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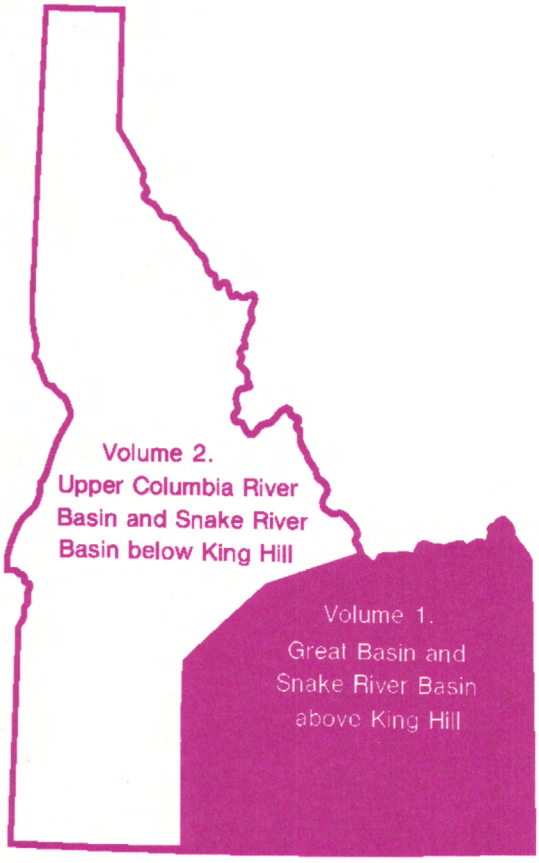
Volume 1. Great Basin and Snake River Basin above King Hill

Water-Data Report ID-99-1



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



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

CALENDAR FOR WATER YEAR 1999

1998

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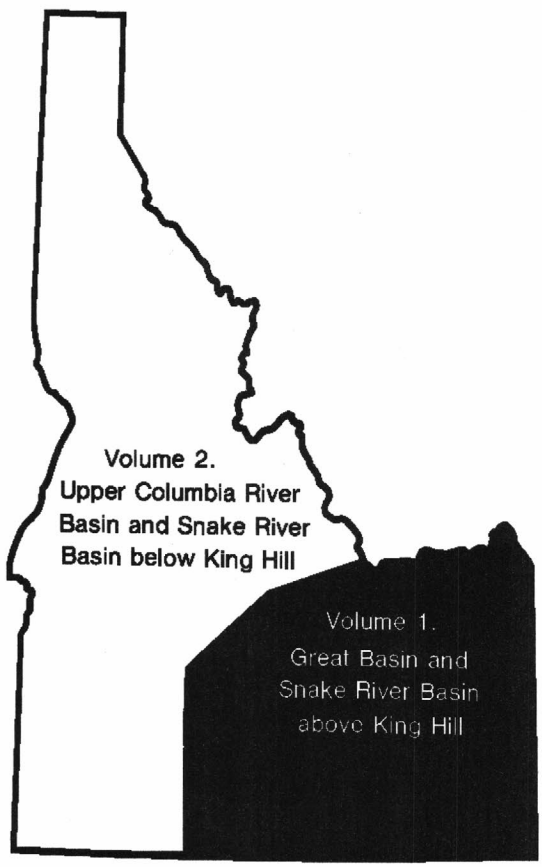
U.S. Department of the Interior
U.S. Geological Survey

Water Resources Data Idaho Water Year 1999

Volume 1. Great Basin and Snake River Basin above King Hill

By T.S. Brennan, A.M. Campbell, A.K. Lehmann, and I. O'Dell

Water-Data Report ID-99-1



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

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY

Dr. Charles G. Groat, Director

For information on the water program in Idaho, write to
District Chief, Water Resources Division
U.S. Geological Survey
230 Collins Road
Boise, Idaho 83702-4520

Preface

This volume of the annual hydrologic data report of Idaho is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface-, ground-, and quality-of-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water 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 dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who revised, edited, illustrated, and assembled the report. In addition to the authors who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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Water resources data for the 1999 water year for Idaho consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; discharge of irrigation diversions; and water levels and water quality of groundwater. The two volumes of this report contain discharge records for 187 stream-gaging stations and 21 irrigation diversions; stage only records for 5 stream-gaging stations; stage only for 6 lakes and reservoirs; contents only for 16 lakes and reservoirs; water-quality for 111 stream-gaging stations and partial record sites, 11 lakes sites, and 426 groundwater wells; and water levels for 565 observation wells. Additional water data were collected at various sites not involved in the systematic data collection program and 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 Idaho, adjacent States, and Canada.

14. SUBJECT TERMS

*Idaho, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperature, Sampling sites, Water levels, Water analyses

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Letter After Station Name Designates Type of Data:
(d) Discharge, (c) Chemical, (m) Microbiological, (p) Precipitation,
(t) Temperature, (e) Elevation or Contents, (s) Sediment, (b) Biology

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FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

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DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Idaho have been discontinued. Daily streamflow or stage records were collected and published for the period or record, expressed in water years, shown for each stations. Information regarding these stations may be obtained from the District Office at U.S. Geological Survey, WRD, 230 Collins Road, Boise, Idaho 83702-4520.

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
The Great Basin			
Bear River Basin			
Thomas Fork near Geneva	10040000	45.3	1940-51
Salt Creek near Geneva	10040500	37.6	1940-51
Thomas Fork near Wyoming-Idaho State Line	10041000	113	1949-92
Thomas Fork above diversions near Geneva	10041500	--	1944-46 [a]
Preuss Creek near Geneva	10042000	3.3	1943-44
Thomas Fork near Raymond	10042500	200	1942-52
Bear River at Harer	10044000	2,839	1913-86
Bear River at Dingle	10044500	2,810	1903-15
Bear Lake Inlet Canal near Dingle	10045000	--	1911-13
Bear River below Stewart Dam near Montpelier	10046500	2,853	1922-92
Montpelier Creek near Montpelier	10047000	28.2	1940-44
Montpelier Creek at Irrigators weir near Montpelier	10047500	49.5	1943-79
Montpelier Creek below diversion near Montpelier	10048500	--	1944-47 [a]
Fish Haven Creek above diversion near Fish Haven	10053500	--	1944-45 [a]
Fish Haven Creek below diversion near Fish Haven	10054500	--	1944-45 [a]
St Charles Creek above diversion near St Charles	10054600	17.4	1944-45 [a], 1962-66
St Charles Creek below diversion near St Charles	10054800	--	1944-45 [a]
Little Creek at St Charles	10055000	--	1944-45 [a]
Bloomington Creek near Bloomington	10058500	22.1	1943-47
Bloomington Creek at Bloomington	10058600	24	1960-86
Paris power canal near Paris	10060000	--	1943-47
Paris Creek near Paris	10060500	18.6	1944-47
Paris Creek below diversion near Paris	10061500	--	1944-45 [a]
Slight Canyon Creek near Paris	10062000	6.81	1943-45
Mill Creek above West Fork near Liberty	10062500	18.4	1945-47
Mill Creek near Liberty	10063000	27.2	1943-47
Mill Creek at Liberty Bridge near Liberty	10064000	--	1945 [a]
Emigration Creek near Liberty	10064700	9.18	1943-44
North Creek below Emigration Creek near Liberty	10065000	26.5	1946-47
North Creek at Liberty Bridge near Liberty	10066000	--	1945 [a]
Georgetown Creek near Georgetown	10069000	22.2	1912-14, 1940-56
West Fork near Georgetown	10069500	--	1944-45 [a]
Georgetown Creek below diversion at Georgetown	10070500	--	1944-47 [a]
Skinner Creek at Nounan	10071500	5.41	1940-45
Staufer Creek near Nounan	10072000	--	1940-44
Staufer Creek at mouth near Georgetown	10072500	--	1946-47 [a]
Eightmile Creek near Soda Springs	10072800	22.6	1961-86
Eightmile Creek below diversion near Soda Springs	10073500	--	1944-47 [a]
Bailey Creek below diversion near Soda Springs	10074500	--	1945 [a]
Soda Creek at Fivemile Meadows near Soda Springs	10076400	51.7	1965-86
Soda Creek at Lau Ranch near Soda Springs	10076500	49	1923-27
Soda Creek near Soda Springs	10077000	--	1913-29
Soda Creek below diversion at Soda Springs	10078000	--	1945-47 [a]
Soda Reservoir at Alexander	10079000	--	1944-88
Bear River below Grace Dam near Grace	10080000	--	1922-87
Williams Creek below diversion near Cleveland	10083000	--	1945 [a]
Treasureton Canal near Swan Lake	10083500	--	1939-46

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
The Great Basin--Continued			
Bear River Basin--Continued			
Cottonwood Creek near Swan Lake	10084000	42.6	1939-46
Cottonwood Creek near Cleveland	10084500	61.7	1938-74
Mink Creek Canal near Mink Creek	10087000	--	1949-52
Mink Creek below Dry Fork near Mink Creek	10087500	19.3	1947-52, 1956-62
Twin Lakes Inlet Canal near Mink Creek	10088000	--	1943-52
Preston-Riverdale & Mink Creek Canal near Mink Creek	10088500	--	1943-52
Mink Creek near Mink Creek	10089500	58.7	1943-52
Bear River near Preston	10090500	4,545	1889-1917, 1944-86
Battle Creek near Treasureton	10091000	23.1	1943-44
Deep Creek near Clifton	10091200	--	1967-78
Bear River near Weston	10091500	--	1920-44
Weston Creek at Weston	10092000	63	1942-44
Cub River near Preston	10093000	31.6	1940-52, 1955-86
Cub River-Worm Creek Canal near Preston	10094000	--	1943-52
Cub River near Franklin	10095400	47.1	1900 [a]
Cub River Canal near Preston	10095500	--	1944-52
Cub River Canal above Sugar Factory near Preston	10095600	--	1962-63
Cub River Canal below Worm Creek near Preston	10095700	--	1962-63
West Branch Cub River Canal near Fairview	10095800	--	1962-63
East Branch Cub River Canal near Lewiston, UT	10059500	--	1962-63
Cub River above Maple Creek near Franklin	10096000	53.7	1940-52
Maple Creek near Franklin	10096500	21.2	1946-52
Maple Creek below diversion near Franklin	10097500	--	1944-45 [a]
Worm Creek near Preston	10098500	11	1943-46
Worm Creek above treatment plant near Preston	10098600	24	1962-63
Worm Creek below Sugar Factory near Preston	10098700	24	1962-63
Worm Creek near Fairview	10098800	46	1962-63
Little Malad River above Elkhorn Reservoir near Malad City	10119000	120	1911-13, 1932, 1941-69
Little Malad River below Elkhorn Reservoir near Malad City	10120000	153	1941-53
Little Malad River below Sand Ridge Dam Site near Malad	10120500	223	1946-51
Devil Creek above Campbell Creek near Malad	10122500	12.6	1931-61
Devil Creek above Evans dividers near Malad	10123000	36	1941-44, 1946-53
Devil Creek near Malad City	10123500	39	1931-41
Deep Creek above Third Creek near Malad	10124000	3.9	1932
Third Creek near Malad	10124500	13	1932
Deep Creek below First Creek near Malad	10125000	32	1932-48
Malad River at Woodruff	10125500	485	1939-83
Columbia River Basin			
Snake River Basin			
Snake River at south boundary Yellowstone Nat'l Park	13010000	485	1913-25
Pilgrim Creek near Moran, WY	13010450	--	1997
Buffalo Fork near Moran, WY	13012000	378	1917-18, 1945-60
Cottonwood Creek near Teton, WY	13013000	72.3	1917-18
Spring Creek near Teton, WY	13013500	--	1917-18
Spring Creek near Zenith, WY	13014000	--	1917-18
Gros Ventre River at Kelly, WY	13014500	622	1918, 1945-58
Spring Creek at Zenith, WY	13015500	--	1917-18
Spring Creek at West Gros Ventre Butte, WY	13016000	--	1918
Snake River near Wilson, WY	13016100	2,342	1973-76
Fish Creek near Wilson, WY	13016500	87.2	1917-18
Mosquito Creek near Wilson, WY	13017000	24.2	1917-18

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
Columbia River Basin--Continued			
Snake River Basin--Continued			
Big Spring Creek near Cheney, WY	13017500	--	1918
Flat Creek near Jackson, WY	13018000	40.1	1933-42, 1989-93
Flat Creek below Cache Creek near Jackson, WY	13018350	129	1989-96
Flat Creek near Cheney, WY	13018500	142	1917-18, 1989-93
Horse Creek near Cheney, WY	13019000	37.9	1917-18
Little Granite Creek at mouth near Bondurant, WY	13019438	21	1982-93
Hoback River near Jackson, WY	13019500	564	1917-18, 1945-58
Dog Creek near Cheney, WY	13020500	14.1	1917-18
Baily Creek near Alpine, WY	13021500	15.9	1917-18
Wolf Creek near Alpine, WY	13022000	13.1	1917-18
Snake River below Greys River at Alpine, WY	13023500	3,940	1945-54
Crow Creek near Fairview, WY	13025500	115	1946-49, 1961-67
Stump Creek near Auburn, WY	13026000	103	1946-49
Salt River near Alpine, WY	13028000	878	1918
Salt River at Wyoming-Idaho Stateline	13028500	890	1934-55
Snake River at Alpine, WY	13029000	4,841	1916-18
McCoy Creek above Reservoir near Alpine, WY	13029500	108	1917-18, 1934, 1954-61
Indian Creek above Reservoir near Alpine, WY	13030000	36.8	1917-18, 1954-61
Elk Creek above Reservoir near Irwin	13030500	59.2	1917-18, 1953-61
Snake River at Calamity Point near Irwin	13031500	5,124	1934-37, 1939-41
Bear Creek above Reservoir near Irwin	13032000	71.1	1917-18, 1934-36, 1953-72
Palisades Reservoir near Irwin	13032450	5,208	1956-79, 1985-96
Rainy Creek near Swan Valley	13034500	56.3	1917-18, 1934-36
Pine Creek near Swan Valley	13035500	63.2	1917-18, 1934-36
Snake River at Dry Canyon near Swan Valley	13036000	5,616	1934-36
Burns Creek near Chokecherry	13036500	21.1	1917, 1935-36
Snake River below Burns Creek near Chokecherry	13037000	5,659	1935-36
Dry Bed Canal near Lewisville	13038380	--	1977-82, 1985-88
Henrys Fork near Big Springs	13040000	166	1932
Big Springs Creek at Big Springs	13040500	--	1924-25
Henrys Fork at Coffee Pot Rapids near Island Park	13041000	261	1935-41
Sheridan Creek near Island Park	13041500	--	1935-41
Island Park Reservoir near Island Park	13042000	481	1939-79, 1984-96
Buffalo River at Island Park	13043000	36.7	1935-41
Henrys Fork at De Winars Ranch near Island Park	13043500	523	1935-41
Henrys Fork at Warm River	13044000	656	1911-15, 1918-52
Warm River at Warm River	13044500	178	1912-15, 1918-33
Wyoming Creek near Squirrel	13045000	4.7	1932
Robinson Creek at Warm River	13045500	129	1912-15, 1918-33
Henrys Fork near Ashton	13046000	1,040	1891, 1902-09, 1920-81
Grassy Lake near Moran, WY	13046500	10.4	1940-79
Diversions from Falls River above gage near Squirrel	13047000	--	1919-77
North Fork Squirrel Creek near Squirrel	13047800	2.4	1962-68
Squirrel Creek near Squirrel	13048000	17	1932
Falls River in Canyon	13048500	510	1890-92
Div from Fall River between Squirrel and Chester gages	13049000	--	1919-77
Div from Henrys Fork between Ashton and St Anthony gages	13050000	--	1919-77
Independent Canal Drain near Rexburg	13050543	--	1988-89
Trail Creek near Victor	13051000	47.6	1946-53
Packsaddle Creek near Tetonia	13053000	6.8	1946-50

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
Columbia River Basin--Continued			
Snake River Basin--Continued			
Teton Creek near Driggs	13051500	33.8	1946-52
Teton River near Driggs	13052000	303	1935-40
Horseshoe Creek near Driggs	13052500	11.7	1946-52
Spring Creek near Tetonia	13053500	--	1946-50
Teton River near Tetonia	13054000	471	1930-33, 1934-37, 1940-57
Teton River below Badger Creek near Newdale	13054200	547	1974-78
Bitch Creek near Lamont	13054300	80.9	1975-78
Canyon Creek near Newdale	13054500	68	1920-25, 1939
Canyon Creek at Highway 33 near Newdale	13054600	79.9	1975-78
Teton Reservoir near Newdale	13054800	851	1976
Teton River below Teton Dam near Newdale	13054805	851	1975-78
North Fork Teton River at auxillary bridge near Teton	13055210	--	1977-78
North Fork Teton River at Powerline Road near Teton	13055230	--	1977-78
North Fork Teton River at bridge near Sugar City	13055250	--	1977-78
North Fork Teton River at Highway bridge near Salem	13055270	--	1977-78
North Fork Teton River at last bridge near Salem	13055300	--	1977-78
Moody Creek near Rexburg	13055319	--	1980-83, 1984-86
Div from Teton River between St. Anthony gage and mouth	13055500	--	1919-77
Div from Henrys Fork between St. Anthony and Rexburg	13056000	--	1919-77
Texas Slough near Rexburg	13056600	--	1985-89
Snake River near Menan	13057000	--	1923-24
Spring Creek near Menan	13057090	--	1985-88
Snake River near Lewisville	13057150	9,100	1978-83
Snake River near Idaho Falls	13057160	--	1983-88
Grays Lake Div to Blackfoot River Basin near Wayan	13057300	--	1927-50, 1966-70
Grays Lake near Wayan	13057400	137	1966-74, 1985-87
Grays Lake Outlet near Herman	13057500	147	1916-25, 1966-70
Willow Creek near Iona	13058500	--	1916-25
Snake River near Idaho Falls	13059000	9,760	1889-95
Div from Snake River between Heise and Shelley gages	13059500	--	1919-77
Idaho Canal near Shelley	13060500	--	1912, 1914-18
Idaho Canal near Firth	13061000	--	1914-18
Great Western Canal Waste near Woodville	13061300	--	1985-88
Snake River near Firth	13061500	9,890	1915
Aberdeen-Springfield Canal near Springfield	13061623	--	1980-82
Snake River at Porterville Bridge near Blackfoot	13062000	9,940	1916-23
Snake River below Blackfoot Bridge near Blackfoot	13062504	9,950	1924-32
Blackfoot River above Reservoir near Henry	13063000	350	1914-25, 1967-83
Little Blackfoot River at Henry	13063500	38.8	1914-25
Meadow Creek near Henry	13064500	75.2	1914-25
Blackfoot Reservoir near Henry	13065000	581	1912-25, 1929-89
Blackfoot River near Henry	13065500	583	1909-25
Wolverine Creek near Goshen	13065940	--	1980-83, 1984-86
Blackfoot River near Presto	13066500	926	1903-10
Sand Creek near Firth	13067000	--	1917-24
Fort Hall Upper Canal near Blackfoot	13067500	--	1912-24
Fort Hall Lower Canal near Blackfoot	13068000	--	1912-24
Div from Snake River between Shelley and Blackfoot gages	13069000	--	1919-77
Crystal Waste near Springfield	13069532	--	1985-88
Danielson Creek near Springfield	13069540	--	1980-81, 1985-89
Aberdeen Wasteway near Aberdeen	13069565	--	1985-86, 1987-88

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
Columbia River Basin--Continued			
Snake River Basin--Continued			
Portneuf River above Reservoir near Chesterfield	13070000	68	1912-14
Portneuf Reservoir near Chesterfield	13070300	100	1980-88
Portneuf diversion channel near Chesterfield	13070500	--	1914
Portneuf River below Reservoir near Chesterfield	13071000	92	1912-15
Topons Creek near Chesterfield	13071500	45.7	1912-14
Portneuf River near Pebble	13072000	260	1912-13, 1969-77
Pebble Creek near Pebble	13072500	27.2	1911-14
Portneuf River at McCammon	13073500	455	1896
Birch Creek near Downey	13074000	6.56	1912-14, 1938-49
Rapid Creek near Inkom	13075100	57.2	1980-82, 1984-86
South Fork Pocatello Creek near Pocatello	13075700	4.3	1961-70
Fort Hall Michaud Canal near Pocatello	13075900	--	1964-84
Portneuf River at Tyhee	13075910	--	1927-28, 1932-78 1984, 1985-94
Ross Fork near Fort Hall	13075960	--	1985-94
Spring Creek at Bronco Road near Fort Hall	13075981	--	1985-87
West Fork Creek near Arbon	1307599660	15	1988-90
Sawmill Creek near Arbon	1307599910	11	1988-90
Bannock Creek below Moonshine Creek near Pocatello	13076000	230	1955-58
Rattlesnake Creek near Pocatello	13076100	78	1988-90
Bannock Creek below Rattlesnake Creek near Pauline	13076110	313	1988-90
Bannock Creek near Pocatello	13076200	--	1985-94
Michaud Canal at American Falls	13076400	--	1958-84
Rock Creek near Rockland	13077500	--	1955-60
East Fork Rock Creek near Rockland	13077600	13.7	1961-64, 1978-81
Rock Creek near American Falls	13077650	320	1979-81, 1985-90
Bonanza Lake near American Falls	13077657	--	1983-84
George Creek near Yost, UT	13077700	7.84	1959-89
Raft River below Onemile Creek near Malta	13078205	417	1976-84
Cassia Creek above Stinson Creek near Elba	13079100	7.25	1965-75
Cassia Creek near Elba	13079200	84	1957-63
Cassia Creek near Conant	13079500	104	1910-12
Sublett Creek at Sublett Campground near Sublett	13079600	24	1966-67
Raft River near mouth at Yale	13079901	1,510	1985-89
North Side Minidoka Canal near Minidoka	13080000	--	1908-78
South Side Minidoka Canal near Minidoka	13080500	--	1908-78
Lake Walcott near Minidoka	13081000	15,700	1909-79, 1984-96
Snake River at Highway 25 bridge near Rupert	13082035	--	1982-83
F-Waste Drain near Declo	13082060	--	1985-88
Marsh Creek near Albion	13082300	86	1966-75
Marsh Creek near Declo	13082320	--	1985-88
Goose Creek near Oakley	13084000	670	1909-11
Birch Creek near Oakley	13084500	37	1912-15
Minidoka North Side Pump Canal near Burley	13085500	--	1957-78
P A Lateral near Milner	13085800	--	1915-78
Milner Low Lift Canal near Milner	13086000	--	1919-78
Gooding Canal at Milner	13086500	--	1929-78
North Side Twin Falls Canal at Milner	13087000	--	1909-78
South Side Twin Falls Canal at Milner	13087500	--	1909-78
Dry Creek near Artesian City	13088400	--	1993-97
Big Cottonwood Creek near Oakley	13088500	27	1910-15
Dry Creek near Artesian City	13089000	42	1912

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
Columbia River Basin--Continued			
Snake River Basin--Continued			
Fish Hatchery Waste near Twin Falls	13090370	--	1985-89
Snake River near Twin Falls	13090500	--	1911-17, 1919-47
Blue Lakes Springs Outlet near Twin Falls	13091500	--	1917-21
Jerome Golf Course Drain near Jerome	13091733	--	1987-90
Rock Creek near Rock Creek	13092000	80	1909-13, 1939, 1944-75
McMullen Creek near Rock Creek	13092500	--	1910-12
Rock Creek near Twin Falls	13093000	277	1922-47, 1983-90
Rock Creek near mouth near Twin Falls	13093095	300	1975-83
Sonnickson Butte Drain near Jerome	13093150	--	1988-90
Cedar Draw near Filer	13093500	--	1955-58, 1980-81
Cedar Draw near Filer	13093550	--	1985-91
Niagara Springs near Buhl	13093700	--	1959-73
Clear Lakes Spring at Outlet near Buhl	13094500	--	1917-21
Mud Creek near Buhl	13094700	--	1985-90
Deep Creek near Buhl	13095000	--	1955-58, 1980-82, 1985-86
Deep Creek at mouth near Buhl	13095050	--	1985-90
South Coulee near Wendell	13095360	--	1988-90
Salmon Falls Creek above Upper Vineyard Ditch near Contact, NV	13096000	439	1914-15, 1949-62
Upper Vineyard Ditch near Contact, NV	13096500	--	1914
Salmon Falls Creek below Upper Vineyard Ditch near Contact, NV	13097000	446	1914
Lower Vineyard Ditch near Contact, NV	13097500	--	1914
Jakes Creek above Hubbard Ranch near Contact, NV	13098000	51	1914
Willow Creek near Contact, NV	13098500	193	1914
Jakes Creek below Hubbard Ranch near Contact, NV	13099000	278	1914
Birds Nest Ditch near Contact, NV	13099500	--	1914
Harrel Ditch near Contact, NV	13100000	--	1914
High Line Canal near San Jacinto, NV	13100500	--	1914
Salmon Falls Creek below High Line Canal near San Jacinto, NV	13101000	915	1914
San Jacinto Ditch near San Jacinto, NV	13101500	--	1914
Island ditch near San Jacinto, NV	13102000	--	1914
West Boar's Nest Ditch near San Jacinto, NV	13102500	--	1914
Trout Creek near San Jacinto, NV	13103000	106	1914
East Boar's Nest ditch near San Jacinto, NV	13103500	--	1914
Shoshone Creek near San Jacinto, NV	13104000	309	1914-15
North Side Ditch near San Jacinto, NV	13104500	--	1914
Salmon Falls Creek near Twin Falls	13105500	1,560	1909-10
Cedar Creek above Reservoir near Roseworth	13106600	36	1961-68
House Creek near Roseworth	13106650	40	1961-68
Cedar Creek Reservoir near Roseworth	13106700	128	1957-65, 1985-87
Cedar Creek near Roseworth	13107000	130	1909-15, 1916, 1957-67, 1970
Devil Creek near Three Creek	13107500	11.5	1913-14, 1916
Salmon Falls Creek near Buhl	13108000	2,100	1955-58, 1961
Camas Ck at 18-Mile Shearing Cl near Kilgore	13108500	210	1937-53, 1969-73
Camas Creek at Red Road near Kilgore	13108900	262	1985-92
Camas Creek near Kilgore	13109000	215	1921-27, 1930
Camas Creek above Lone Tree Reservoir near Kilgore	13109600	--	1980, 1983-89, 1993, 1995
Camas Creek below Lone Tree Reservoir near Kilgore	13111000	220	1930
Camas Creek near Camas	13111500	285	1921-26
Beaver Creek near Spencer	13112500	--	1939-40

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
Columbia River Basin--Continued			
Snake River Basin--Continued			
Beaver Creek at Spencer	13113000	120	1941-53, 1969-82, 1985-93
Beaver Creek at Dubois	13113500	220	1921-73, 1983, 1985-87
Beaver Creek at Camas	13114000	510	1921-82, 1984-86, 1988-91
Camas Creek near Hamer	13114500	880	1912-13
Medicine Lodge Creek near Argora	13115500	160	1939-43
Medicine Lodge Creek at Ellis Ranch near Argora	13116000	165	1941-69
Birch Creek near Reno	13117000	320	1911-12, 1921-23, 1951-63
Birch Creek at Blue Dome Inn near Reno	13117020	380	1967-81, 1985-91
Birch Creek at Eight-mile Canyon Road near Reno	13117030	400	1967-81, 1984-88
Sawmill Creek near Goldburg	13117300	74.3	1960-73
Sawmill Creek above Summit Creek near Clyde	13117360	107	1982-89
Little Lost River near Clyde	13117500	275	1910-13
Little Lost River at Raymond Ranch near Howe	13118000	305	1921-24
Wet Creek at Clyde School near Howe	13118500	115	1921-22
Little Lost River near Howe	13119000	703	1921-82, 1985-91
Blaine County Investment Co. Canal near Howe	13119500	--	1924-78
Big Lost River below Chilly Canal near Chilly	13121000	493	1921-22
Big Lost River at Chilly Bridge near Chilly	13121500	502	1920
Thousand Springs Creek near Chilly	13122000	145	1912-15, 1920-22
Big Lost River below Chilly Sinks near Chilly	13122500	--	1921-22
Big Lost River (back channel) below Chilly Sinks near Chilly	13123000	--	1921-22
Big Lost River (east channel) abv Mackay Reservoir near Mackay	13123500	--	1919-59
Big Lost River (west channel) abv Mackay Reservoir near Mackay	13124000	--	1919-60
Warm Springs Creek (east channel) near Mackay	13124500	--	1919-60
Warm Springs Creek (west channel) near Mackay	13125000	--	1919-60
Surface Inflow to Mackay Reservoir near Mackay	13125500	778	1920-60
Sharp Ditch near Mackay	13126500	--	1912-15, 1919-69
Streeter Ditch near Mackay	13127500	--	1913-15
Cedar Creek above Forks near Mackay	13128000	4.1	1912-13
Cedar Creek below Forks near Mackay	13128500	6.1	1912-13
Lower Cedar Creek above diversions near Mackay	13128900	8.26	1966-73, 1980-84
Clark Ditch near Mackay	13129000	--	1920-22
Cedar Creek near Mackay	13129500	8.4	1920-22
Alder Creek below South Fork near Mackay	13129800	27.6	1966-68
Alder Creek near Mackay	13130000	37	1920-22
Big Lost River at Leslie	13130500	1,020	1919-23
Antelope Creek above Willow Creek near Darlington	13130900	93.4	1966-74
Antelope Creek near Darlington	13131000	210	1913-16, 1920-22
Pass Creek near Leslie	13131500	23.6	1920-22
Big Lost River near Moore	13132000	1,310	1919-26
Big Lost River Playa No. 1 near Howe, ID	13132580	--	1984-96
Brailsford Ditch near Hagerman	13133500	--	1951-60
Riley Creek below Lewis Spring near Hagerman	13134000	--	1951-60
Snake River near Hagerman	13134500	--	1912-41
Bell Rapids Canal near Hagerman	13134560	--	1985-86
Bell Rapids Mutual Irrigation Co. Pumping Plant near Hagerman	1313457010	--	1988-97
Big Wood River near Ketchum	13135500	137	1948-72
Big Wood River at Ketchum	13136000	240	1920-21
Warm Springs Creek at Guyer Hot Springs near Ketchum	13136500	96	1941-58

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (mi^2)	Period of record (water year)
Columbia River Basin--Continued			
Snake River Basin--Continued			
Warm Springs Creek near Ketchum	13137000	97	1920-21
Trail Creek at Ketchum	13137500	67	1920-21
East Fork Big Wood River at Gimlet	13138000	84	1920-21
Big Wood River at Gimlet	13138500	438	1904-05, 1920-21
Big Wood Slough at Hailey	13139000	--	1915-74
Big Wood River at Glendale Bridge near Bellevue	13140500	665	1920-21
Mormon Reservoir near Fairfield	13141300	60	1985-87
Lincoln Canal near Richfield	13143000	--	1925-48
Lincoln Canal near Shoshone	13143500	--	1925-48
Big Wood River above Gooding Canal near Shoshone	13144000	1,770	1921-25, 1927, 1932-33, 1938
Big Wood River below Gooding Canal near Shoshone	13144500	1,780	1911-28, 1930, 1932-33, 1938
Big Wood River near Shoshone	13145000	1,860	1908-13
Big Wood River above Thorn Creek near Gooding	13145500	1,940	1926-27
Thorn Creek Spillway near Gooding	13146000	--	1928-48
Big Wood River at Gooding	13146500	2,190	1921-48
Dry Creek near Blanche	13147000	34	1911-14
Little Wood River at Campbell Ranch near Carey	13148000	267	1920-26, 1937-38, 1941-43, 1944-58
Fish Creek above Fish Creek Dam near Carey	13149000	38	1920-39
West Fork Fish Creek near Carey	13149500	13.8	1920-29
Fish Creek Reservoir near Carey	13149700	63	1985-87
Fish Creek near Carey	13150000	62.9	1919-20, 1923-39
Silver Creek near Picabo	13150500	88	1920-62
Little Wood River near Richfield	13151000	570	1911-73
Little Wood River at Shoshone	13151500	620	1922-60
Little Wood River at Toponis	13152000	680	1896-99
W-Drain near Tuttle	13152895	--	1987-90
King Hill Canal near Hagerman	13153000	--	1930-78
King Hill Canal (Wiley Site) near Bliss	13153773	--	1985-88
King Hill Canal (Black Mesa Site) near King Hill	13153779	--	1986-90
King Hill Canal (Site No. 1) near King Hill	13153783	--	1985-89
Clover Creek below Calf Creek near Bliss	13154000	140	1938-43, 1957-62
Pioneer Reservoir near Bliss	13154120	--	1985-87
Clover Creek near King Hill	13154400	265	1985-93

a Published in reports of Bear River Hydrologic Data (U.S. Geological Survey Open-file Report).

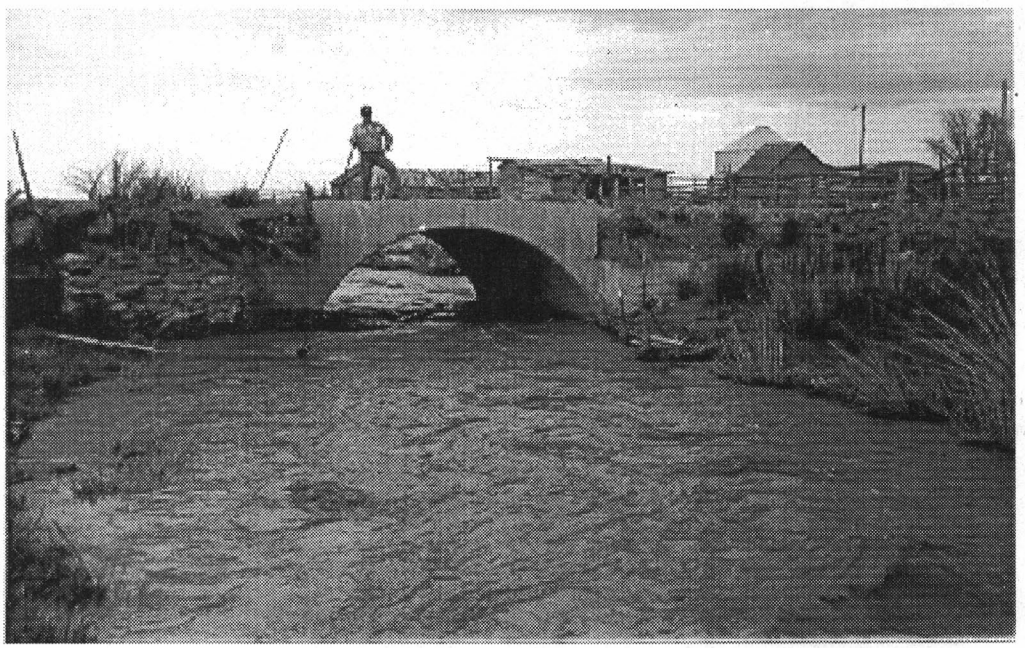
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following stations were discontinued as continuous-record surface-water-quality stations prior to the current year. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the record shown for each station. Information regarding these stations may be obtained from the District Office at U.S. Geological Survey, WRD, 230 Collins Road, Boise, Idaho 83702-4520.

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water year)
	The Great Basin			
	Bear River Basin			
Bear River at Idaho-Utah State line	10092700	4,881	Temp	1996
	Columbia River Basin			
	Snake River Basin			
Little Granite Creek at mouth near Bondurant, WY	13019438	21	S.C.	1982-83
			Sed.	1982-83
Snake River above Reservoir near Alpine, WY	13022500	3,465	Temp.	1966, 1974-77, 1979
			S.C.	1966, 1974-77
Greys River above Reservoir near Alpine, WY	13023000	448	Temp.	1977-78, 1979
Salt River above Reservoir near Etna, WY	13027500	829	Temp.	1966, 1972-74, 1977-79
Bear Creek above Reservoir near Irwin	13032000	77	Temp.	1977-78, 1979
Snake River near Irwin	13032500	5,225	Temp.	1977-79
Snake River near Heise	13037500	5,752	Temp.	1972-76, 1977, 1978, 1979, 1996
Boundary Creek near Bechler Ranger Station, Yellowstone Nat'l Park, WY	13046680	86.9	Temp.	1984, 1985, 1986
Falls River near Squirrel	13047500	326	Temp., S.C.	1984-85
North Fork Teton River at Teton	13055198	--	Sed.	1977-78
North Fork Teton River at auxiliary bridge site	13055210	--	Sed.	1977-78
North Fork Teton River at Powerline Road	13055230	--	Sed.	1977-78
North Fork Teton River at Sugar Detour Bridge	13055250	--	Sed.	1977-78
North Fork Teton River at Salem Highway Bridge	13055270	--	Sed.	1977-78
North Fork Teton River at last bridge	13055300	--	Sed.	1977-78
Henrys Fork near Rexburg	13056500	2,920	Temp.	1957, 1958-64, 1995-96, 1998
Willow Creek near Ririe	13058000	627	Temp.	1974-79, 1996
Snake River near Blackfoot	13069500	11,310	Temp.	1994, 1996, 1998
Portneuf River at Topaz	13073000	570	Temp.	1993-94, 1996
Marsh Creek near McCammon	13075000	353	Temp.	1996, 1998
Portneuf River at Pocatello	13075500	1,250	Temp.	1996, 1998
Snake River at Neeley	13077000	13,600	Temp.	1977-79
Snake River near Minidoka	13081500	15,700	Temp.	1993-94, 1996, 1998
Milner Lake at Milner Dam	13087900	17,180	Temp., S.C., pH, D.O.	1968-71
				1968-71
Blue Lake Springs near Twin Falls	13091000	--	Temp.	1994, 1996
Rock Creek above Highway 30/93 at Twin Falls	13092747	--	Temp.	1993-94, 1996-98
			S.C.	1996-94
Salmon Falls Creek near Hagerman	13108150	2,120	Temp.	1998
Camas Creek at Red Road near Kilgore	13108900	262	Temp.	1997
Beaver Creek at Spencer	13113000	120	Temp.	1997
Birch Creek near Kaufman Guard Station nr Lone Pine	13116970	--	Temp.	1977-78
Birch Creek at Kaufman Guard Station nr Lone Pine	13116980	--	Temp.	1977-78
Birch Creek at Highway 28 near Lone Pine	13116990	--	Temp.	1977-78
Birch Creek at Eightmile Canyon Road near Reno	13117030	400	Temp.	1986

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water year)
Columbia River Basin--Continued				
Snake River Basin--Continued				
Big Spring Creek (left channel) at head near Clyde	13118894	--	Temp.	1978
Big Spring Creek (left channel) near Clyde	13118895	--	Temp.	1978
Big Lost River at Howell Ranch, near Chilly	13120500	450	Temp.	1993, 1996
Sand Spring Creek below ponds near Hagerman	13132600	--	Temp.	1978
Big Wood River at Hailey	13139500	640	Temp.	1977, 1978
Big Wood River near Bellevue	13141000	824	Temp.	1997
Snake River at King Hill	13154500	35,800	Temp.	1951-67, 1969-80 1993-96
			S.C.	1952-80



Raft River near Bridge, Idaho. (1984)

INTRODUCTION

The Water Resource Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Idaho each year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding to the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Idaho."

This report series includes records of stage, discharge, and water quality of streams; stage, contents, and water quality of lake and reservoirs; and water-level and quality of ground-water wells. The two volumes of this report contain discharge records for 187 stream-gaging stations and 21 irrigation diversions; stage only records for 5 stream-gaging stations; stage only for 6 lakes and reservoirs; contents only for 16 lakes and reservoirs; water quality for 111 stream-gaging stations and partial record sites, 11 lake sites, and 426 wells; and water levels for 565 observation wells. Additional water data were collected at various sites, not involved in the systematic data collection program, and 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 Idaho, adjacent States, and Canada.

Records of discharge or stage of streams, and contents 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 September 30, 1960, these Water-Supply Papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment 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 from 1935 to 1974 in a series of Water-Supply Papers entitled, "Ground-Water Levels in the United States". Water-Supply Papers may be consulted in the libraries of the principal cities in the United States or may be purchased from the U.S. Geological Survey, Information Services, Open-File Reports Section, Box 25286, Federal Center, Denver, CO 80225 (1-888-275-8747).

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on the State boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water were published as an official Survey report on a State boundary basis. These official Survey 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 report is identified as "U.S. Geological Survey Water-Data Report ID-99-1." Water-data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161, telephone (703)-605-6000.

Additional information, including current prices, for ordering specific reports may be obtained from the District Office at U.S. Geological Survey, WRD, 230 Collins Road, Boise, Idaho 83702-4520, or by telephone (208) 387-1300

Hydrologic data on the World Wide Web may be accessed at: http://idaho.usgs.gov/

COOPERATION

The U.S. Geological Survey and organizations of the State of Idaho have had cooperative agreements for the systematic collection of streamflow records since 1909, for ground-water levels since 1946, and for water-quality records since 1965. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Idaho Department of Water Resources, Karl Dreher, Director
Idaho Department of Fish and Game, Rodney Sando, Director
Idaho Department of Health and Welfare, Carl Kurtz, Director
Idaho Division of Environmental Quality, Steven Allred, Administrator
Bear River Commission, Kenneth T. Wright, Chairman
Nez Perce Tribe, Lapwai, Sam N. Penney, Chairman

Assistance in the form of funds or services was given by the U.S. Bureau of Reclamation, Department of the Interior, in collection of records for 15 gaging stations and 77 observation wells; U.S. Army Corps of Engineers, in collecting records for 23 gaging stations and 5 water-quality stations; U.S. Department of Energy, in collecting records for 6 gaging stations; U.S. Environmental Protection Agency, in collecting records for 10 gaging stations and 5 water-quality stations ; U.S. Department of Agriculture, in collecting records at 2 gaging stations; U.S. Department of State, in collecting records for 3 gaging stations; Bonneville Power Administration, in collecting records for 5 gaging stations; Bureau of Indian Affairs, in collecting records for 5 gaging stations; Shoshone County, Idaho, in collecting records for 1 gaging station.

The following organizations aided in collecting records:

Water Districts 01, 31, 32, 33, 34, 37, 37N, 63, and 65K; Fremont-Madison Irrigation Co.:
Idaho Power Co.; Marysville Hydro-Partners; Oakley Canal Co.; City of Palouse, Washington;
Salmon River Canal Co.; Washington Water Power Co.; and Utah Power & Light Co.

Organizations that supplied data are acknowledged in station manuscript headings.

SUMMARY OF HYDROLOGIC CONDITIONS

Idaho hydrology is as diverse and complex as the topography that controls it. The southeastern corner of the State lies within the Great Basin and contributes inflow to the Great Salt Lake in Utah. Precipitation-runoff conditions in this area are greatly influenced by the Wasatch Range, which extends northward into Idaho from Utah and intercepts, or diverts to the north, the normal west-to-east storm track. Mountain ranges and intervening valleys divide the Great Basin on the southeast from the Snake River basin on the north. The Snake River flows into Idaho from Wyoming, where the Continental Divide forms the northern and eastern boundaries of the basin. In Idaho, the Snake River flows westward near the southern edge of the Snake River Plain, which extends the full east-west width of the State. Streams flowing southward from the mountains onto the eastern part of the plain infiltrate the surface; some completely disappear as they recharge the Snake River Plain aquifer. Water from the aquifer discharges into the Snake River from numerous large and small springs along a 30-mile reach above King Hill. North of the Snake River Plain lie a succession of north-south trending mountain ranges that extend into Canada. In this mountainous region, streams are deeply incised, valleys are narrow, and topographic relief commonly exceeds 5,000 feet.

Precipitation, influenced by topography, varies widely throughout the State. It ranges from about 10 inches per year on most of the Snake River Plain to 20 or 30 inches per year in the southeastern highlands. Precipitation commonly is 40 or 50 inches per year over most of the central mountains but may exceed 60 inches per year in some areas. In the central and southern parts of the State, precipitation is normally seasonal with a winter maximum occurring mostly as snow.

Most streams throughout the State reach their annual peaks during spring snowmelt, but warm, wet Pacific storm fronts bringing heavy rains and thawing conditions to Idaho may cause extreme floods during winter months as well. On small drainages, violent thunderstorms frequently cause annual peak flows during summer months.

Streamflow and Reservoirs

The 1999 water year began with a typically dry October. November brought precipitation amounts 30-50% above normal to most of the state except for the Bear River basin which remained below normal. December was very dry and well below normal for the entire state. Snowfall for January was slightly above average and was followed by a surge of moisture in February, exceeding 150% of normal for most of the state, and above 200% in the central to west-central basins. The pattern was significantly below normal in March except in the Panhandle and Clearwater basins. April and May were dry in northern Idaho while the southern half of the state averaged over 135% for the period. The ranges of monthly precipitation during the 1999 water year for the major drainage basins in Idaho, as compared with the 30-year average from the Natural Resources Conservation Service, are listed in the following table:

	Percent of Normal Precipitation (30-year average)											
Drainage Basin	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Panhandle	59	144	48	110	184	99	53	70	81	59	96	19
Clearwater River	66	160	58	103	186	90	50	75	102	38	105	38
Salmon River	40	148	49	96	204	62	80	99	90	13	84	18
Boise, Weiser, Payette Rivers	25	133	40	104	228	60	62	90	96	6	52	2
Wood, Lost Rivers	39	139	28	109	238	36	115	133	84	13	96	12
Upper Snake	70	120	46	108	170	65	124	152	134	52	127	52
Southside Snake	48	91	41	137	128	58	142	137	93	14	76	8
Bear River	96	77	44	110	165	75	150	148	128	86	121	51

Streamflow during the water year was below average in the Clearwater basin, while flows in the Panhandle, Coeur d'Alene, Salmon, Boise, Weiser, Payette, Wood, and Lost River basins were near to slightly above average. Several basins, inlcuding the Upper Snake, Southside Snake, and Bear River basins were well above normal for the year. Figures 5-7 (pages 38-40) show locations of streamflow gaging stations throughout the state.

Irrigation supplies in the upper Snake River reservoirs began and ended the water year with very good carryover. Storage at the end of September 1999 was down slightly from September 1998, and was at 130% of the 10-year average.

Figure 1 (page 4) shows flow volume and annual distribution of discharge compared with median discharge based on a 30-year period at two representative gaging stations in southeast Idaho.

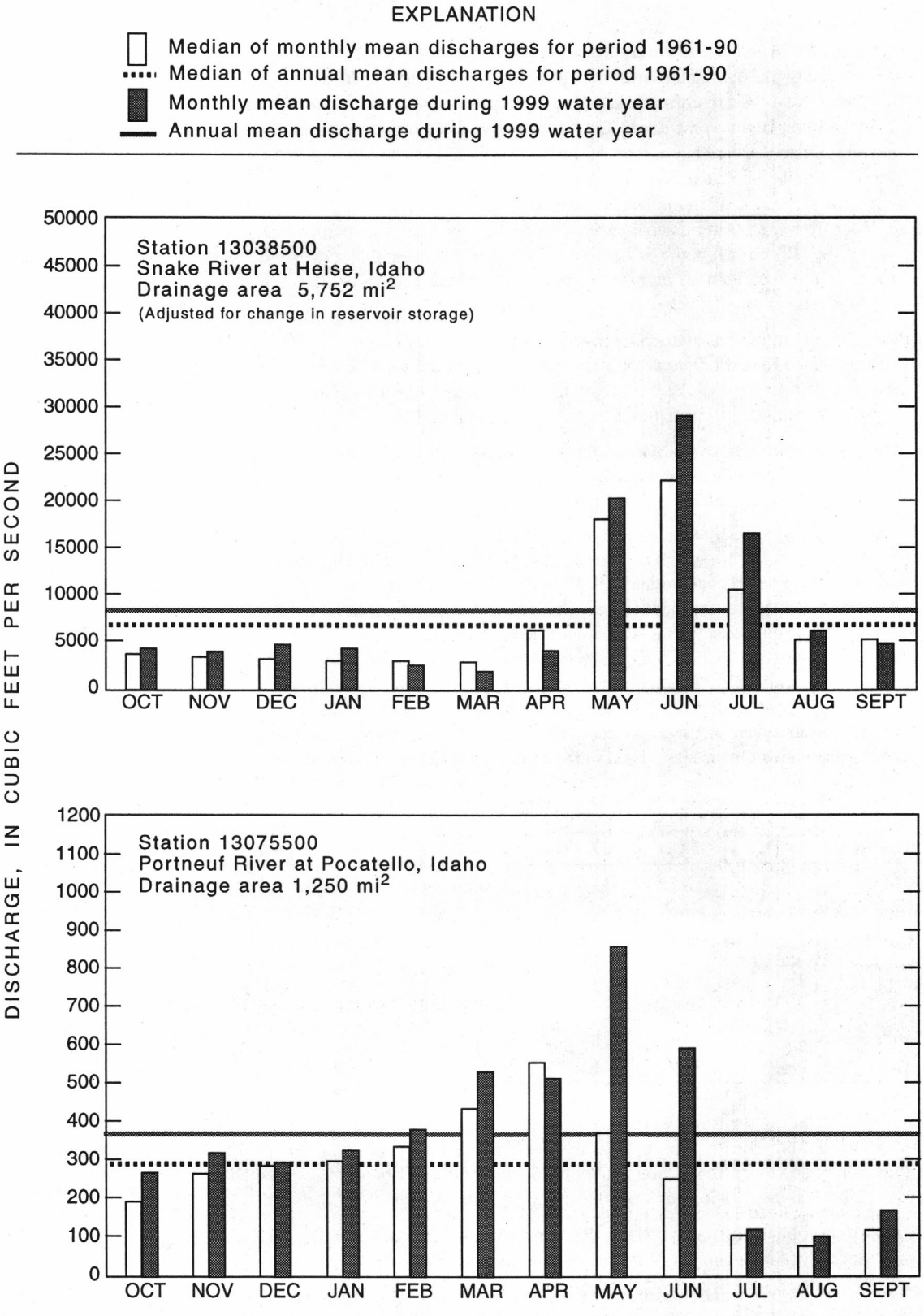


Figure 1. Discharge during 1999 water year compared with median discharge for period 1961-90 for two representative gaging stations.

Table 1 shows total reservoir storage on September 30, 1999, compared with data for September 30, 1998 and with the 1989-98 10-year average for a representative group of reservoirs.

Table 1. Comparative reservoir storage data
(Values in acre-feet)

Reservoir group	September 1998	September 1999	1989-98 average
Nine major irrigation reservoirs in upper Snake River basin	2,828,000	2,668,000	2,039,000

Ground Water

Ground water is used principally for irrigated agriculture. The expansion of agriculture in Idaho has resulted in heavy pumpage in some ground-water basins. Increased withdrawals for irrigation have prompted the Idaho Department of Water Resources to designate eight Critical Ground-Water Areas and six Ground-Water Management Areas.

"Critical ground-water basin is defined as any ground-water basin or designated part thereof, not having sufficient ground water to provide a reasonably safe supply for irrigation of cultivated lands, or other uses in the basin at the then current rates of withdrawal, or rates of withdrawal projected by consideration of valid and outstanding applications and permits, as may be determined, from time to time, by the director of the Department of Water Resources." (Public Law 42-233a).

"Ground-water management area is defined as any ground-water basin or designated part thereof which the director of the Department of Water Resources has determined may be approaching the conditions of a critical ground-water area." (Public Law 42-233b).

The continued use of ground water has resulted in water-level declines in some aquifers. These declines in local and regional ground-water systems emphasize the need for, and implementation of, a comprehensive, statewide water-level monitoring program. Observation wells selected to monitor long-term changes in water levels in different areas of Idaho are shown in figure 2.

In 1999, water levels were measured at various intervals in 356 wells and continuously (sites equipped with automatic recorders) in 12 wells in the Federal-State Cooperative observation network. In addition, water-level measurements were made monthly and bimonthly in 77 wells by the U.S. Bureau of Reclamation, and 16 wells for Water District 31. Water levels were also measured in 104 wells for Special Projects and data published in this report. Figures 16-17 (pages 242-243) show locations of observation wells in various parts of the state.

Comparing March 1998 and March 1999, ground-water levels in the water-table aquifer in the Big Wood River valley of south-central Idaho rose 0.2 foot near Ketchum, and declined 1.4 feet near Bellevue. Water levels declined 0.1 foot near Gannett and rose 2.6 feet near Picabo. Water levels in the artesian aquifer rose 0.9 foot south of Gannett. In the Little Wood River valley, water levels declined 1.6 feet in the shallow aquifer near Carey. Water levels in the deep aquifer rose 1.5 feet east of Carey.

During this same period, water levels in the Big Lost River Valley rose 0.2 foot in the upper part of the valley north of Mackey, and rose 0.8 foot east of Leslie. Water levels rose 0.3 foot in the central part of the valley near Moore, and rose on average 1.1 feet west of Arco. Water levels in the Little Lost River Valley rose on average 1.6 feet northeast of Howe, and rose 3.7 feet near Howe. Water levels rose 1.2 feet near the mouth where the valley joins the Snake River Plain.

In the Snake River Plain aquifer, near the heavily pumped Rupert-Minidoka area, water levels ranged from a rise of 1.6 feet to a decline of 0.4 foot. Water levels in the Jerome, Eden, Shoshone areas, recharged by infiltration of water from unlined irrigation ditches and canals, ranged from a rise of 2.6 feet near Eden, to a rise of 0.7 foot near Shoshone. Water levels rose 1.0 foot near Gooding and remained about the same near Wendell. Water levels in the tributary valleys south of the Snake River declined 1.0 foot near Idahome, and declined on average 0.1 foot near Strevell. In the Rock Creek area, south of Hansen, water levels rose 2.0 feet and rose 3.1 feet in the Salmon Falls area, west of Rogerson. In the Blue Gulch area, water levels ranged from a rise of 9.0 feet to a decline of 6.1 feet. Water levels measured in observation wells completed in the Snake River Plain regional aquifer and located in areas unaffected by local pumping, ranged from a rise of 5.0 feet to a decline of 3.0 feet.

Water levels in the Camas Prairie area near Fairfield ranged from a decline of 1.2 feet to a rise of 1.0 foot in the water table aquifer, and declined 0.1 foot in the artesian aquifer.

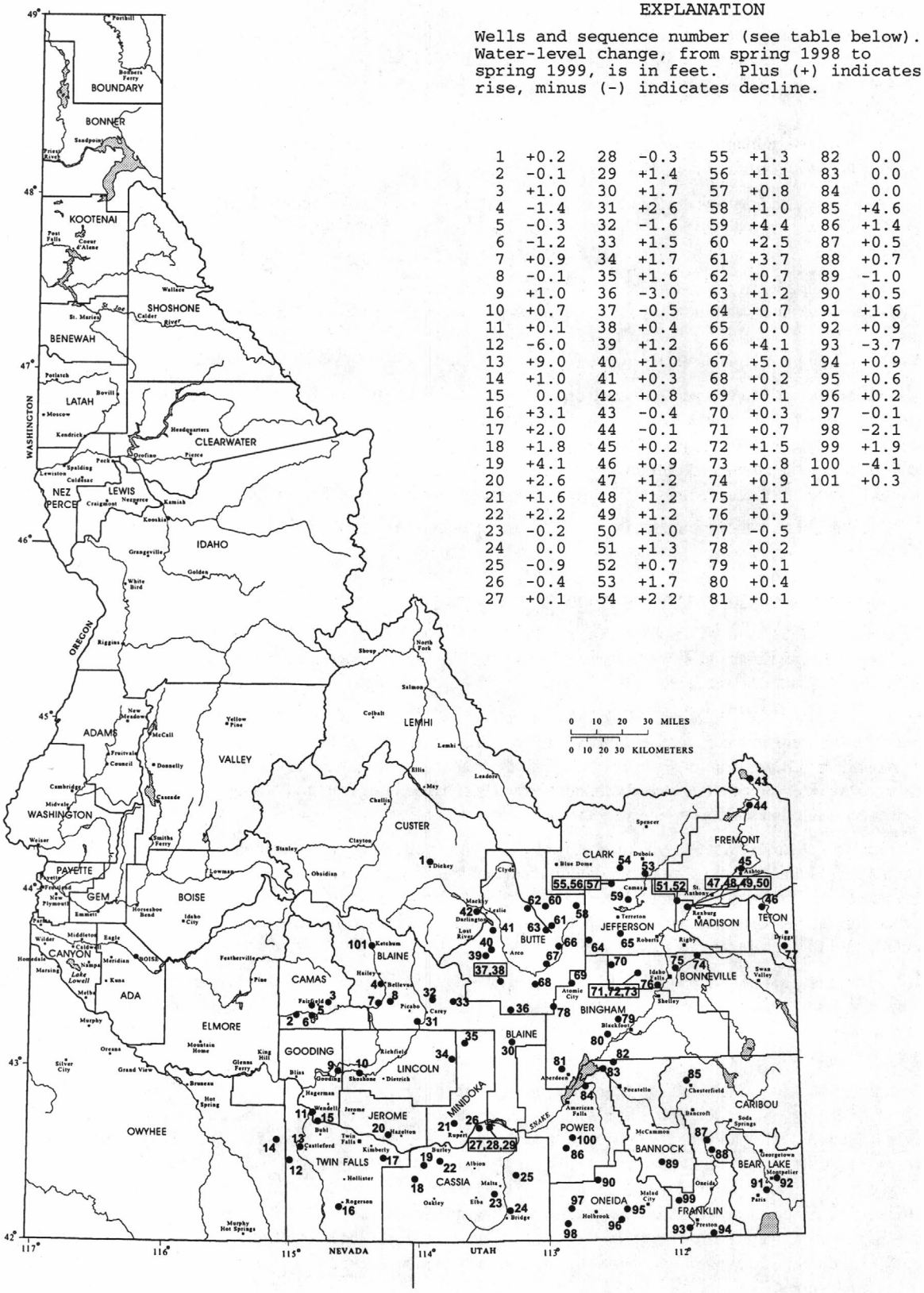


Figure 2. Water-level changes in selected observation wells.

In eastern Idaho between American Falls and Idaho Falls, water levels rose on average 1.0 foot east of Rigby and rose 0.2 foot south of Moreland. Water levels in the Portneuf River valley rose 4.6 feet north of Chesterfield and remained about the same northwest of Pocatello. Water levels declined 1.0 foot south of Viriginia and in the Michaud Flats area water levels remained about the same. Water levels in the Camas Creek, Medicine Lodge Creek, and Mud Lake area ranged from a rise of 4.4 feet to a rise of 0.1 foot. Water levels in the Rockland Valley rose 1.4 feet south of Rockland and declined 4.1 feet east of Rockland.

In southeastern Idaho, water levels ranged from a decline of 2.1 feet to a rise of 0.6 foot in the Malad River valley, and ranged from a decline of 3.7 feet south of Preston to a rise of 0.5 foot south of Turner in the Bear River valley.

Water levels in northeastern Idaho declined 0.4 foot near Henrys Lake, declined 0.1 foot near the Island Park area, and rose 0.2 foot north of Ashton. Water levels rose on average 1.1 feet in the Henrys Fork area, rose 0.9 foot near Tetonia, and declined 0.5 foot south of Driggs in the Teton River Valley.

The regional water table underlying the heavily pumped area south of Burley and the Oakley Fan area rose 4.1 feet southwest of Burley. A well in Big Cedar Canyon recorded a rise of 1.8 feet. This area is currently affected by artificial recharge.

Six wells in strategic locations across Idaho are measured on a monthly basis to determine water-level conditions. Three wells in the Snake River Plain aquifer have been below their respective mean average monthly water level since March 1988. One well monitoring the shallow aquifer in the Boise River valley reached its average in April and May 1990, August and October 1993, August 1995 to April 1996, September 1996 to October 1997, and September 1999. Another well monitoring the alluvial aquifer underlying the Rathdrum Prairie, recovered to above average water levels during March 1991 to February 1992, and June 1995 to present. The well monitoring the regional aquifer in the Snake River Plain near Gooding recovered to above average during June and July 1995, and January 1996 to present.

Water Quality

The water chemistry varies considerably in Idaho owing to the diverse geology. Dissolved solids concentrations are higher in waters from the southern region of the state and lower in waters from the central and northern regions.

The National Water-Quality Assessment Program (NAWQA) continued its fourth year of the low-intensity phase (LIP). Monthly samples were collected at 2 surface-water sites to monitor trends over time. Analyzed constituents included common ions, dissolved solids, nutrients, dissolved and suspended organic carbon, pesticides, and suspended sediment.

Samples were collected monthly, April through September, at 13 surface water sites as part of the "State-Wide Surface-Water Quality Monitoring Network". The analyzed constituents were nutrients, bacteria and suspended sediment with common ions collected during the September sampling event. Continuous water-temperature data were collected June through September at all sites.

Samples of groundwater were collected from 197 wells, June through October, as part of the "State-Wide Groundwater Quality Monitoring Network". The analyzed constituents were nutrients, common ions, bacteria, trace elements and volatile organic compounds. In addition, pesticide samples were collected at 49 wells. Alpha Analytical, Inc., Sparks, Nevada, performed the analyses for volatile organic compounds. These data are available from the Idaho Department of Water Resources.

DEFINITION OF TERMS

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

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

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

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid

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

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

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

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

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

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

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 which 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.

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

Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as Gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C plus or minus 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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 which 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.

Bedload is the sediment which moves along in essentially continuous contact with the streambed by rolling, sliding, and making brief excursions into the flow a few diameters above the bed.

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

Benthic invertebrates are invertebrate animals inhabiting the bottoms of lakes, streams, and other water bodies. They are useful as indicators of water quality.

Biological data

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

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

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

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

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

Percent Fines - visual estimate of riffle streambed substrate smaller than gravel (<2mm).

Percent Shading - Using a clinometer estimates of left and right bank shading are determined and values are added together and divided by 180 to determine percent shading relative to a horizontal surface.

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

$$\delta = \sum_{i=1}^{s} \frac{n_1}{n} \log_2 \frac{n_i}{n}$$

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

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

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

Taxa Richness - total number of distinct species or groups, usually decreases with pollution.Percent Shading.

Temperature preferences:

Cold - preferred water temperature for the species is less than 20°C or spawning temperature preference less than 16°C and native distribution is considered to be predominantly north of 45N latitude.

Warm - preferred water temperatures for the species is greater than 20°C or spawning temperature preference greater than 16°C and native distribution is considered to be predominantly south of 45N latitude.

Cool - intermediate between cold and warm water temperature preferences.

Trophic group:

Filter feeder - diet composed of suspended plant and/or animal material.

Herbivore - diet composed predominantly of plant material.

Invertivore - diet composed predominantly of invertebrates.

Omnivore - diet composed of at least 25% plant and 25% animal material.

Parasite - parasitic on other fish.

Piscivore - diet composed predominantly of fish.

Chandler, G.L., Maret, T.R. and Zaroban, D.W., 1993, Protocols for assessment of biotic integrity (fish) in Idaho streams, Boise, Idaho Department of Health and Welfare, Division of Environmental Quality, Water Quality Monitoring Protocols, Report No. 6, 40 p.

Gurtz, M.E., 1994, Design of biological components of the National Water-Quality Assessment (NAWQA) Program, in Loeb, S.L. and Spacie, Anne, eds., Biological monitoring of aquatic systems, Boca Raton, Fla., Lewis Publishers, p. 323-354.

Hayslip, G.A., ed., 1993, Region 10 instream biological monitoring handbook for wadable streams in the Pacific Northwest, Seattle, Washington, U.S. Environmental Protection Agency, Environmental Services Division, 75 p.

Fitzpatrick, F.A., Waite, I.R., D'Arconte, P.J., Meador, M.R., Maupin, M. A., and Gurtz, M.E., 1998, Revised methods for characterizing stream habitat in the National Water-Quality Assessment Program: U.S. Geological Survey, Water Resources Investigations Report 98-4052, 67 p.

Idaho Division of Environmental Quality, 1996, 1996 water body assessment guidance: A stream standards process, Boise, Idaho, 109 p.

Meador, R.R., Cuffney, T.F. and Gurtz, M.E., 1993a, Methods for sampling fish communities as part of the National Water-Quality Assessment Program, U.S. Geological Survey Open-File Report 93-104, 40 p.

Plafkin, J.L., Barbour, M.T., Porter, K.D., Gross, S.K. and Hughes, R.M., 1989, Rapid bioassessment protocols for use in streams and rivers--benthic macroinvertebrates and fish, Washington, D.C., U.S. Environmental Protection Agency, Office of Water Report EPA/444/4-89-001 [variously paged].

Robins, C.R., Bailey, R.M., Bond, C.E., Brooker, J.R., Lachner, E.A., Lea, R.N. and Scott, W.B., 1991, Common and scientific names of fishes from the United States and Canada, Bethesda, MD., American Fisheries Society Special Publication 20, 183 p.

Scott, W.B. and Crossman, E.J., 1973, Freshwater fishes of Canada, Ottawa, Fisheries Research Board of Canada, 966 p.

Sigler, W.F. and Sigler, J.W., 1987, Fishes of the Great Basin, Reno, University of Nevada Press, 425 p.

Simpson, J.C. and Wallace, R.L., 1982, Fishes of Idaho, Moscow, The University Press of Idaho, 238 p.

Zaroban, D.W., Mulvey, M.P., Maret, T.R., Hughes, R.M., and Merritt, G.D., 1999, Classification of species attributes for Pacific Northwest freshwater fishes: Northwest Science, v. 73, no. 2, p. 81-93.

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

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

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

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

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

Bottom material: See Bed material.

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.

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".

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

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.

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

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

Continuing-record station is a specified site which meets one or all conditions listed:

1. When chemical samples are collected daily or monthly for 10 or more months during the water year.
2. When water temperature records include observations taken one or more times daily.
3. When sediment discharge records include periods for which sediment loads are computed and are considered to be representative of the runoff for the water year.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

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

C*ubic foot per second* (FT^3/S, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute.

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

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

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

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

Dissolved refers to that material in a representative water sample which 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-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, 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 0.492 to reflect the change.

Diversity index: see Shannon Index under Biological data.

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

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

Extractable organic halides (EOX) are organic compounds which contain halogen atoms such a chlorine. These organic compounds are semi-volatile and extractable by ethyl acetate from air-dried stream bottom sediments. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the stream bottom sediments.

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

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

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

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.

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

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

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

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

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. It 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.

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

Natural substrate: see Substrate.

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.

Organism is any living entity, such as an insect, phytoplankton, or zooplankton.

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. The codes used in NWIS are the same as those used in the U.S.

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

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined either by sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations 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	-	64.0	Sieve

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

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

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides

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

Method detection limits (MDLs) is defined as the minimum concentration of a substance that can be identified, measured, and reported with a 99-percent confidence that the compound is greater than zero (Wershaw and others, 1987). MDLs were determined according to procedures outlined by the U.S. Environmental Agency (1992). The MDL is calculated using the following equation:

MDL = S x t (n-1,1-a=0.99), where

S = standard deviation of replicate analyses, in unit concentration, at the lowest concentration;
n = number of replicate analyses; and
t (n-1,1-a=0.99) = Student's t-value for the 99-percent confidence level with n-1 degrees of freedom (U.S. Environmental Agency, 1992)

MDLs are adjusted periodically and will change as the number of replicate analyses increases.

Wershaw, R.L., Fishman, M.J., Grabbe, R.R., and Lowe, L.E., eds., 1987, Methods for the determination of organic substances in water and fluvial sediments, U.S. Geological Survey Techniques of Water-Resources Investigations, book 5, chapter A3, 80p.

U.S. Environmental Protection Agency, 1992, Guidelines establishing test procedures for the analysis of pollutants (App. B, Part 136, Definition and procedures for the determination of the method detection limit), U.S. Code of Federal Regulations, Title 40, revised as of July 1, 1992, p. 565-567.

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.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

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

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

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

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.

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

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

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

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

River mile as used herein, is the distance above the mouth of Delaware Bay, measured along the center line of the navigation channel or the main stem of the Delaware River. River mile data were furnished by the Delaware River Basin Commission.

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

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

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

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

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

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

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The entire sample is used for the analysis.

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

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

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

Suspended total residue at 105 Deg. C concentration is the concentration of suspended sediment in the sampled zone expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). A small aliquot of the sample is used for the analysis.

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

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

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.

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

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

Substrate is the physical surface upon which an organism lives.

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

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

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

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

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

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-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 water-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. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

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

Synoptic Studies 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 hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata, is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	Hexagenia
Species	Hexagenia Limbata

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

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligramsper liter, by 0.00136.

Tons per day (T/DAY) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

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

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

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

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

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

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, 1985, is called the "1985 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.

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

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that stations. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on a first rank, second rank, and other rank 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 a list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 13317000, which appears just to the left of the station name, includes the 2-digit part number "13" plus the 6-digit downstream order number "317000." The part number designates the major river basin; for example, part "13" is the Snake River basin. Because some areas are getting crowded on the downstream order map, a station number can go up to 15 digits. The extra numbers are added to the end of the basic 8-digit number as needed. Thus, a number like 1315377299 can be found in the reports of the Idaho District.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous project sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes and second of latitude, the next 7 digits denote the degrees, minutes and second of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid (Figure 3). If a more accurate latitude or longitude is defined, the site number remains the same.

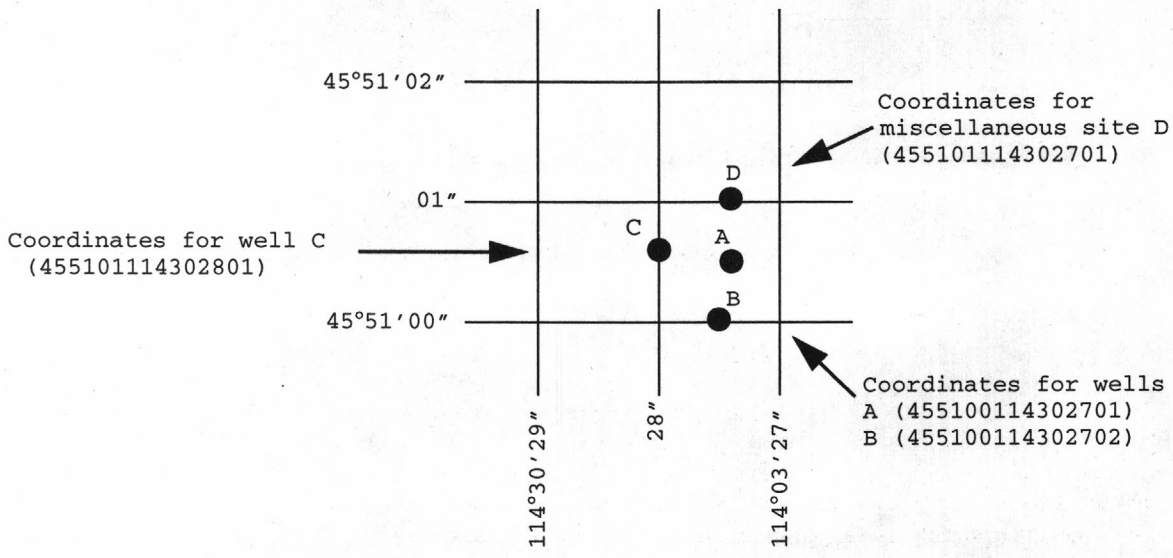


Figure 3. System for numbering wells and miscellaneous sites (latitude and longitude)

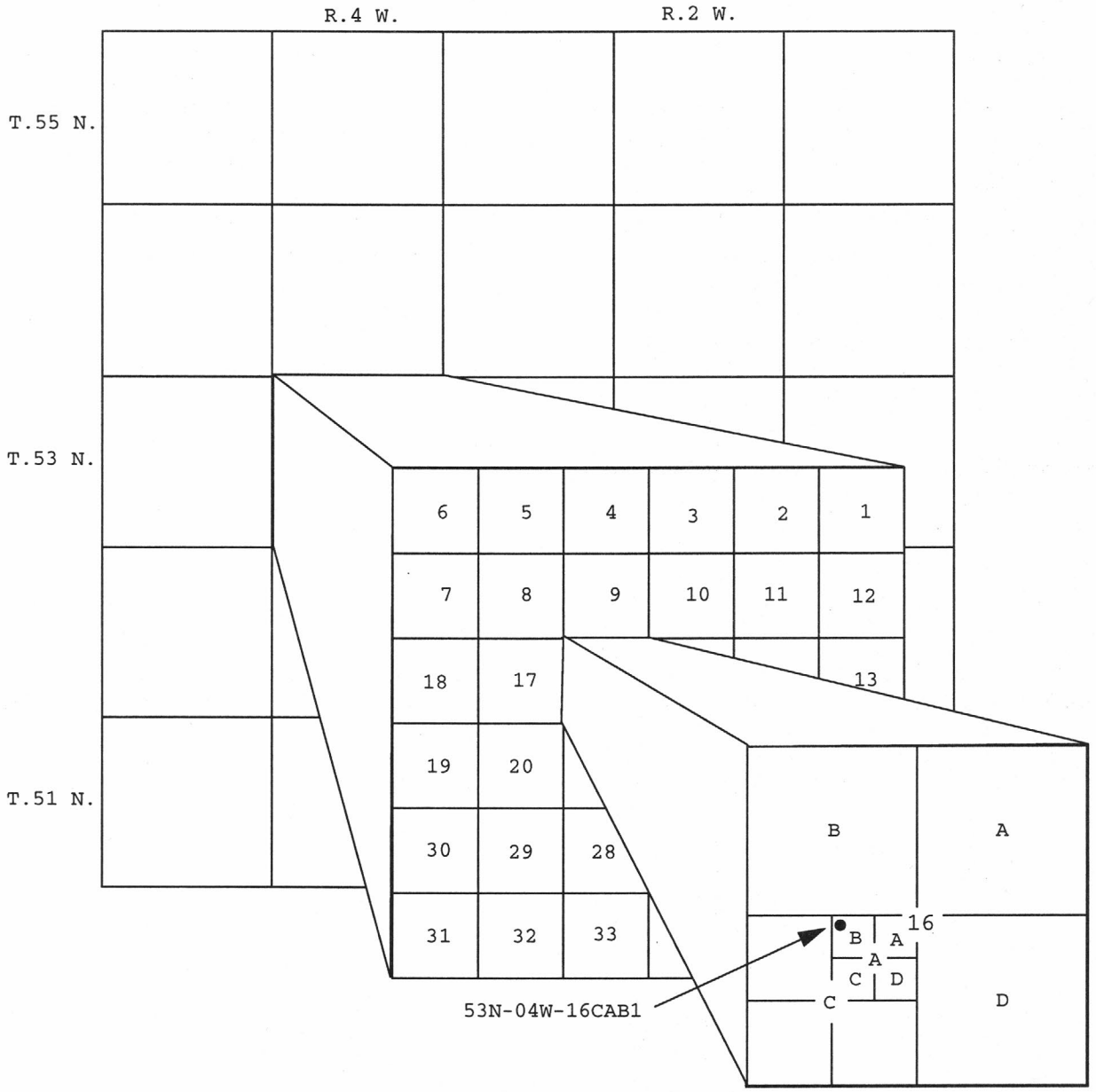


Figure 4. Diagram showing Idaho well-numbering system.

Idaho Well-Numbering System

The well-numbering system used by the Geological Survey in Idaho indicates the location of wells within the official rectangular subdivisions of the public lands, with reference to the Boise base line and Meridian. The first segment of a well number indicates the township, the second the range, and the third the section in which the well is situated. The letters following the section number indicate the well location within the section: The first letter denotes the 160-acre tract, the second the 40-acre tract, and the third the 10-acre tract in which the well occurs. The letters are assigned in a counterclockwise direction, beginning in the northeast quarter (Figure 4). The last numeral is a serial number assigned when the well is inventoried. Thus, well 53N-04W-16CAB1 is in the NW¼ NE¼ SW¼ sec. 16, T.53 N., R.04 E., and is the first well inventoried in that tract.

SPECIAL NETWORKS AND PROGRAMS

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

The 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 SO_2 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 SO_2 and NOx 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.nrel.colostate.edu/NADP

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

Assessment activities are being conducted in 53 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

EXPLANATION OF THE RECORDS

The surface-water, ground-water and water-quality 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 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.

Records of Stage and Water Discharge

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

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters, using methods adapted 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 the U.S. Geological Survey Techniques of Water Resources Investigations (TWRI), 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 of 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.

At some gaging stations, the stage-discharge relation is affected by ice during the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

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

For some gaging stations, there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute the daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise, daily contents may be estimated from operators' 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

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

Station manuscript

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

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, when given, are based on information developed by the Hydraulics and Hydrology Committee of the Pacific Northwest River Basins Commission.

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

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

REVISED RECORDS.--Because of new information, published records 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 the instantaneous maximum discharge was revised; "(m)" that the instantaneous minimum was revised; and "(P)" that the 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, and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily discharges 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 paragraph is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; 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 U.S. 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.

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 Idaho District Office (address given on the back of the title page of this report) to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

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

Data table of daily mean values

The daily table for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily mean 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. 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 first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEAR _____-_____, BY WATER YEAR (WY)", and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings for the statistics being reported. The table provides a statistical summary of yearly and daily 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 of the calculations for the statistical characteristics designated ANNUAL (See line headings on next page), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using computerized data for 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. Repeated 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 extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

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

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

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

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

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

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

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

ANNUAL 7-DAY MINUMUM.--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 Idaho 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 equivalent 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 of area drained, assuming the runoff is distributed uniformly in time and area.

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

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

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

90 PERCENT EXCEEDS.--The discharge that 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 two tables. The first is a table of annual maximum stage and discharge at crest-stage gage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are 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 Field Data and Computed Results

The accuracy of streamflow data 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 the 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 the true; "good", within 10 percent; and "fair", within 15 percent. Records that do not meet the criteria mentioned, are rated "Poor".

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

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

Other Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables are on file in the Idaho 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 District office.

Records of discharge not published by the Geological Survey were collected in the current water year by other State and Federal agencies. The National Water Data Exchange (NAWDEX), Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of these sites as well as an index of records of discharge collected by other agencies but not published by the U.S. Geological Survey. Information on records at specific sites can be obtained from that office upon request.

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.

The U.S. Geological Survey operates three surface-water quality monitoring networks--the National Stream Accounting Network (NASQAN), the National Hydrologic Benchmark Network, and the National Water-Quality Assessment Program (NAWQA). In Idaho, surface-water quality data are collected at NAWQA sites on Rock Creek at Twin Falls and the Snake River at King Hill. Surface-water quality data are also collected at various sites for other Federal, State, and local agencies. Ground-water quality data are not routinely collected on a statewide basis. Rather, data collected are associated with specific projects in cooperation with other Federal, State, and local agencies.

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.

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 separate tables following the table of discharge measurements at miscellaneous sites.

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern is to ensure that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations", (TWRI,) Book 1, Chapter D2: Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. These references are listed in the PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS section of this report. These methods are consistent with ASTM standards and generally follow ISO standards. Also, detailed information on collecting, treating, and shipping samples maybe obtained from the Geological Survey Idaho 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 DEFINITION OF TERMS) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

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

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

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for surface-water 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 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, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the Idaho office.

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. Samples are collected using standard sampling techniques discussed in TWRI Book 3, Chapter C2, "Field methods for measurement of fluvial sediment".

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 loads 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. Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C1 and C3. These methods are consistent with ASTM Standards and generally follow ISO standards.

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 observation, such data are useful in establishing seasonal relations between quality and streamflow 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.

Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratory in Arvada, Colorado. Methods used in analyzing sediment samples and to compute sediment records are described in the TWRI Book 5, Chapter C1. Methods used by the U.S. Geological Survey laboratories are given in the TWRI Book 1, Chapter D2; Book 3 Chapter C2; and Book 5, Chapters A1, A3, A4, and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

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

MBASCOR = M - 0.0088N - 0.00019C

where:

MBASCOR = corrected MBAS concentration, in mg/L;
M = reported MBAS concentration, in mg/L;
N = dissolved nitrate plus nitrite, as nitrogen, concentration, in mg/L; and
C = dissolved chloride concentration, in mg/L.

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

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Data Presentation

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

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

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

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

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

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 record.

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. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

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

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

Remark Codes

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

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

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.

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.

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.

Dissolved Trace-Element Concentrations

NOTE.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu g/L$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the $\mu g/L$ levels 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.

Change in National Trends Network Procedures

NOTE.--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).

Records of Ground-Water Levels

Ground-water level data from the statewide network of observation wells are published herein. This network is designed so that the fewest number of wells are used to obtain the most significant data in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See Figure 3 (page 18).

When a well is added to the State observation-well network, all its prior water-level measurements may be obtained from the Idaho District.

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.

Table of water-level data are presented by counties arranged in alphabetical 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. The reported water level has been computed below or above(+) land surface datum. 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 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.

Letters following water levels in tables indicate method of measurement followed by site status at time of measurement; Method: H - Calibrated pressure gage, M - manometer, S - Steel tape, V - calibrated electric tape. Status: D - dry, E - flowed recently, G - nearby flowing, N - measurement discontinued, O - obstruction, P - pumping, R - recently pumped, S - nearby pumping, V - foreign substance (oil on water), W - well destroyed.

Data Presentation

For each well, the well description includes, if available, the following information: Idaho well number, Latitude-longitude number, method of construction, use of well, type of well, (artesian or water table), formal aquifer name or lithology and geologic age, diameter of casing, depth of well, depth of perforations or screen, altitude of land-surface datum, remarks of unusual conditions affecting the water level, acknowledgment of outside persons or agencies contributing data, and a description of the measuring point (MP). The depth of the well at the time it was originally inventoried is given in the well description. If the well has been deepened or filled in, the new depth and date the change was discovered are noted following the notation of the land-surface datum.

A table of water levels follows the 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 mid-day water-level readings 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 also shown in the table. For a select number of wells, hydrographs are provided below the water-level table.

Aquifer Names

The names of aquifers and their geologic ages adopted for use in Idaho are from the stratigraphic names listed in the Idaho section of the U.S. Geological Survey Bulletins 1056-B, 1200, and 1395-A. Names will be modified where necessary as official changes in stratigraphic nomenclature occur. If a formal name has not been assigned to the aquifer, the lithology and its age are used to designate the water-bearing unit. Although some wells are supplied by more than one aquifer, only the major aquifer penetrated by the well is given in the well description.

Records of Ground-Water Quality

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

Data Collection and Computation

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

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" (TWRI) manuals listed under PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS in this report. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO 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 gaging stations through the world wide web (WWW). These data may be accessed at

http://water.usgs.gov

Some water-quality and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on magnetic tape 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 each of the Water Resources Division District Offices (See address on the back of the title page.)

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Phone 1-888-275-8747. Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

1-D1. *Water temperature--influential factors, field measurement, and data presen*tation, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

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

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

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

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

Section E. Subsurface Geophysical.Methods

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

2-E2. *Borehole geophysics applied to ground-water investigations,* by W.S. Keys: USGS–TWRI Book 2, Chapter E2. 1990. 150 pages.

Section F. Drilling and Sampling Methods

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

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS–TWRI Book 3, Chapter A1. 1967. 30 pages.

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

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS–TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS-TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS–TWRI Book 3. Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS–TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. *Measurement of time of travel in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI Book 3, Chapter A9. 1989. 27 pages.

3-Al0. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS–TWRI Book 3, Chapter A10. 1984. 59 pages.

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

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

3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS–TWRI Book 3, Chapter A15. 1984. 48 pages.

3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI Book 3, Chapter A16. 1985. 52 pages.

3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS–TWRI Book 3, Chapter A17. 1985. 38 pages.

3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI Book 3, Chapter A18. 1989. 52 pages.

3-A19. *Levels at streamflow gaging stations,* by E.J. Kennedy: USGS–TWRI Book 3, Chapter A19. 1990. 31 pages.

3-A20. *Simulation of soluable waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI Book 3, Chapter A20. 1993. 38 pages.

3-A21 *Stream-gaging cableways*, by C. Russell Wagner: USGS–TWRI Book 3, Chapter A21. 1995. 56 pages.

Section B. Ground-Water Techniques

3-B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G.D. Bennett: USGS–TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers,* by J.E. Reed: USGS–TWRI Book 3, Chapter B3. 1980. 106 pages.

3-B4. *Regression modeling of ground-water flow,* by R.L. Cooley and R.L. Naff: USGS–TWRI Book 3, Chapter B4. 1990. 232 pages.

3-B4. *Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems,* by R.L. Cooley: USGS–TWRI Book 3, Chapter B4. 1993. 8 pages.

3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction,* by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI Book 3, Chapter B5. 1987. 15 pages.

3-B6. *The principle of superposition and its application in ground-water hydraulics,* by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI Book 3, Chapter B6. 1987. 28 pages.

3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow,* by E.J. Wexler: USGS–TWRI Book 3, Chapter B7. 1992. 190 pages.

Section C. Sedimentation and Erosion Techniques

3-C1. *Fluvial sediment concepts,* by H.P. Guy: USGS–TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment,* by Thomas K. Edwards and G. Douglas Glysson: USGS–TWRI Book 3, Chapter C2. 1988. 80 pages.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS–TWRI Book 3, Chapter C3. 1972. 66 pages.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4-A1. *Some statistical tools in hydrology,* by H.C. Riggs: USGS–TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves,* by H.C. Riggs: USGS–TWRI Book 4, Chapter A2. 1968. 15 pages.

Section B. Surface Water

4-B1. *Low-flow investigations,* by H.C. Riggs: USGS–TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply,* by H.C. Riggs and C.H. Hardison: USGS–TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS–TWRI Book 4, Chapter B3. 1973. 15 pages.

Section D. Interrelated Phases of the Hydrologic Cycle

4-D1. *Computation of rate and volume of stream depletion by wells,* by C.T. Jenkins: USGS–TWRI Book 4, Chapter D1. 1970. 17 pages.

Book 5. Laboratory Analysis

Section A. Water Analysis

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI Book 5, Chapter A1. 1989. 545 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy,* by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. *Methods for the determination of organic substances in water and fluvial sediments,* edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS–TWRI Book 5, Chapter A3. 1987. 80 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* by L.J. Britton and P.E. Greeson, editors: USGS–TWRI Book 5, Chapter A4. 1989. 363 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS–TWRI Book 5, Chapter A5. 1977. 95 pages.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments,* by L.C. Friedman and D.E. Erdmann: USGS–TWRI Book 5, Chapter A6. 1982. 181 pages.

Section C. Sediment Analysis

5-C1. *Laboratory theory and methods for sediment analysis,* by H.P. Guy: USGS–TWRI Book 5, Chapter C1. 1969. 58 pages.

Book 6. Modeling Techniques

Section A. Ground Water

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

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

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

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

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

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

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

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

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

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

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8-A1. *Methods of measuring water levels in deep wells,* by M.S. Garber and F.C. Koopman: USGS–TWRI Book 8, Chapter A1. 1968. 23 pages.

8-A2. *Installation and service manual for U.S. Geological Survey manometers,* by J.D. Craig: USGS–TWRI Book 8, Chapter A2. 1983. 57 pages.

Section B. Instruments for Measurement of Discharge

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

Book 9. Handbooks for Water-Resources Investigations

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

9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.

9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.

9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.9-A6.*National Field Manual for the Collection of Water-Quality Data: Field Measurements,* edited by F.D. Wilde and D.B. Radtke: USGS–TWRI Book 9, Chapter A6. 1998. Variously paginated.

9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.

9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators,* by D.N. Myers and F.D. Wilde: USGS–TWRI Book 9, Chapter A7. 1997. 49 pages.

9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples,* by D.B. Radtke: USGS–TWRI Book 9, Chapter A8. 1998. 48 pages.

9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities,* by S.L. Lane and R.G. Fay: USGS–TWRI Book 9, Chapter A9. 1998. 60 pages.

The following figures 5-7 show locations of surface-water and water-quality stations in various parts of Idaho.

EXPLANATION

PART 13 — River basin boundary and number

▲ 336500 — Gaging station and number

▼ — Water-quality data collection site

♦ — Gaging station and water-quality data collection site

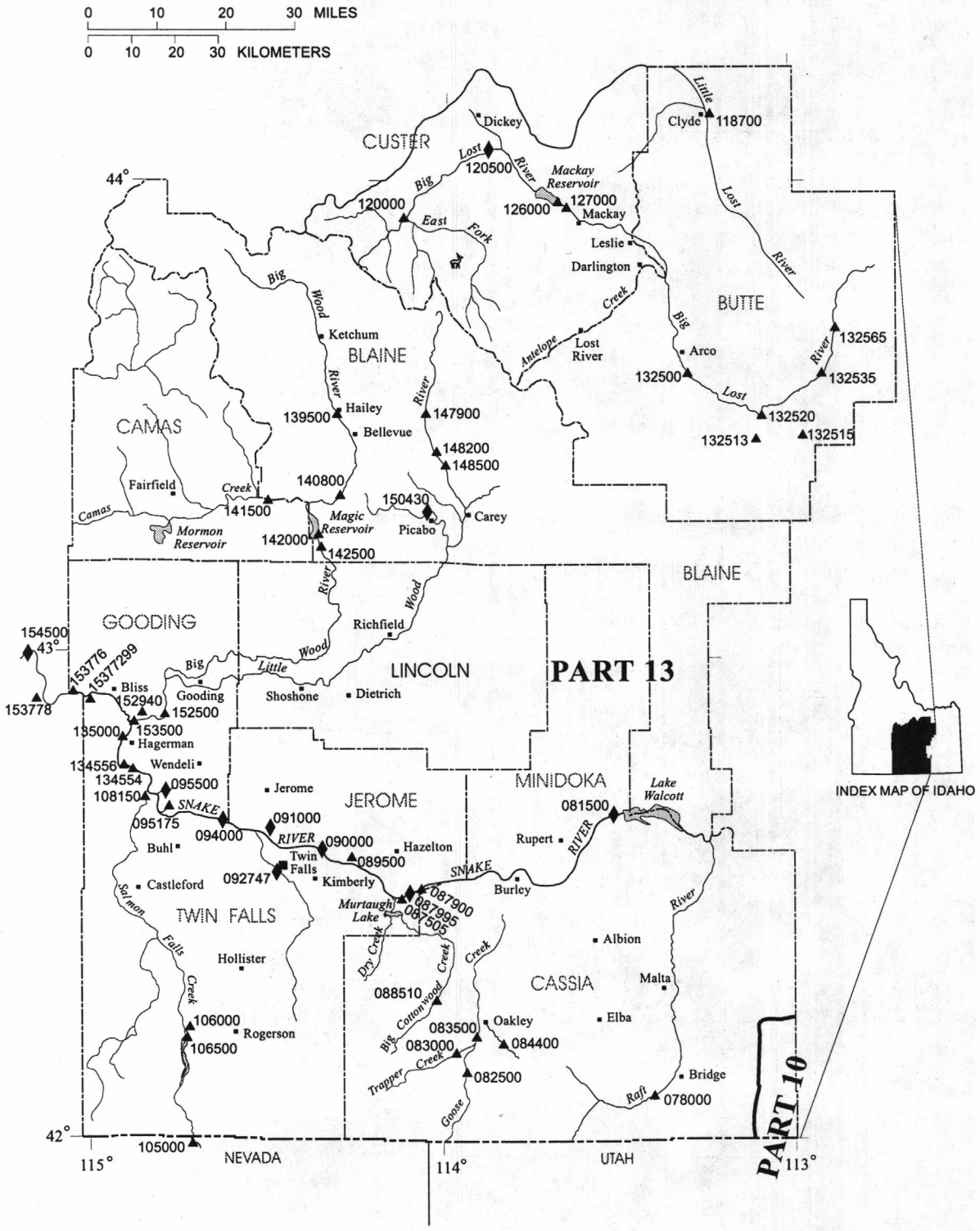


Figure 5. Locations of surface-water and water-quality stations in south-central Idaho.

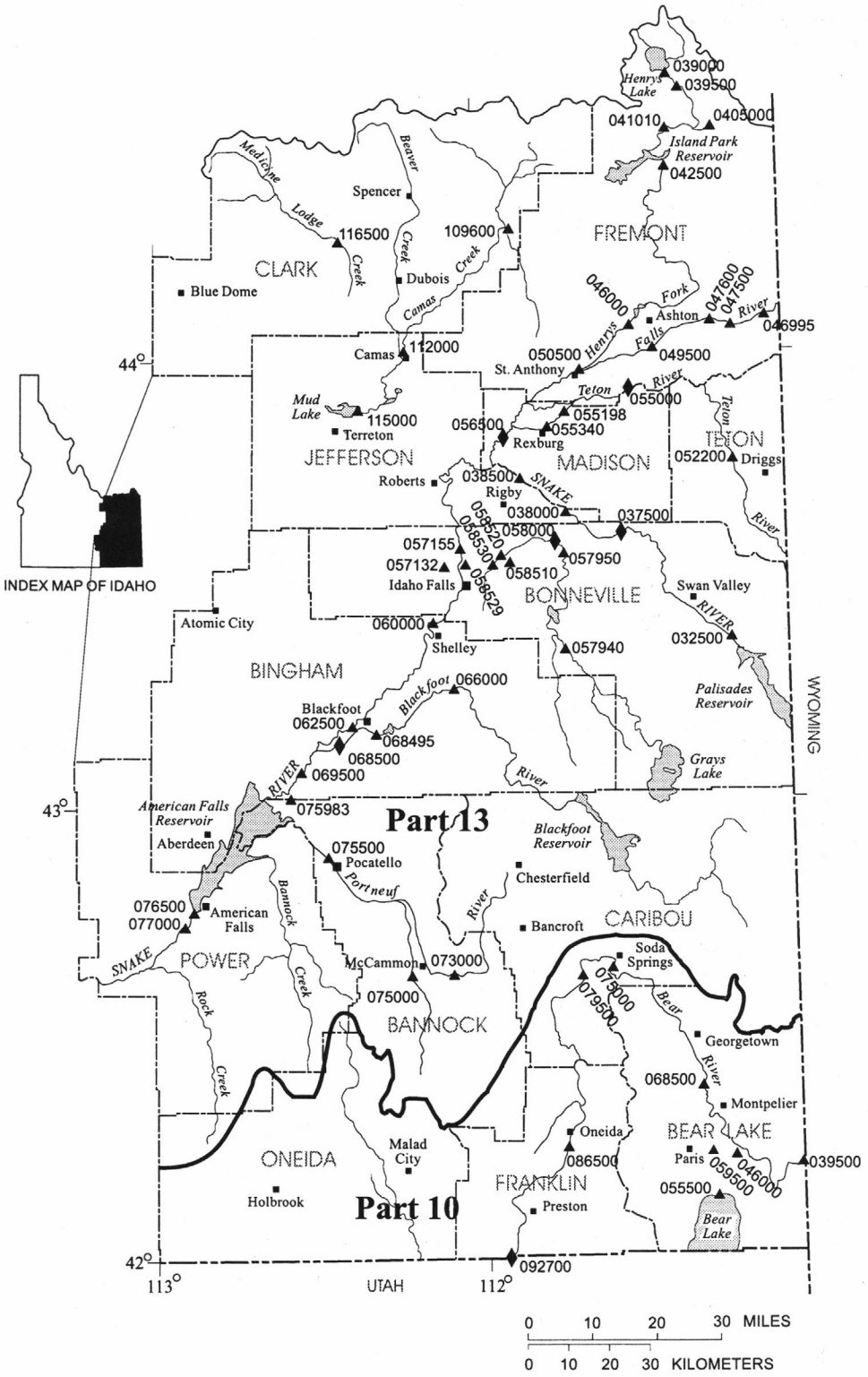


Figure 6. Locations of surface-water and water-quality stations in southeast Idaho.

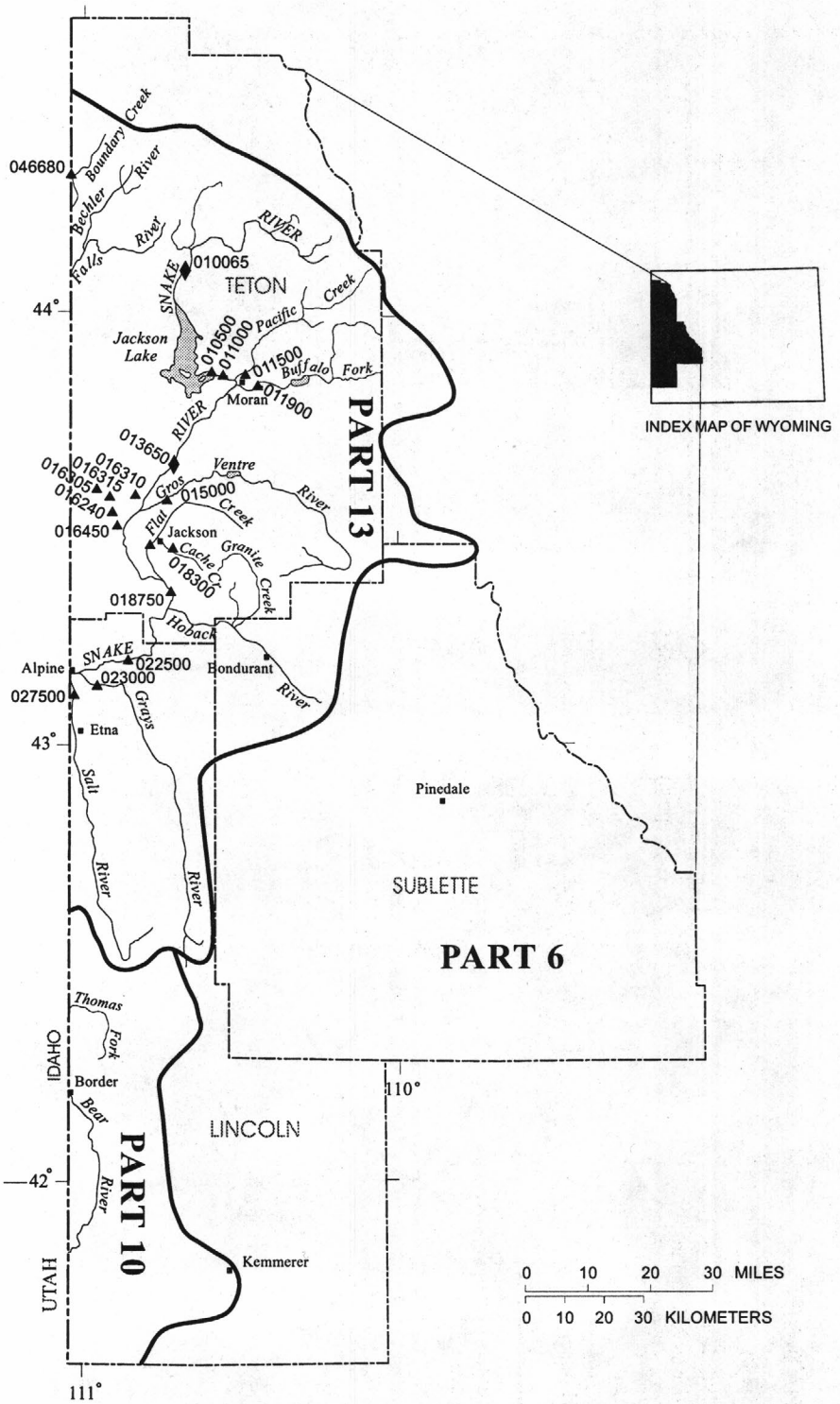


Figure 7. Locations of surface-water and water-quality stations in west-central Wyoming.

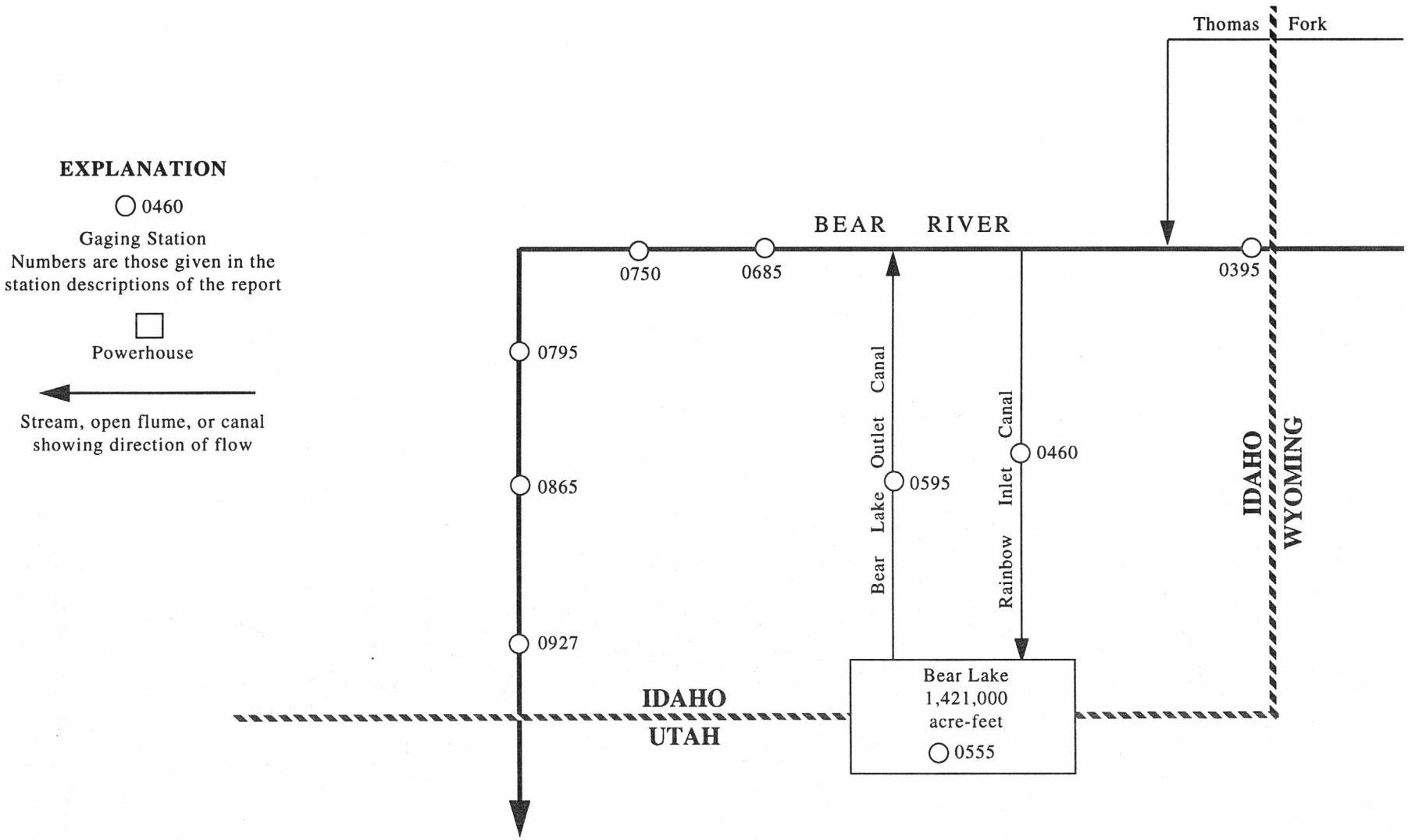


Figure 8. Gaging stations in Bear River basin

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE¼NE¼NE¼ sec.15, T.14 S., R.46 E., Bear Lake County, Idaho, Hydrologic Unit 16010102, on left bank 0.2 mi west of Wyoming-Idaho State line, 0.5 mi west of Border, and 2.1 mi upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi^2.

PERIOD OF RECORD.--October 1937 to September 1996, October 1996 to current year (seasonal).

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft above sea level, unadjusted.

REMARKS.--Records good. Natural flow of stream affected by regulation of upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft^3/s June 7, 1983, gage height, 9.69 ft; minimum, 24 ft^3/s Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,820 ft^3/s June 9, gage height, 8.13 ft; minimum daily, 267 ft^3/s Sept. 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	429	421	---	---	---	---	880	1580	2380	1560	585	339
2	444	390	---	---	---	---	793	1670	2340	1470	571	345
3	499	361	---	---	---	---	761	1750	2460	1380	555	368
4	537	348	---	---	---	---	742	1760	2570	1280	545	395
5	534	347	---	---	---	---	719	1730	2630	1180	538	410
6	532	346	---	---	---	---	698	1680	2690	1210	551	405
7	533	332	---	---	---	---	687	1640	2750	1110	555	391
8	524	331	---	---	---	---	695	1670	2810	1110	550	380
9	527	326	---	---	---	---	748	1740	2820	1030	540	377
10	521	313	---	---	---	---	758	1700	2790	983	528	372
11	512	301	---	---	---	---	716	1610	2760	956	521	366
12	505	304	---	---	---	---	712	1540	2650	961	509	357
13	504	307	---	---	---	---	744	1560	2530	1000	496	341
14	491	315	---	---	---	---	762	1580	2450	1040	515	331
15	501	318	---	---	---	---	718	1600	2380	1180	505	327
16	529	320	---	---	---	---	694	1590	2270	1150	479	321
17	535	320	---	---	---	---	678	1590	2220	1050	460	319
18	538	321	---	---	---	---	707	1590	2170	989	424	307
19	585	320	---	---	---	---	773	1620	2110	974	360	318
20	634	316	---	---	---	---	852	1620	2070	927	380	355
21	645	307	---	---	---	---	895	1460	2110	872	379	344
22	646	314	---	---	---	---	884	1450	2150	810	375	338
23	661	315	---	---	---	---	885	1560	2180	760	376	341
24	671	319	---	---	---	---	881	1650	2160	718	373	316
25	663	313	---	---	---	---	931	1740	2120	685	374	309
26	662	305	---	---	---	---	1030	1840	2070	674	370	290
27	673	304	---	---	---	---	1100	1990	1990	645	370	281
28	676	306	---	---	---	---	1220	2080	1870	606	387	277
29	673	312	---	---	---	---	1240	2130	1760	571	355	273
30	612	327	---	---	---	---	1390	2250	1680	584	338	267
31	477	---	---	---	---	---	---	2350	---	593	344	---
TOTAL	17473	9779	---	---	---	---	25293	53320	69940	30058	14208	10160
MEAN	564	326	---	---	---	---	843	1720	2331	970	458	339
MAX	676	421	---	---	---	---	1390	2350	2820	1560	585	410
MIN	429	301	---	---	---	---	678	1450	1680	571	338	267
AC-FT	34660	19400	---	---	---	---	50170	105800	138700	59620	28180	20150

BEAR RIVER BASIN

10046000 RAINBOW INLET CANAL NEAR DINGLE, ID

LOCATION.--Lat 42°13'48", long 111°17'43", in NW¼SW¼SE¼ sec.3, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 1.5 mi west of Dingle and 1.8 mi downstream from headworks at Stewart Dam.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only prior to October 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,922.0 ft above sea level, (by topographic survey). Prior to Oct. 1, 1923, at site 300 ft downstream at different datum; Oct. 1, 1923 to Oct. 27, 1944, at site 0.5 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Canal diverts from Bear River at Stewart Dam in NE¼ sec.34, T.13 S., R.44 E., for storage in Bear Lake. At times flow in canal is augmented by surplus water from Black Otter Slough entering at the station and by seepage and surplus water from irrigation.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--77 years, 374 ft³/s, 271,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,950 ft³/s May 27, 1984; no flow Apr. 28, 1977, Oct. 1, 1979.

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	435	498	369	e240	e246	e226	880	1460	2090	1590	546	302
2	445	463	373	e254	e249	e239	852	1620	2180	1440	531	306
3	489	412	360	e257	e249	e242	801	1770	2190	1400	522	313
4	540	408	356	e264	e252	e245	775	1890	2250	1330	513	341
5	546	404	360	e256	e249	e248	762	1880	2490	1210	499	357
6	547	392	e308	e253	e235	e244	737	1820	2560	1150	476	370
7	538	392	e246	e249	e232	e243	713	1700	2610	1120	468	367
8	544	384	e253	e256	e225	e256	710	1640	2670	1070	494	370
9	540	356	e260	e252	e225	e256	714	1720	2770	1100	494	366
10	541	380	e270	e248	e234	e262	727	1800	2860	1050	476	361
11	542	377	e274	e251	e247	e269	725	1760	2900	987	471	353
12	539	369	e281	e248	e247	e272	701	1610	2870	914	471	340
13	535	356	e292	e244	e240	e271	699	1580	2800	907	471	340
14	545	365	e292	e251	e220	e263	702	1560	2680	946	471	336
15	546	369	e292	e240	e223	e263	721	1580	2510	1000	480	328
16	552	369	e289	e247	e229	e255	713	1570	2430	1160	471	324
17	562	369	e281	e243	e229	e255	700	1540	2280	1140	453	324
18	568	369	e274	e243	e232	e257	687	1530	2210	1040	445	324
19	569	369	e274	e239	e239	e271	712	1530	2140	958	412	324
20	600	373	e274	e246	e245	e327	759	1540	2090	918	372	336
21	621	369	e274	e246	e248	e364	807	1520	2050	879	380	327
22	607	369	e270	e235	e262	e487	828	1360	2080	840	372	308
23	623	369	e249	e238	e272	e599	820	1380	2110	776	368	315
24	634	373	e274	e245	e276	639	817	1430	2160	720	375	323
25	635	373	e274	e248	e279	659	809	1450	2130	667	368	304
26	631	373	e274	e248	e282	749	849	1530	2100	630	350	278
27	632	365	e260	e251	e286	834	970	1620	2060	585	346	256
28	647	369	e278	e251	e293	846	1050	1750	1970	566	346	253
29	627	369	e278	e250	---	820	1170	1870	1820	590	350	256
30	627	373	e270	e250	---	814	1280	1910	1700	551	333	246
31	577	---	e253	e250	---	875	---	2000	---	551	298	---
TOTAL	17584	11476	8932	7693	6945	12850	24190	50920	69760	29785	13422	9648
MEAN	567	383	288	248	248	415	806	1643	2325	961	433	322
MAX	647	498	373	264	293	875	1280	2000	2900	1590	546	370
MIN	435	356	246	235	220	226	687	1360	1700	551	298	246
AC-FT	34880	22760	17720	15260	13780	25490	47980	101000	138400	59080	26620	19140

CAL YR 1998 TOTAL 276611 MEAN 758 MAX 2560 MIN 246 AC-FT 548700
WTR YR 1999 TOTAL 263205 MEAN 721 MAX 2900 MIN 220 AC-FT 522100

e Estimated

10055500 BEAR LAKE AT LIFTON, NEAR ST. CHARLES, ID

LOCATION.--Lat 42°07'16", long 111°18'52", in NE¼ sec.16, T.15 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, in Lifton pumping plant of Utah Power & Light Co., 3.5 mi east of St. Charles.

DRAINAGE AREA.--435 mi^2, approximately (does not include Mud Lake drainage).

PERIOD OF RECORD.--October 1903 to June 1906, elevations only, published as "at Fish Haven," January 1921 to current year. Monthly contents only January 1921 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage is 5,900 ft Utah Power & Light Co. datum.

REMARKS.--Outflow regulated by gates and pumps at the north end of Bear Lake and by gates in dike at north end of Mud Lake, a shallow interconnected lake. Principal inflow to Bear Lake is from Bear River through Rainbow Inlet Canal (sta 10046000) and Dingle Inlet Canals into Mud Lake, from which the inflow can enter into Bear Lake either through the pumping plant or an opening in the dividing causeway. The inflow can be routed directly into the Outlet Canal (sta 10059500). Usable capacity of Bear Lake is 1,421,000 acre-ft between elevation 5,902.00 ft, lower limit of pumps, and 5,923.65 ft, upper limit of storage with existing facilities. Water is used for irrigation and power development. Figures herein given represent usable contents.

COOPERATION.--Records provided by Utah Power & Light Co. under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,423,000 acre-ft June 10, 1923, elevation, 5,923.68 ft; no usable contents Nov. 9-19, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,354,000 acre-ft July 4-6, elevation, 5,922.69 ft; minimum, 1,095,000 acre-ft Mar. 26-31, elevation, 5,919.00 ft.

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1264	1229	1175	1139	1136	1122	1097	1141	1241	1352	1337	1290
2	1264	1228	1173	1138	1136	1120	1098	1145	1246	1353	1336	1288
3	1264	1226	1171	1138	1135	1120	1099	1150	1252	1353	1336	1287
4	1264	1224	1169	1137	1134	1119	1099	1156	1255	1354	1335	1285
5	1262	1222	1167	1136	1134	1118	1100	1160	1259	1354	1335	1283
6	1262	1220	1165	1136	1133	1117	1102	1165	1264	1354	1334	1281
7	1260	1219	1164	1135	1132	1116	1102	1171	1270	1353	1333	1278
8	1259	1217	1161	1134	1132	1115	1103	1174	1277	1352	1332	1276
9	1257	1215	1159	1134	1132	1114	1104	1178	1284	1351	1331	1272
10	1255	1213	1158	1133	1132	1113	1106	1181	1291	1351	1329	1269
11	1254	1211	1157	1131	1131	1112	1106	1182	1298	1350	1328	1267
12	1252	1209	1157	1131	1131	1111	1107	1184	1304	1349	1327	1265
13	1252	1207	1156	1131	1131	1110	1108	1186	1306	1349	1325	1263
14	1250	1205	1155	1130	1131	1108	1108	1189	1311	1348	1324	1262
15	1248	1203	1153	1130	1131	1107	1109	1192	1315	1347	1322	1259
16	1245	1201	1152	1130	1131	1106	1110	1194	1317	1347	1320	1258
17	1244	1198	1152	1130	1131	1104	1111	1197	1321	1346	1318	1257
18	1242	1196	1151	1130	1131	1103	1112	1199	1323	1345	1316	1255
19	1241	1194	1150	1130	1131	1102	1112	1201	1327	1344	1315	1254
20	1238	1192	1150	1131	1131	1101	1115	1203	1331	1343	1313	1252
21	1237	1191	1148	1134	1131	1099	1117	1205	1335	1342	1311	1250
22	1236	1189	1148	1135	1131	1099	1118	1207	1338	1342	1309	1248
23	1234	1188	1147	1136	1131	1097	1120	1210	1340	1341	1307	1247
24	1233	1186	1146	1137	1130	1097	1122	1213	1343	1340	1305	1245
25	1232	1184	1145	1138	1129	1096	1125	1215	1345	1340	1303	1244
26	1231	1182	1144	1138	1127	1095	1127	1218	1346	1339	1301	1242
27	1231	1181	1143	1138	1123	1095	1129	1222	1347	1338	1299	1241
28	1231	1180	1143	1138	1122	1095	1130	1225	1349	1337	1297	1239
29	1231	1178	1141	1138	---	1095	1132	1228	1350	1337	1295	1238
30	1230	1177	1141	1137	---	1095	1136	1232	1351	1337	1292	1236
31	1229	---	1140	1136	---	1095	---	1236	---	1337	1291	---
MAX	1264	1229	1175	1139	1136	1122	1136	1236	1351	1354	1337	1290
MIN	1229	1177	1140	1130	1122	1095	1097	1141	1241	1337	1291	1236
†	5920.92	5920.17	5919.64	5919.59	5919.39	5919.00	5919.58	5921.01	5922.65	5922.45	5921.80	5921.01
‡	-37	-52	-37	-4	-14	-27	+41	+100	+115	-14	-46	-55

CAL YR 1998 ‡ +13
WTR YR 1999 ‡ -30

† Elevation, in feet, at end of month.
‡ Change in contents, in thousands of acre-feet.

BEAR RIVER BASIN

10059500 BEAR LAKE OUTLET CANAL NEAR PARIS, ID

LOCATION.--Lat 42°13'00", long 111°20'35", in SW¼NW¼SW¼ sec.8, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 2,000 ft downstream from headgates (at dike) and 3 mi southeast of Paris.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 5,912.6 ft above sea level, unadjusted.

REMARKS.--Records fair. Flow regulated by Bear Lake (sta 10055500).

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--77 years, 411 ft^3/s, 297,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,080 ft^3/s June 19-21, 1986; minimum daily, 1.0 ft^3/s for many days in 1937, 1954, 1959, 1961, 1964, 1977-78.

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	1140	1080	e1170	e550	e636	e967	613	579	452	1070	1170	988
2	1150	1090	e1170	e557	e640	e980	574	634	455	1070	1150	994
3	1190	1120	e1170	e553	e667	e993	607	582	460	1080	1130	990
4	1210	1130	e1170	e562	e694	e992	601	531	486	1100	1110	1010
5	1200	1160	e1160	e561	e768	e955	588	529	498	1100	1140	1010
6	1190	1160	e1130	e508	e817	e932	580	538	496	1110	1160	1010
7	1170	1160	e1120	e483	e831	e922	580	583	493	1130	1150	998
8	1160	1160	e1100	e449	e836	e938	462	644	498	1200	1160	1000
9	1140	1140	e1070	e438	e768	e1010	376	675	482	1250	1180	996
10	1130	1150	e1010	e423	e776	e1120	378	722	477	1260	1190	992
11	1120	1160	e960	e409	e770	e1120	389	768	477	1270	1170	978
12	1110	1150	e911	e369	e763	e1120	384	762	585	1280	1160	974
13	1100	1140	e861	e290	e769	e1060	386	762	714	1290	1150	967
14	1100	1140	e799	e263	e771	e1020	397	762	667	1290	1130	963
15	1090	1150	e721	e262	e764	e955	377	756	647	1290	1120	956
16	1090	1160	e698	e263	e761	e832	315	752	658	1290	1110	961
17	1100	1170	e683	e263	e763	e843	222	744	706	1320	1090	954
18	1110	1180	e677	e264	e768	e855	200	735	709	1360	1080	957
19	1100	1170	e674	e263	e773	e848	199	732	709	1380	1070	966
20	1100	1160	e674	e262	e770	e845	264	672	692	1370	1040	975
21	1100	1160	e621	e263	e755	e845	320	600	695	1360	1030	859
22	1100	1150	e583	e262	e757	e841	318	614	781	1320	1020	805
23	1100	1160	e558	e263	e762	e809	313	608	934	1280	1020	799
24	1100	1160	e555	e263	e770	690	307	666	944	1270	1020	789
25	1100	1160	e547	e264	e940	676	310	771	987	1260	1030	768
26	1080	1160	e559	e396	e999	665	317	788	1040	1240	1020	544
27	1080	1160	e564	e499	e1040	626	308	605	1040	1230	1010	385
28	1070	1170	e546	e624	e1090	612	311	408	1030	1220	1010	400
29	1070	1170	e558	e628	---	617	318	410	1020	1210	1000	402
30	1080	1170	e555	e632	---	633	390	433	1020	1200	1010	441
31	1090	---	e554	e634	---	632	---	429	---	1190	1010	---
TOTAL	34670	34550	25128	12720	22218	26953	11704	19794	20852	38290	33840	25831
MEAN	1118	1152	811	410	794	869	390	639	695	1235	1092	861
MAX	1210	1180	1170	634	1090	1120	613	788	1040	1380	1190	1010
MIN	1070	1080	546	262	636	612	199	408	452	1070	1000	385
AC-FT	68770	68530	49840	25230	44070	53460	23210	39260	41360	75950	67120	51240

CAL YR 1998 TOTAL 317082.0 MEAN 869 MAX 1550 MIN 5.0 AC-FT 628900
WTR YR 1999 TOTAL 306550 MEAN 840 MAX 1380 MIN 199 AC-FT 608000

e Estimated

BEAR RIVER BASIN

10068500 BEAR RIVER AT PESCADERO, ID

LOCATION.--Lat 42°24'06", long 111°21'22", in SW¼SW¼SE¼ sec.6, T.12 S., R.44 E., Bear Lake County, Hydrologic Unit 16010202, on left bank at Pescadero, 400 ft downstream from road bridge, 2 mi downstream from Bennington Creek, and 6.5 mi northwest of Montpelier.

DRAINAGE AREA.--3,705 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1921 to September 1954, June 1969 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage is 5,900 ft above sea level, from topographic map. Prior to Oct. 1, 1988 at datum 0.35 ft lower.

REMARKS.--Records good except for small periods of possible ice affect during the winter months (Dec.-Feb), which are fair. Flow regulated by Bear Lake (sta 10055500) and diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,280 ft^3/s June 21, 1986; minimum daily, 23 ft^3/s Mar. 14-17, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,570 ft^3/s July 20; minimum daily, 446 ft^3/s Sept. 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	1250	1240	1350	e680	e700	1120	946	997	913	1340	1290	1100
2	1280	1220	1350	e640	e800	1140	879	1150	951	1330	1270	1110
3	1310	1240	1350	e620	e840	1170	885	1170	958	1360	1250	1120
4	1340	1270	1330	e680	e780	1180	878	1100	951	1420	1220	1130
5	1340	1310	1310	e740	e840	1160	877	1070	1020	1400	1210	1140
6	1330	1320	1290	e740	e900	1100	868	1060	1080	1390	1290	1130
7	1320	1310	1250	e640	e800	1090	884	1090	1100	1380	1270	1120
8	1300	1330	1240	e660	e740	1120	897	1130	1120	1360	1270	1110
9	1280	1310	1230	e700	e700	1180	741	1170	1100	1430	1280	1120
10	1260	1290	1350	e640	e760	1200	695	1190	1090	1460	1330	1120
11	1240	1310	1290	e640	e900	1220	699	1260	1080	1450	1310	1100
12	1240	1300	1130	e640	e860	1220	707	1270	1040	1460	1300	1080
13	1230	1300	1100	e640	e920	1200	714	1280	1250	1450	1290	1080
14	1210	1300	1060	e630	e880	1130	702	1280	1300	1440	1270	1070
15	1200	1300	968	e632	e940	1130	691	1270	1260	1430	1250	1060
16	1180	1310	927	e594	e880	973	661	1270	1190	1410	1230	1060
17	1170	1330	924	e542	e900	940	550	1260	1200	1430	1220	1050
18	1200	1330	946	e563	975	954	480	1250	1190	1470	1200	1060
19	1210	1330	989	e556	950	970	465	1230	1170	1530	1180	1060
20	1210	1320	e600	e539	1020	968	489	1220	1110	e1570	1150	1080
21	1210	1320	e680	e531	1080	991	614	1110	1040	e1560	1130	1070
22	1220	1320	e700	e552	783	1010	650	1110	1060	e1510	1110	939
23	1230	1320	e600	e525	1070	1050	656	1110	1240	e1480	1110	897
24	1240	1320	e700	e508	1020	980	653	1110	1260	e1430	1100	884
25	1250	1320	e680	e474	919	974	650	1250	1260	e1420	1110	861
26	1240	1320	e700	e639	991	1030	648	1310	1350	e1400	1110	790
27	1230	1310	e740	e641	1040	1010	655	1290	1370	e1390	1100	493
28	1230	1320	e720	e720	1080	929	664	992	1370	e1380	1100	447
29	1220	1340	e700	e720	---	904	698	895	1350	e1360	1100	446
30	1230	1340	e680	e700	---	916	764	883	1340	e1330	1120	447
31	1240	---	e720	e680	---	947	---	898	---	1320	1120	---
TOTAL	38640	39200	30604	19406	25068	32906	21360	35675	34713	44090	37290	29174
MEAN	1246	1307	987	626	895	1061	712	1151	1157	1422	1203	972
MAX	1340	1340	1350	740	1080	1220	946	1310	1370	1570	1330	1140
MIN	1170	1220	600	474	700	904	465	883	913	1320	1100	446
AC-FT	76640	77750	60700	38490	49720	65270	42370	70760	68850	87450	73960	57870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1999, BY WATER YEAR (WY)

MEAN	467	477	484	444	400	407	451	580	933	1185	1019	688
MAX	2039	2134	1788	1340	1710	1707	1678	2106	3413	2918	1955	1696
(WY)	1984	1984	1985	1924	1985	1985	1986	1986	1986	1983	1983	1984
MIN	35.7	58.0	58.1	36.4	29.8	25.4	84.5	184	340	516	511	43.2
(WY)	1978	1935	1936	1936	1936	1936	1990	1989	1932	1938	1936	1977

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1923 - 1999	
ANNUAL TOTAL	395360		388126			
ANNUAL MEAN	1083		1063		631	
HIGHEST ANNUAL MEAN					1733	1984
LOWEST ANNUAL MEAN					266	1945
HIGHEST DAILY MEAN	1690	Jul 14	1570	Jul 20	4280	Jun 21 1986
LOWEST DAILY MEAN	391	May 30	446	Sep 29	23	Mar 14 1936
ANNUAL SEVEN-DAY MINIMUM	428	May 27	526	Jan 19	23	Mar 11 1936
ANNUAL RUNOFF (AC-FT)	784200		769800		457400	
10 PERCENT EXCEEDS	1390		1340		1340	
50 PERCENT EXCEEDS	1170		1110		520	
90 PERCENT EXCEEDS	656		654		78	

e Estimated

BEAR RIVER BASIN

10068500 BEAR RIVER AT PESCADERO, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Miscellaneous temperature and conductance 1967-1968, December 1972-1991, November 1998 to September 30, 1999.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1998 to September 1999.

INSTRUMENTATION.--Temperature data logger November 1998 to September 1999.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 22.8 °C Jul 27, 28, Aug 9, 1999; minimum, 0.0 °C Dec 9-11, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 22.8 °C Jul 27, 28, Aug 9; minimum, 0.0 °C Dec 9-11.

WATER TEMPERATURE, DEGREES CELSIUS, 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	---	---	---	---	---	---	4.5	3.9	4.2	.1	.1	.1
2	---	---	---	---	---	---	4.6	4.2	4.4	.1	.1	.1
3	---	---	---	---	---	---	5.0	4.0	4.4	.1	.1	.1
4	---	---	---	---	---	---	4.4	2.9	3.6	.1	.1	.1
5	---	---	---	---	---	---	2.9	1.2	2.1	.1	.1	.1
6	---	---	---	---	---	---	1.2	.5	.7	.1	.1	.1
7	---	---	---	---	---	---	1.0	.4	.6	.1	.1	.1
8	---	---	---	---	---	---	1.2	.7	.8	.1	.1	.1
9	---	---	---	---	---	---	.9	.0	.3	.1	.1	.1
10	---	---	---	---	---	---	.2	.0	.1	.1	.1	.1
11	---	---	---	---	---	---	.5	.0	.2	.1	.1	.1
12	---	---	---	---	---	---	1.0	.2	.6	.1	.1	.1
13	---	---	---	---	---	---	1.3	.4	.8	.1	.1	.1
14	---	---	---	4.0	2.8	3.4	1.2	.5	.9	.1	.1	.1
15	---	---	---	4.0	3.4	3.7	1.0	.2	.7	.2	.1	.1
16	---	---	---	4.2	3.1	3.6	.9	.1	.4	.2	.1	.1
17	---	---	---	4.5	3.4	4.0	1.0	.1	.5	.2	.1	.1
18	---	---	---	4.3	3.6	4.0	.9	.1	.4	.1	.1	.1
19	---	---	---	3.7	3.1	3.3	.1	.1	.1	.2	.1	.1
20	---	---	---	3.2	2.5	2.8	.2	.1	.1	.2	.1	.1
21	---	---	---	3.4	2.6	2.9	.1	.1	.1	.2	.1	.1
22	---	---	---	3.9	3.2	3.5	.1	.1	.1	.2	.1	.1
23	---	---	---	3.7	2.9	3.3	.1	.1	.1	.4	.1	.2
24	---	---	---	3.9	3.2	3.5	.1	.1	.1	.4	.1	.2
25	---	---	---	3.6	3.0	3.2	.1	.1	.1	.2	.1	.1
26	---	---	---	3.1	2.5	2.8	.1	.1	.1	.2	.1	.1
27	---	---	---	3.6	2.5	3.0	.1	.1	.1	.2	.1	.1
28	---	---	---	3.7	3.1	3.4	.1	.1	.1	.2	.1	.1
29	---	---	---	3.6	3.1	3.4	.1	.1	.1	.1	.1	.1
30	---	---	---	4.5	3.2	3.8	.1	.1	.1	.1	.1	.1
31	---	---	---	---	---	---	.1	.1	.1	.1	.1	.1
MONTH	---	---	---	---	---	---	5.0	.0	.9	.4	.1	.1

10068500 BEAR RIVER AT PESCADERO, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, 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	.1	.1	2.9	2.1	2.4	4.0	2.8	3.5	10.8	8.8	9.8
2	.1	.1	.1	2.1	1.0	1.7	5.3	3.2	4.1	10.8	10.2	10.4
3	.1	.1	.1	2.5	1.3	1.8	5.3	3.9	4.6	10.2	9.0	9.7
4	.1	.1	.1	2.3	1.3	1.8	5.7	4.2	4.8	9.0	7.5	8.1
5	.1	.1	.1	2.0	.5	1.2	5.6	4.6	5.0	7.8	6.8	7.4
6	.1	.1	.1	1.3	.5	1.0	6.1	5.1	5.5	9.3	6.8	8.1
7	.1	.1	.1	2.0	1.0	1.4	6.7	5.1	5.9	11.6	9.1	10.2
8	.1	.1	.1	2.3	1.0	1.6	7.5	6.1	6.6	11.0	10.1	10.7
9	.1	.1	.1	2.1	1.3	1.8	6.7	4.6	5.9	10.2	9.2	9.7
10	.1	.1	.1	2.8	1.2	1.8	6.1	3.9	4.9	9.2	8.5	8.8
11	.1	.1	.1	2.6	1.4	1.9	7.6	5.0	6.1	9.9	7.8	8.9
12	.1	.1	.1	2.1	.7	1.3	9.1	6.2	7.5	10.0	9.0	9.6
13	.1	.1	.1	2.8	1.0	1.8	10.2	7.5	8.5	10.0	9.1	9.6
14	.1	.1	.1	3.4	1.5	2.3	8.7	7.2	7.9	10.8	9.0	9.8
15	.1	.1	.1	4.0	2.1	3.0	8.7	6.2	7.4	11.1	9.8	10.5
16	.1	.1	.1	4.3	2.3	3.3	8.5	6.7	7.5	10.8	9.6	10.2
17	.1	.1	.1	4.0	2.0	3.1	10.0	7.0	8.4	11.9	9.0	10.4
18	.1	.1	.1	4.5	2.8	3.7	12.2	8.8	10.4	13.3	10.7	11.9
19	.1	.1	.1	4.8	2.9	3.9	12.5	10.5	11.4	13.3	12.1	12.7
20	.1	.1	.1	4.8	3.1	4.0	11.4	10.1	10.9	14.8	12.2	13.6
21	.1	.1	.1	4.8	3.4	4.2	10.2	8.8	9.4	15.8	14.1	14.9
22	.1	.1	.1	5.4	3.7	4.7	8.8	7.8	8.4	16.6	14.4	15.5
23	.1	.1	.1	5.0	3.2	4.3	7.8	6.6	7.1	17.9	15.3	16.5
24	.9	.1	.3	5.3	2.9	4.2	8.4	5.9	7.1	18.2	16.9	17.5
25	1.5	.5	1.0	5.7	3.7	4.8	7.9	6.8	7.6	17.6	16.4	17.0
26	1.8	.7	1.2	5.4	4.3	4.8	8.4	6.2	7.3	17.1	15.0	16.1
27	1.8	.5	1.2	5.0	3.5	4.3	9.5	8.1	8.7	17.4	15.2	16.4
28	2.5	1.2	1.8	3.7	2.6	3.2	10.8	8.8	9.6	18.7	16.3	17.3
29	---	---	---	5.0	2.8	3.9	10.8	9.5	10.1	17.7	16.2	17.2
30	---	---	---	5.0	4.3	4.5	10.2	9.2	9.8	16.4	14.2	15.6
31	---	---	---	4.3	3.5	4.0	---	---	---	14.2	12.9	13.6
MONTH	2.5	.1	.3	5.7	.5	3.0	12.5	2.8	7.4	18.7	6.8	12.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	14.5	12.4	13.5	18.5	16.1	17.3	22.1	19.8	21.0	19.0	16.9	17.9
2	14.1	13.2	13.8	19.8	17.4	18.6	22.6	20.1	21.4	18.0	16.9	17.3
3	14.5	12.8	13.6	20.5	18.0	19.3	22.5	20.8	21.7	17.1	14.9	16.0
4	14.4	13.1	13.8	20.8	19.2	20.0	22.0	20.3	21.2	15.8	14.2	14.8
5	13.1	12.1	12.5	20.8	18.7	19.7	22.1	20.6	21.4	16.8	14.2	15.5
6	13.0	12.1	12.6	21.5	19.2	20.3	22.5	20.3	21.4	17.5	15.2	16.3
7	14.1	12.4	13.2	21.8	20.5	21.1	22.5	20.3	21.4	17.1	15.3	16.2
8	14.1	12.7	13.4	21.2	19.8	20.6	22.6	20.3	21.6	16.9	14.5	15.8
9	14.7	11.9	13.3	21.3	19.3	20.4	22.8	20.3	21.6	17.1	14.7	15.9
10	15.2	13.9	14.4	21.5	19.3	20.5	22.1	20.6	21.4	16.9	15.5	16.3
11	16.1	13.6	14.9	21.8	19.8	20.8	21.1	19.2	20.1	16.8	15.0	15.9
12	17.7	15.6	16.6	22.1	20.0	21.1	19.3	18.4	18.8	16.4	14.2	15.3
13	19.0	16.9	17.9	22.5	20.6	21.6	20.0	17.9	18.9	16.4	14.1	15.3
14	19.8	18.4	19.0	22.1	21.0	21.4	20.3	18.2	19.4	16.6	14.4	15.6
15	20.6	19.0	19.7	21.2	20.0	20.6	20.1	18.2	19.3	16.9	14.5	15.8
16	21.0	19.5	20.1	20.4	18.9	19.4	20.3	18.0	19.2	17.1	15.0	16.1
17	20.1	19.0	19.7	19.0	17.9	18.5	21.1	18.2	19.7	16.9	15.2	16.1
18	20.1	18.0	19.1	19.8	17.5	18.7	21.8	18.8	20.3	17.2	15.2	16.2
19	20.1	19.0	19.5	20.1	18.5	19.3	21.6	19.5	20.6	16.3	14.8	15.6
20	20.8	18.7	19.7	21.0	18.8	19.9	21.0	19.3	20.2	15.8	13.9	14.8
21	20.2	19.4	19.8	21.3	19.5	20.4	21.0	19.2	20.0	16.3	14.2	15.2
22	20.0	18.5	19.2	21.8	19.8	20.8	21.8	19.3	20.5	16.0	14.2	15.2
23	20.1	17.9	19.1	22.0	19.7	20.9	22.1	19.5	20.8	15.6	14.2	15.1
24	20.5	18.2	19.3	22.0	20.3	21.2	21.2	19.8	20.5	15.8	14.7	15.2
25	20.1	18.8	19.5	22.0	19.8	20.9	21.1	18.8	20.0	15.3	13.6	14.6
26	19.2	17.4	18.4	22.3	19.8	21.1	21.5	18.8	20.2	14.4	11.8	12.9
27	18.8	16.9	18.0	22.8	20.3	21.6	21.3	19.5	20.4	11.8	9.5	10.6
28	18.7	16.6	17.7	22.8	20.8	21.8	21.5	19.3	20.4	10.0	8.1	9.1
29	18.5	17.1	17.9	22.5	21.1	21.9	21.5	19.2	20.3	10.2	8.1	9.0
30	18.0	17.2	17.5	22.0	20.8	21.5	20.6	19.2	19.7	10.7	8.4	9.5
31	---	---	---	22.0	20.5	21.3	19.3	16.8	18.0	---	---	---
MONTH	21.0	11.9	16.9	22.8	16.1	20.4	22.8	16.8	20.4	19.0	8.1	14.8

BEAR RIVER BASIN

10075000 BEAR RIVER AT SODA SPRINGS, ID

LOCATION.--Lat 42°36'50", long 111°34'58", in NW¼SW¼NW¼ sec.29, T.9 S., R.42 E., Caribou County, Hydrologic Unit 16010202, on left bank 800 ft upstream from Bailey Creek road bridge, and 2 mi south of Soda Springs.

DRAINAGE AREA.--3,972 mi^2.

PERIOD OF RECORD.--May to September 1896, May, June 1898, and October 1953 to current year in reports of Geological Survey. Irrigation season only during 1944-49, 1951-53 in reports of Bear River Hydrometric Data (Geological Survey open-file report).

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,760 ft above sea level, from topographic map. May 25 to Oct. 2, 1896, May 22 to July 1, 1898, staff gage at different datum. During irrigation season 1944-49, 1950-53, water-stage recorder at site 800 ft downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by upstream reservoirs, diversions for irrigation and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--46 years, 727 ft^3/s, 526,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft^3/s June 9, 15, 1896, gage height, 8.40 ft, datum then in use; minimum, 41 ft^3/s Nov. 16, 1979.

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	1370	1350	1410	e921	e888	e1280	1110	1180	1320	1450	1380	1180
2	1390	1340	1410	e894	e874	e1280	1070	1400	1310	1450	1350	1180
3	1420	1330	1400	e881	e894	e1280	1030	1510	1350	1450	1330	1190
4	1470	1360	1400	e903	e886	1250	1030	1450	1340	1480	1300	1200
5	1460	1380	1380	e905	e892	1240	1030	1360	1380	1500	1280	1210
6	1440	1420	1360	e899	e985	1220	1030	1310	1430	1480	1320	1210
7	1440	1410	1360	e879	e1030	1220	1060	1300	1510	1470	1330	1200
8	1420	1430	e1380	e881	e1010	1160	1130	1330	1510	1450	1320	1180
9	1400	1420	e1220	e910	e1020	1210	1080	1370	1470	1470	1320	1180
10	1380	1390	e1170	e933	e953	1240	912	1390	1420	1510	1350	1180
11	1350	1400	e1180	e927	e959	1260	892	1430	1380	1520	1370	1180
12	1340	1400	e1180	e900	e944	1250	927	1460	1330	1510	1370	1160
13	1340	1390	e1230	e880	e950	1260	978	1510	1410	1510	1350	1150
14	1330	1390	e1020	e889	e957	1210	972	1510	1530	1500	1340	1140
15	1320	1390	e984	e821	e949	1180	922	1510	1530	1500	1310	1130
16	1300	1390	e970	e687	e941	1110	880	1510	1470	1480	1300	1130
17	1270	1400	e914	e616	e955	1020	819	1470	1440	1480	1290	1130
18	1300	1430	e860	e617	e947	1020	728	1450	1440	1500	1270	1120
19	1310	1420	e729	e601	e960	1050	691	1450	1420	1530	1250	1120
20	1310	1410	e574	e596	e952	1060	710	1440	1370	1550	1240	1140
21	1310	1400	e548	e563	e937	1090	794	1400	1300	1540	1220	1140
22	1310	1390	e670	e535	e951	1150	861	1350	1250	1530	1210	1080
23	1340	1390	e880	e524	e950	1200	854	1370	1340	1490	1200	981
24	1340	1400	e1080	e519	e949	1220	839	1400	1430	1450	1190	965
25	1350	1390	e1200	e519	e949	1200	859	1490	1410	1420	1180	942
26	1360	1380	e1200	e514	e1110	1290	872	1650	1450	1400	1170	905
27	1350	1370	e1190	e585	e1200	1290	892	1670	1500	1390	1170	685
28	1340	1380	e1070	e661	e1280	1150	892	1500	1500	1380	1170	486
29	1330	1420	e931	e768	---	1070	948	1310	1480	1380	1160	506
30	1360	1420	e925	e869	---	1080	1030	1310	1460	1390	1180	505
31	1350	---	e919	e876	---	1110	---	1380	---	1390	1200	---
TOTAL	42100	41790	33744	23473	27272	36650	27842	44170	42480	45550	39420	31505
MEAN	1358	1393	1089	757	974	1182	928	1425	1416	1469	1272	1050
MAX	1470	1430	1410	933	1280	1290	1130	1670	1530	1550	1380	1210
MIN	1270	1330	548	514	874	1020	691	1180	1250	1380	1160	486
AC-FT	83510	82890	66930	46560	54090	72700	55220	87610	84260	90350	78190	62490

CAL YR 1998 TOTAL 443411 MEAN 1215 MAX 1700 MIN 360 AC-FT 879500
WTR YR 1999 TOTAL 435996 MEAN 1195 MAX 1670 MIN 486 AC-FT 864800

e Estimated

BEAR RIVER BASIN

10079500 BEAR RIVER AT ALEXANDER, ID

LOCATION.--Lat 42°38'42", long 111°41'51", in NE¼SW¼NW¼ sec.17, T.9 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 600 ft downstream from Soda hydroelectric plant of Utah Power & Light Co., 0.5 mi southeast of Alexander, and 5 mi downstream from Soda Creek.

DRAINAGE AREA.--4,099 mi^2.

PERIOD OF RECORD.--March 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,650 ft above sea level from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co. under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--87 years, 810 ft^3/s, 586,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,740 ft^3/s Mar. 31, 1911; maximum gage height, 15.95 ft, Dec. 11, 1919 (backwater from ice); minimum, 14 ft^3/s Oct. 22, 1990.

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	1470	1450	1610	980	715	1510	1170	1020	1480	1460	1430	1250
2	1470	1450	1610	1000	790	1450	1220	1190	1540	1450	1410	1240
3	1460	1450	1610	954	851	1450	1250	1610	1530	1430	1410	1260
4	1460	1460	1610	927	933	1460	1240	1630	1510	1430	1410	1260
5	1460	1460	1610	928	979	1460	1170	1630	1500	1420	1410	1260
6	1470	1480	1620	928	978	1400	1140	1620	1500	1480	1410	1260
7	1480	1500	1520	929	1010	1390	1140	1600	1500	1500	1410	1280
8	1530	1500	1480	930	1090	1270	1250	1620	1500	1480	1410	1290
9	1560	1600	1420	922	1110	1250	1310	1620	1510	1470	1400	1290
10	1550	1610	1190	959	1110	1380	1130	1610	1510	1480	1310	1310
11	1540	1590	1090	998	1110	1500	1070	1640	1550	1480	1360	1310
12	1600	1590	1180	1010	1100	1500	1070	1650	1630	1510	1420	1300
13	1600	1600	1330	1010	1100	1500	1070	1640	1630	1520	1420	1290
14	641	1560	1270	907	932	1480	1070	1610	1630	1530	1430	1290
15	1430	1560	1200	828	1110	1420	1070	1640	1640	1530	1420	1150
16	1410	1590	1050	829	1080	1390	1070	1660	1650	1510	1420	1290
17	1360	1560	977	778	1090	1260	1060	1650	1680	1500	1380	1230
18	1330	1600	1010	721	1090	1190	933	1640	1630	1500	1360	1210
19	1330	1560	988	698	1100	1190	817	1640	1550	1510	1360	1240
20	1340	1560	852	698	1090	1300	791	1560	1520	1550	1350	1250
21	1340	1590	639	699	1100	1370	791	1540	1390	1560	1350	1250
22	1350	1600	580	700	1090	1370	906	1540	1300	1510	1350	1250
23	1430	1560	580	700	1090	1370	960	1540	1180	1500	1300	1160
24	1520	1560	581	701	1100	1370	949	1520	1430	1510	1270	1210
25	1560	1560	581	670	1110	1360	947	1500	1510	1520	1260	1200
26	1550	1540	582	558	1360	1430	946	1520	1500	1480	1250	1200
27	1140	1520	635	625	1520	1480	991	1530	1490	1470	1260	1190
28	1220	1540	772	688	1510	1480	1020	1540	1490	1470	1250	748
29	1450	1540	850	689	---	1480	1020	1540	1480	1450	1250	473
30	1450	1590	950	689	---	1270	1020	1540	1480	1450	1240	481
31	1450	---	979	690	---	1170	---	1560	---	1460	988	---
TOTAL	43951	46330	33956	25343	30248	42900	31591	48350	45440	46120	41698	35422
MEAN	1418	1544	1095	818	1080	1384	1053	1560	1515	1488	1345	1181
MAX	1600	1610	1620	1010	1520	1510	1310	1660	1680	1560	1430	1310
MIN	641	1450	580	558	715	1170	791	1020	1180	1420	988	473
AC-FT	87180	91900	67350	50270	60000	85090	62660	95900	90130	91480	82710	70260

CAL YR 1998 TOTAL 481139 MEAN 1318 MAX 1920 MIN 580 AC-FT 954300
WTR YR 1999 TOTAL 471349 MEAN 1291 MAX 1680 MIN 473 AC-FT 934900

10086500 BEAR RIVER BELOW UTAH POWER & LIGHT CO.'S TAILRACE, AT ONEIDA, ID

LOCATION.--Lat 42°16'00", long 111°45'04", in NE¼SE¼NW¼ sec.26, T.13 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 200 ft downstream from tailrace of Oneida plant, and 6 mi south of Cleveland.

DRAINAGE AREA.--4,456 mi^2.

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only October 1921 to September 1945, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,800 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--78 years, 890 ft^3/s, 644,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,480 ft^3/s May 8, 1922; minimum, 3.0 ft^3/s June 13, 1978.

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	1800	1520	1540	1100	921	1750	1430	1780	2030	1080	1070	1220
2	1530	1520	1740	1140	852	1720	1430	1610	1620	1270	1240	1140
3	1660	1630	1690	1170	1050	1710	1440	1730	2040	918	1230	1290
4	1540	1710	1680	1140	1150	1620	1450	2080	2010	1100	1230	1120
5	2080	1520	1700	1100	1110	1550	1450	1990	1920	1100	1160	1100
6	2300	1570	1710	1110	1120	1690	1500	1950	1870	1240	1330	1110
7	581	1640	1730	1130	1220	1760	1550	1840	1900	1170	1150	1350
8	1650	1660	1740	1130	1740	1410	1150	1860	1940	1210	1070	1360
9	1880	1660	1480	995	1390	1600	1330	1910	1940	1150	1260	1300
10	1660	1730	1560	1160	1590	1470	1610	1890	1900	994	1370	1290
11	1850	1730	1560	1090	1680	1490	1330	1890	1830	1020	1090	1360
12	2130	1720	1530	1140	724	1770	1180	1890	1830	1260	1280	1310
13	2140	1720	819	1140	1570	1730	1350	1980	1830	1030	1340	1310
14	503	1700	1410	951	1500	1720	1400	1890	1830	1300	1110	1310
15	1060	1660	1430	1360	1080	1780	1340	1800	1830	1070	1180	1300
16	1830	1830	1310	1050	1350	1590	1230	2100	1760	1520	1290	1190
17	1390	1670	1210	1040	1350	1540	1540	1860	1770	964	1370	1210
18	1580	1700	1120	977	1340	1350	1230	1810	1790	1170	1310	1390
19	1660	1710	1020	929	1420	1260	1380	2000	1630	1310	1210	1240
20	1410	1730	918	1060	1460	1260	934	1960	1690	1160	1200	1140
21	1490	1730	739	1010	1290	1690	1460	1930	1630	1400	1080	1290
22	1590	1730	786	872	1280	2040	211	1910	1380	1260	1170	1360
23	1740	1730	777	852	1260	989	234	1810	1260	1340	1250	1320
24	1840	1620	666	945	1360	1740	529	1920	1040	1010	1190	1170
25	1660	1730	748	974	1210	1530	651	1930	1170	1030	1290	1190
26	1080	1710	822	975	1500	1670	938	1980	970	1400	1110	1310
27	1700	1630	791	965	1480	1740	1390	2010	1100	1040	1320	1280
28	1510	1670	910	701	1830	1710	1480	2010	1600	1210	1040	1160
29	1330	1630	1140	517	---	1700	1400	1820	1010	1360	1010	879
30	1670	1770	1150	734	---	1700	1510	1730	1160	1050	1260	697
31	1630	---	1310	914	---	1450	---	1830	---	1240	1220	---
TOTAL	49474	50280	38736	31371	36827	49729	37057	58700	49280	36376	37430	36696
MEAN	1596	1676	1250	1012	1315	1604	1235	1894	1643	1173	1207	1223
MAX	2300	1830	1740	1360	1830	2040	1610	2100	2040	1520	1370	1390
MIN	503	1520	666	517	724	989	211	1610	970	918	1010	697
AC-FT	98130	99730	76830	62220	73050	98640	73500	116400	97750	72150	74240	72790

CAL YR 1998 TOTAL 525274 MEAN 1439 MAX 2300 MIN 503 AC-FT 1042000
WTR YR 1999 TOTAL 510916 MEAN 1400 MAX 2300 MIN 211 AC-FT 1013000

BEAR RIVER BASIN

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

LOCATION.--Lat 42°00'47", long 111°55'14", in NW¼NE¼ sec.29, T.16 S., R.39 E., Franklin County, Idaho, Hydrologic Unit 16010202, on left bank 1,050 ft downstream from inlet canal to Cub River pumps, 1.1 mi downstream from Weston Creek, 1.8 mi upstream from Idaho-Utah State line, and 3.5 mi southeast of Weston.

DRAINAGE AREA.--4,881 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1970 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,420 ft above sea level, from topographic map. Prior to Sept. 10, 1982 at datum 2.00 ft higher. Sept. 10, 1982 to Sept. 30, 1985 at datum 10.0 ft lower.

REMARKS.--Records fair except for estimated daily discharges which are poor. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,870 ft^3/s June 14, 1984, gage height, 9.20 ft; minimum daily, 48 ft^3/s May 29, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,640 ft^3/s May 4, gage height, 15.41 ft; minimum daily, 105 ft^3/s Oct. 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	1120	e639	e1880	1550	1040	1950	1560	2100	2470	947	1140	1210
2	921	e895	e1870	1130	993	1850	1560	2140	e2400	1040	1150	1070
3	470	e1050	e1890	1350	1000	1870	1570	2000	e2320	1200	975	1090
4	395	e820	1930	1280	1250	1810	1590	e2580	e2360	929	1100	1280
5	704	e838	1800	1240	1200	1690	1580	e2450	e2250	1080	1040	1220
6	958	e714	1850	1210	1200	1680	1690	2390	e2210	924	1070	1180
7	433	e1230	1780	1250	1320	2060	1530	2290	e2240	981	1180	1330
8	684	e1300	2080	1250	1670	1490	1710	2190	e2320	957	948	1250
9	791	e1640	1660	1170	1730	1810	1220	2270	e2360	940	1050	1120
10	675	e1740	1750	1280	1660	1660	1810	2220	e2460	861	1010	1410
11	720	e1700	1710	1180	1790	1600	1540	2190	e2390	974	1070	1300
12	788	e1760	1700	1250	1540	1810	1320	2170	e2350	716	989	1250
13	980	e1750	1570	1260	1150	1880	1380	2200	e2320	1140	1150	1290
14	387	e1740	1030	1250	e1190	1760	1590	2300	e2310	960	1190	1230
15	e150	e1740	1760	1290	e1220	2040	1450	2120	e2230	938	1200	1250
16	e105	e1730	1420	1290	e1290	1670	1470	2350	e2050	1170	1100	1170
17	e517	e1780	1500	1130	e1370	1690	1480	2220	e1820	1040	1110	1140
18	e635	e1800	1250	1160	e1390	1580	1670	2140	e1940	1100	1090	1170
19	e753	e1810	1210	1080	1470	1400	1440	2290	2010	1010	1040	1340
20	e801	e1830	1250	1170	1600	1400	1390	2140	2020	1100	991	1240
21	e828	e1780	1650	1240	1490	1570	1320	2310	1860	1060	1050	1150
22	e918	e1830	1600	1070	1410	2180	1380	2300	1700	1150	1090	1370
23	e587	e1800	e1760	1000	1410	1850	1430	2130	1400	1130	1020	1210
24	e993	e1810	e1900	1040	1330	1520	1550	2260	1210	1080	990	1420
25	e1130	e1830	e2130	1090	1490	1850	1510	2280	1120	1020	1010	1120
26	e1120	e1820	2230	1090	1600	1890	1650	2320	1140	893	985	1220
27	e855	e1810	2100	1090	1520	1860	1590	2350	1040	1100	981	1270
28	e796	e1770	2050	1060	1850	1870	1710	2350	1430	984	1040	1170
29	e689	e1860	1980	625	---	1790	1780	2310	1010	949	1120	1030
30	e618	e1840	1720	804	---	1840	1940	2150	1180	1300	980	810
31	e1180	---	1300	968	---	1680	---	2210	---	1100	1200	---
TOTAL	22701	46656	53310	35847	39173	54600	46410	69720	57920	31773	33059	36310
MEAN	732	1555	1720	1156	1399	1761	1547	2249	1931	1025	1066	1210
MAX	1180	1860	2230	1550	1850	2180	1940	2580	2470	1300	1200	1420
MIN	105	639	1030	625	993	1400	1220	2000	1010	716	948	810
AC-FT	45030	92540	105700	71100	77700	108300	92050	138300	114900	63020	65570	72020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1999, BY WATER YEAR (WY)

MEAN	984	1044	1065	1046	1057	1263	1503	1652	1476	1076	979	1001
MAX	2850	2983	2552	1904	2556	3264	3594	3968	4263	3442	2416	2545
(WY)	1984	1984	1985	1984	1986	1986	1986	1986	1986	1983	1984	1986
MIN	250	298	310	412	351	351	403	357	333	393	461	192
(WY)	1993	1993	1982	1993	1993	1991	1992	1988	1989	1995	1993	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1971 - 1999	
ANNUAL TOTAL	551554		527479			
ANNUAL MEAN	1511		1445		1179	
HIGHEST ANNUAL MEAN					2728	1984
LOWEST ANNUAL MEAN					505	1992
HIGHEST DAILY MEAN	2610	Apr 24	2580	May 4	4830	Jun 21 1983
LOWEST DAILY MEAN	105	Oct 16	105	Oct 16	48	May 29 1988
ANNUAL SEVEN-DAY MINIMUM	478	Oct 14	478	Oct 14	69	Oct 31 1981
ANNUAL RUNOFF (AC-FT)	1094000		1046000		854100	
10 PERCENT EXCEEDS	2220		2190		2300	
50 PERCENT EXCEEDS	1570		1340		965	
90 PERCENT EXCEEDS	842		927		334	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1971 to June 1973, November 1990 to September 1991, October 1993 to September 1994, April to September 1996, April to October 1999 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 23 to September 16, 1996, May 1 to June 18, 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 25.1 °C July 31, August 15, 1996.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 20.4 °C June 18.

WATER-QUALITY DATA, APRIL 1999 to OCTOBER 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)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
20...	1325	1230	741	8.4	10.0	9.5	19	8.8	92	71	60
MAY											
24...	1335	2400	605	8.4	23.0	14.2	75	8.2	95	120	63
JUN											
23...	1302	1250	600	8.4	21.9	17.7	15	8.4	104	85	32
AUG											
09...	1055	1380	732	8.3	25.9	19.9	9.3	7.9	101	180	140
SEP											
21...	1220	907	773	8.4	14.2	14.6	4.7	8.3	96	81	100
OCT											
06...	0916	1210	800	8.3	9.5	10.5	2.4	7.5	81	57	150

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ANC POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
21...	300	55	39	45	24	6.5	320	3

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
21...	265	62	55	.23	14	436	.59	1070

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 TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
20...	<.010	.301	.050	.61	.073	.010	198	658
MAY								
24...	<.010	.248	.036	.62	.125	.010	76	492
JUN								
23...	<.010	.273	.025	.49	.110	.023	53	179
AUG								
09...	.010	.242	<.020	.57	.130	.021	109	406
SEP								
21...	<.010	.306	<.020	.41	E.041	<.010	35	86
OCT								
06...	<.010	.295	<.020	.37	E.041	<.010	22	72

E Positive detction, but below stated detection limits.

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		MAY			JUNE	
1	12.8	9.3	11.0	16.9	13.0	14.9
2	12.5	9.6	10.5	16.3	13.3	14.3
3	10.5	9.3	9.8	16.9	13.1	14.9
4	10.8	8.7	9.7	15.8	12.7	13.8
5	11.1	8.2	9.5	13.6	12.7	13.0
6	12.5	8.0	10.2	13.3	11.9	12.7
7	13.3	8.8	11.0	15.5	11.7	13.3
8	12.8	9.3	10.7	15.3	11.7	13.4
9	12.2	9.7	10.9	15.8	11.6	13.6
10	10.7	8.2	9.4	15.5	11.9	13.8
11	12.2	7.9	10.0	16.7	11.9	14.3
12	11.9	8.8	10.5	17.4	12.5	15.0
13	12.1	9.7	10.9	18.3	13.1	15.8
14	12.4	9.3	10.9	18.5	14.1	16.4
15	11.9	9.3	10.3	19.5	14.9	17.3
16	12.5	8.8	10.5	19.5	15.5	17.7
17	13.3	9.0	11.1	18.8	15.8	17.3
18	14.5	10.2	12.3	20.4	16.0	18.0
19	14.2	10.5	12.7	---	---	---
20	15.8	11.0	13.3	---	---	---
21	16.1	12.1	14.2	---	---	---
22	17.2	12.4	14.6	---	---	---
23	18.0	13.3	15.7	---	---	---
24	17.7	13.9	15.9	---	---	---
25	18.0	14.2	16.3	---	---	---
26	17.9	14.5	16.3	---	---	---
27	19.3	14.5	16.8	---	---	---
28	19.5	14.9	17.3	---	---	---
29	18.8	15.6	17.3	---	---	---
30	17.5	14.9	16.0	---	---	---
31	15.0	13.8	14.4	---	---	---
MONTH	19.5	7.9	12.6	---	---	---

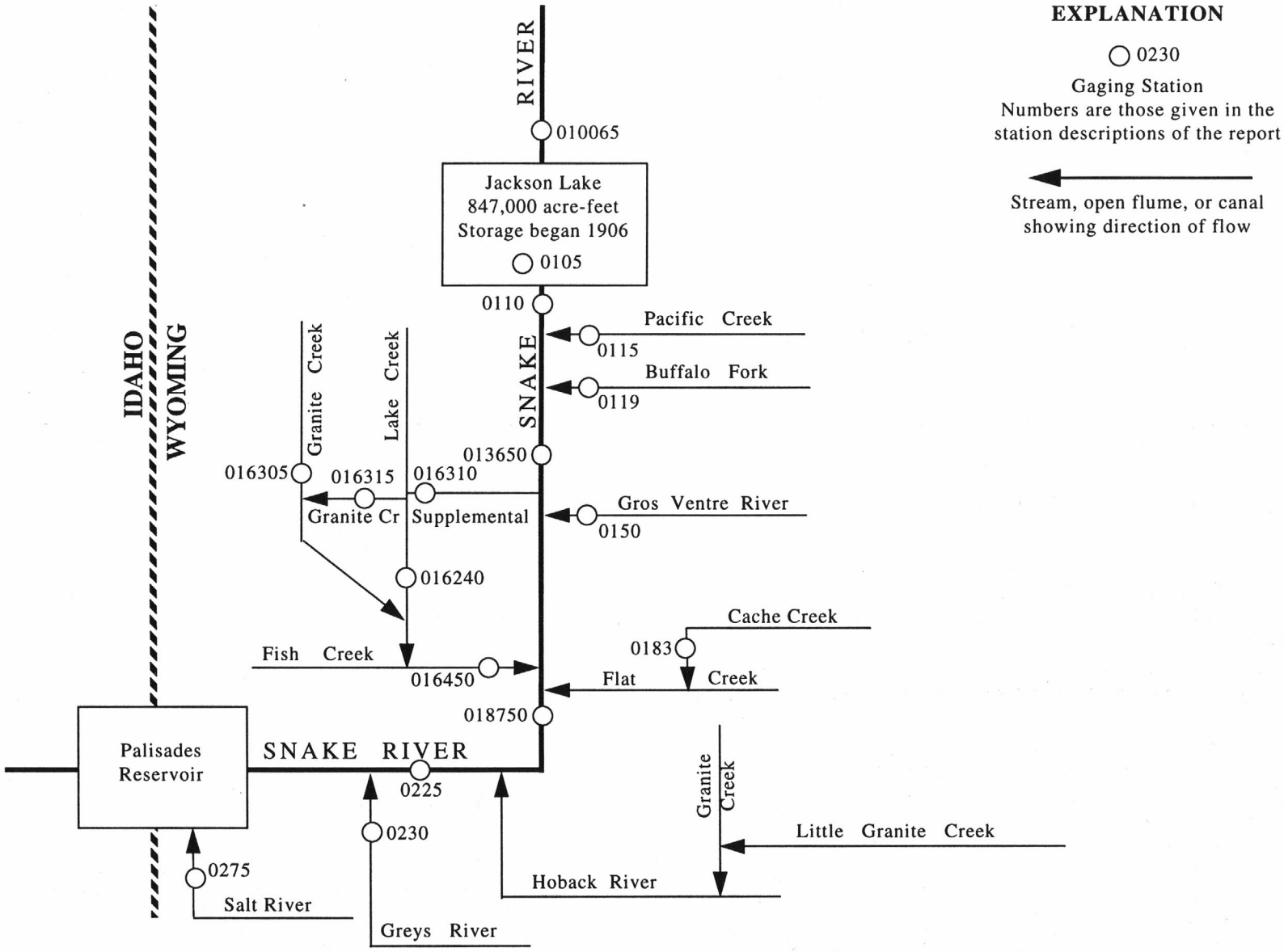


Figure 9. Gaging stations in Snake River basin between Flagg Ranch and Palisades Reservoir

SNAKE RIVER MAIN STEM

13010065 SNAKE RIVER ABOVE JACKSON LAKE AT FLAGG RANCH, WY

LOCATION.--Lat 44°05'21", long 110°41'38", in Hydrologic Unit 17040101, Grand Teton National Park, on left bank 50 ft upstream from State Highway 89 bridge, 2 mi downstream from the south boundary of Yellowstone National Park, 600 ft downstream from the confluence with Sheffield Creek.

DRAINAGE AREA.--486 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1983 to current year. Prior to 1988 water year, published as station 13010200.

GAGE.--Water-stage recorder. Datum of the gage is 6,801.61 ft above sea level, (levels by U.S. Coast and Geodetic Survey). A nonrecording cantilever chain gage was used from 1913-18 at a site 2.5 mi upstream at a different datum. In 1918, an auxiliary chain gage was installed at the current site and read periodically. Water-stage recorder installed July 1921 at the current site at a different datum and operated until July 1925. Records probably not comparable.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,300 ft^3/s June 5, 1996; maximum gage height, 10.75 ft, June 5. 1996, from backwater; minimum, 160 ft^3/s Sept. 5-8, 10, 26-29, 1994, gage height, 3.25 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,490 ft^3/s May 28, gage height, 8.55 ft; minimum daily, 347 ft^3/s Oct. 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	394	376	529	461	438	480	393	1590	5410	3050	735	541
2	405	384	526	448	432	465	371	1810	5950	2890	722	669
3	423	385	532	436	441	454	374	1690	6530	2830	710	655
4	414	371	529	431	430	458	369	1420	5820	2840	708	613
5	397	373	496	427	434	452	365	1210	5580	2590	707	572
6	385	374	472	426	433	440	384	1070	5530	2330	693	538
7	e380	369	476	429	457	436	379	1160	5740	2330	668	517
8	e380	386	469	419	467	440	392	1530	5810	2170	649	505
9	e380	388	453	413	481	438	387	1570	4780	1950	629	497
10	e380	369	448	410	510	427	375	1450	4430	1820	619	489
11	e360	384	438	408	495	420	364	1300	4720	1730	635	482
12	e360	384	450	401	500	411	372	1200	5240	1630	661	474
13	360	376	450	399	484	407	387	1230	5530	1550	647	464
14	357	380	422	391	480	401	402	1180	6160	1470	621	461
15	356	376	422	407	483	404	389	1280	6600	1390	600	454
16	373	371	416	415	478	396	385	1200	6490	1290	581	447
17	367	373	412	423	487	388	396	1100	6550	1270	568	443
18	361	383	406	439	477	374	442	1170	6410	1220	559	439
19	353	373	e380	445	482	381	511	1480	6330	1150	555	442
20	349	371	e380	466	469	389	594	2150	6220	1120	551	439
21	347	391	e360	458	469	399	627	3050	6230	1060	548	433
22	352	441	e360	454	469	390	570	3970	5820	1000	567	429
23	384	463	e360	474	475	382	523	4730	5070	952	539	425
24	410	509	e380	454	477	385	495	5890	4780	913	527	424
25	397	499	e400	e460	474	395	516	6750	4940	878	517	416
26	384	485	408	460	483	411	570	7220	4200	841	508	412
27	376	478	407	464	468	412	658	7730	3520	814	508	406
28	379	509	415	466	463	399	906	7770	3170	795	544	400
29	385	525	448	458	---	404	1040	8110	3090	817	546	394
30	386	528	462	449	---	406	1230	7240	3130	812	522	391
31	388	---	467	446	---	393	---	6710	---	767	595	---
TOTAL	11722	12374	13573	13537	13136	12837	15166	96960	159780	48269	18739	14271
MEAN	378	412	438	437	469	414	506	3128	5326	1557	604	476
MAX	423	528	532	474	510	480	1230	8110	6600	3050	735	669
MIN	347	369	360	391	430	374	364	1070	3090	767	508	391
AC-FT	23250	24540	26920	26850	26060	25460	30080	192300	316900	95740	37170	28310
CFSM	.78	.85	.90	.90	.97	.85	1.04	6.44	11.0	3.20	1.24	.98
IN.	.90	.95	1.04	1.04	1.01	.98	1.16	7.42	12.23	3.69	1.43	1.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1999, BY WATER YEAR (WY)

MEAN	367	369	370	365	353	360	710	3035	3403	975	458	366
MAX	679	607	531	720	469	506	1509	5484	6701	1633	861	644
(WY)	1984	1984	1997	1997	1999	1986	1990	1997	1996	1995	1997	1997
MIN	185	213	247	275	267	279	424	1818	827	331	202	168
(WY)	1989	1988	1988	1992	1989	1988	1993	1987	1992	1988	1988	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1984 - 1999	
ANNUAL TOTAL	391594		430364			
ANNUAL MEAN	1073		1179		929	
HIGHEST ANNUAL MEAN					1538	1997
LOWEST ANNUAL MEAN					526	1988
HIGHEST DAILY MEAN	5160	May 30	8110	May 29	11300	Jun 5 1996
LOWEST DAILY MEAN	347	Oct 21	347	Oct 21	161	Sep 6 1994
ANNUAL SEVEN-DAY MINIMUM	357	Oct 16	357	Oct 16	163	Sep 4 1994
ANNUAL RUNOFF (AC-FT)	776700		853600		672900	
ANNUAL RUNOFF (CFSM)	2.21		2.43		1.91	
ANNUAL RUNOFF (INCHES)	29.97		32.94		25.97	
10 PERCENT EXCEEDS	3320		3700		2520	
50 PERCENT EXCEEDS	476		468		407	
90 PERCENT EXCEEDS	380		378		268	

e Estimated.

SNAKE RIVER MAIN STEM

13010065 SNAKE RIVER ABOVE JACKSON LAKE AT FLAGG RANCH, WY
(National water-quality assessment station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 1986 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June to September 1994, June to September 1995, May to September 1996.

INSTRUMENTATION:--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 22.5 °C July 22, 24, Aug. 11, 1994.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

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 WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	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)
OCT												
22...	0930	545	218	7.9	6.0	-2.0	595	9.5	98	47	15	2.6
DEC												
17...	1000	468	231	7.2	2.5	1.0	595	10.7	101	44	14	2.5
FEB												
19...	0945	400	250	7.7	2.0	-6.0	595	10.8	100	46	14	2.5
APR												
29...	0805	1310	187	7.9	2.0	0.5	600	10.8	99	54	16	3.2
JUN												
05...	1000	3300	105	7.4	5.0	4.0	600	11.8	118	35	11	2.0
AUG												
11...	1430	540	215	8.4	18.0	23.0	605	8.40	112	51	16	2.8

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	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 CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
OCT												
22...	22	1	3.5	61	21	13	2.1	32	155	148	0.21	228
DEC												
17...	26	2	3.9	63	23	14	2.3	33	172	157	0.23	217
FEB												
19...	28	2	4.2	66	24	16	2.4	35	185	167	0.25	200
APR												
29...	14	0.8	2.1	66	13	6.7	1.1	19	129	115	0.18	456
JUN												
05...	7.5	0.6	1.3	41	7.2	3.5	0.7	15	79	72	0.11	704
AUG												
11...	21	1	3.4	63	21	11	1.8	29	145	144	0.20	211

DATE	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 TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT											
22...	<0.05	<0.01	<0.2	<0.01	<0.01	18	5	1.3	<0.2	3	4.4
DEC											
17...	<0.05	<0.02	<0.1	<0.01	0.01	12	<4	1.1	<0.2	6	6.9
FEB											
19...	0.12	0.03	<0.1	<0.01	0.02	12	<4	1.2	<0.2	6	6.5
APR											
29...	<0.05	0.02	0.3	0.08	0.03	22	9	2.7	0.5	106	375
JUN											
05...	<0.05	0.02	0.1	0.02	0.01	12	5	2.3	0.5	55	490
AUG											
11...	<0.05	0.05	<0.1	<0.01	0.01	17	<4	1.3	0.3	3	4.4

SNAKE RIVER MAIN STEM

13010065 SNAKE RIVER ABOVE JACKSON LAKE AT FLAGG RANCH, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)
OCT											
22...	0930	545	6.0	-2.0	<0.002	<0.002	E0.0028	<0.002	<0.001	<0.002	<0.002
JUN											
05...	1000	3300	5.0	4.0	<0.002	<0.002	<0.001	<0.002	<0.001	<0.002	<0.002

DATE	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	P,P' DDE DISSOLV (UG/L) (34653)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
OCT										
22...	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001	<0.003	<0.017
JUN										
05...	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002	<0.001	<0.003	<0.017

DATE	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)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	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)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)
OCT										
22...	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005	<0.002	<0.006
JUN										
05...	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005	<0.002	<0.006

DATE	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
OCT										
22...	<0.004	<0.004	<0.003	<0.004	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003
JUN										
05...	<0.004	<0.004	<0.003	<0.004	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003

DATE	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)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT										
22...	<0.007	<0.004	<0.013	<0.005	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002
JUN										
05...	<0.007	<0.004	<0.013	<0.005	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002

E Positive detection, but below stated detection limit.

SNAKE RIVER MAIN STEM

13010500 JACKSON LAKE NEAR MORAN, WY

LOCATION.--Lat 43°51'33", long 110°35'23", in SE¼ SW¼ sec.18, T.45 N., R.114 W., Teton County, Grand Teton National Park, Hydrologic Unit 17040101, at Jackson Lake Dam on Snake River, 4.3 mi west of Moran, and at mile 988.9.

DRAINAGE AREA.--807 mi^2.

PERIOD OF RECORD.--July 1908 to September 1979, (1908-10 fragmentary), October 1984 to current year. Prior to October 1968, published as "at Moran".

REVISED RECORDS.--WDR Idaho 1974: Drainage area.

GAGE.--Shaft encoder connected to a stilling well float. Datum of gage is 6,700.00 ft, U.S. Bureau of Reclamation datum, sea level is 2.08 ft lower. July 1908 to June 1, 1941, nonrecording gage at site 300 ft upstream at same datum. June 1, 1941 to Feb. 17, 1978, nonrecording gage at same site and datum.

REMARKS.--Station equipment includes satellite telemetry. Reservoir was formed by log crib dam built in the outlet of the natural lake in 1906. Usable capacity was 300,000 acre-ft. This dam washed out in July 1910 and was replaced by an earth dam, forming a reservoir with a usable capacity of 380,000 acre-ft. The earth dam was raised in 1916, increasing the usable capacity to 790,000 acre-ft. In 1917, by dredging the outlet, the usable capacity was further increased to 847,000 acre-ft between elevations 6,730 ft (top of baffles to sluices) and 6,769 ft (top of spillway gates). The dam was rebuilt during 1987-89, with the usable capacity remaining the same. Reservoir is used to store water for irrigation in Snake River valley, Idaho. Figures given herein represent usable contents.

COOPERATION.--Reservoir elevations and capacity table provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 874,100 acre-ft June 11, 1997, elevation, 6,770.06 ft; no usable contents for several days during period August to October 1919.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 842,100 acre-ft July 20, elevation, 6,768.81 ft; minimum, 520,300 acre-ft May 19, elevation, 6,755.59 ft.

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

6,750	392,900
6,760	624,400
6,770	872,600

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	581000	571800	581300	590500	606900	624100	594500	534700	652500	798000	830900	749300
2	579400	571800	581700	590700	e607600	624100	591900	537300	660300	802600	828900	747300
3	578400	571800	582000	590700	608400	624400	588600	538700	670200	807400	827100	745300
4	577000	571800	582700	591200	608400	624400	586500	539400	676500	812700	825300	742600
5	575600	571800	e582200	591700	608400	624400	583600	539600	681200	817200	823800	739600
6	574600	e572100	582700	592400	609100	624400	581500	539200	686300	820500	821500	736400
7	573700	e572400	e583000	592600	610700	624400	578900	537500	692600	824800	819500	732400
8	572700	572700	583200	593100	611900	624400	576500	537000	698000	828100	817200	729200
9	572300	e573000	583200	593800	612900	624100	573400	535900	699700	830700	815000	726000
10	571800	573000	583400	594300	613100	624100	570900	535400	700400	832700	812200	722800
11	571600	573000	583600	594500	613100	624100	568000	533800	701400	834500	810200	718900
12	571300	573000	583600	595200	613600	623600	565400	531700	703400	836500	808100	715400
13	570900	573000	583900	595200	613800	623200	562400	530300	707100	838300	805400	711700
14	570900	573200	583900	595200	614600	622700	559800	528400	712000	839300	802800	708300
15	570900	573000	583900	596200	614800	622000	557000	527500	e719300	840600	799300	705100
16	570900	573000	584100	597200	615300	620800	554400	525600	e726600	840900	796500	701400
17	570400	573200	584300	597600	617000	620300	551600	523300	e734000	841600	793800	697700
18	570400	573700	584300	599300	617900	619300	548700	521400	741300	841600	791000	694600
19	570200	573700	e584300	600200	618600	618100	547100	520300	748300	841900	787700	691400
20	569900	e574500	584300	601200	618600	617000	546600	520700	755200	842100	784700	687700
21	569900	575300	584600	601400	620100	615500	544800	524000	761700	841400	781700	684600
22	569900	576300	584600	602100	620300	613800	542700	529300	768000	841400	779200	680900
23	570600	576800	584800	604300	621000	611900	540100	537800	771700	840900	775700	677200
24	570900	577500	584800	604500	621000	610000	538200	548300	774700	840100	772700	673400
25	571100	577700	585000	604800	621000	608100	536300	561200	778500	839100	769400	669500
26	571100	577900	585800	605700	622700	606200	534000	573900	781500	838100	766400	665600
27	571100	578200	587200	606000	622900	605000	533800	589100	782200	836800	763500	662200
28	571300	579100	589100	606200	623400	602600	533100	603600	783700	835500	760700	658300
29	571600	580100	589800	606200	---	601200	532600	619300	787700	835300	757700	654500
30	571800	580800	589800	606400	---	599500	533100	634000	793000	833700	754200	651000
31	571800	---	590000	606900	---	596900	---	646000	---	832500	752500	---
MAX	581000	580800	590000	606900	623400	624400	594500	646000	793000	842100	830900	749300
MIN	569900	571800	581300	590500	606900	596900	532600	520300	652500	798000	752500	651000
†	6757.79	6758.17	6758.56	6759.27	6759.96	6758.84	6756.14	6760.90	6766.87	6768.43	6765.25	6761.11
‡	-11100	9000	9200	16900	16500	-26500	-63800	112900	147000	39500	-80000	-101500

CAL YR 1998 MAX 850300 MIN 569900 ‡ -54600
WTR YR 1999 MAX 842100 MIN 520300 ‡ 68100

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.
e Estimated

SNAKE RIVER MAIN STEM

13011000 SNAKE RIVER NEAR MORAN, WY

LOCATION.--Lat 43°51'31", long 110°35'09", in SW¼SE¼ sec.18, T.45 N., R.114 W., Teton County, Grand Teton National Park, Hydrologic Unit 17040101, on left bank 1,000 ft downstream from Jackson Lake Dam, 4.1 mi west of Moran, and at mile 988.7.

DRAINAGE AREA.--807 mi^2. Mean elevation, 8,040 ft.

PERIOD OF RECORD.--September 1903 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "South Fork Snake River at Moran" prior to October 1910 and as "Snake River at Moran" October 1910 to September 1968.

REVISED RECORDS.--WSP 1217: 1944(m). WSP 1347: 1906-10. WDR Idaho 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,727.84 ft above sea level (levels by U.S. Bureau of Reclamation). Prior to June 13, 1917, nonrecording gage, and June 14, 1917 to May 20, 1940, water-stage recorder, at site 1.5 mi downstream at different datums.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry.

COOPERATION.--Water District 1.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft^3/s June 12, 1918, gage height, 10.41 ft, site and datum then in use; maximum gage height, 10.96 ft, June 11, 1997; minimum daily, 0.30 ft^3/s Oct. 28, 1969.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood during early June 1894 was considerably higher than that of June 12, 1918.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,610 ft^3/s June 18, gage height, 8.24 ft; minimum, 284 ft^3/s Nov. 22, gage height, 2.37 ft.

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	1600	429	396	414	401	476	1920	2070	4890	2300	2300	2440
2	1500	430	396	414	401	536	2020	2060	5240	2310	2300	2450
3	1410	430	396	414	400	556	2060	2050	5650	2310	2310	2450
4	1320	431	396	414	400	557	2060	2050	5660	2310	2300	2450
5	1150	433	396	414	400	558	2060	2040	5970	2310	2300	2450
6	1020	433	396	414	400	560	2060	2310	6000	2310	2290	2450
7	948	433	397	414	400	560	2060	2800	6220	2300	2300	2460
8	882	433	400	414	399	560	2060	3010	6520	2300	2310	2460
9	724	433	400	414	400	560	2060	3000	6520	2310	2310	2460
10	598	433	400	414	400	582	2060	2990	6520	2310	2320	2450
11	563	433	402	414	401	632	2060	2990	6520	2300	2320	2450
12	549	433	405	414	401	648	2060	3000	6530	2300	2360	2460
13	512	433	405	414	402	649	2070	3010	6510	2300	2400	2460
14	478	433	405	414	401	647	2070	3000	6510	2310	2410	2450
15	464	433	405	414	400	706	2070	2990	6530	2300	2410	2450
16	467	431	405	418	401	792	2080	3010	6550	2310	2410	2450
17	466	432	404	419	402	910	2080	3010	6560	2310	2410	2450
18	465	433	404	419	404	1010	2080	3010	6560	2300	2410	2450
19	467	433	405	419	403	1110	2080	3000	6520	2310	2410	2460
20	467	433	405	419	401	1200	2090	3000	6510	2310	2400	2450
21	447	421	405	419	400	1300	2100	3000	6510	2300	2410	2450
22	433	414	405	415	400	1410	2090	3010	6540	2300	2410	2450
23	433	426	405	400	400	1510	2100	3020	6550	2300	2410	2450
24	433	435	405	400	400	1550	2100	3020	6490	2300	2410	2450
25	433	433	406	402	400	1550	2100	3300	6250	2300	2400	2450
26	432	435	407	404	417	1550	2100	3520	5790	2300	2400	2450
27	428	436	414	403	447	1550	2100	3630	5210	2300	2420	2460
28	428	438	414	404	447	1550	2110	4030	4320	2290	2440	2450
29	428	438	414	404	---	1610	2110	4070	3120	2290	2450	2450
30	429	414	414	404	---	1710	2090	4120	2390	2290	2450	2450
31	429	---	414	403	---	1810	---	4420	---	2290	2450	---
TOTAL	20803	12935	12521	12762	11328	30909	62160	93540	177660	71380	73630	73560
MEAN	671	431	404	412	405	997	2072	3017	5922	2303	2375	2452
MAX	1600	438	414	419	447	1810	2110	4420	6560	2310	2450	2460
MIN	428	414	396	400	399	476	1920	2040	2390	2290	2290	2440
AC-FT	41260	25660	24840	25310	22470	61310	123300	185500	352400	141600	146000	145900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1999, BY WATER YEAR (WY)

MEAN	352	293	332	309	373	480	758	1483	3510	3965	3509	1983
MAX	1605	3009	4280	1362	2489	3053	3828	5658	8594	8182	7370	5265
(WY)	1913	1957	1957	1912	1961	1951	1974	1971	1918	1921	1918	1984
MIN	5.06	3.00	2.00	2.00	2.00	2.00	2.53	6.48	51.7	983	987	146
(WY)	1948	1949	1945	1945	1945	1945	1945	1945	1932	1989	1919	1910

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1904 - 1999	
ANNUAL TOTAL	642939		653188			
ANNUAL MEAN	1761		1790		1452	
HIGHEST ANNUAL MEAN					2548	1997
LOWEST ANNUAL MEAN					687	1989
HIGHEST DAILY MEAN	6120	Jun 7	6560	Jun 17	14700	Jun 13 1918
LOWEST DAILY MEAN	396	Dec 1	396	Dec 1	.30	Oct 28 1969
ANNUAL SEVEN-DAY MINIMUM	396	Dec 1	396	Dec 1	1.4	Oct 24 1969
ANNUAL RUNOFF (AC-FT)	1275000		1296000		1052000	
10 PERCENT EXCEEDS	4300		3060		4310	
50 PERCENT EXCEEDS	676		1920		497	
90 PERCENT EXCEEDS	428		402		17	

PACIFIC CREEK BASIN

13011500 PACIFIC CREEK AT MORAN, WY

LOCATION.--Lat 43°51'04", long 110°30'59", in SW¼NW¼ sec.23, T.45 N., R.114 W., Teton County, Grand Teton National Park, Hydrologic Unit 17040101, on left bank 40 ft upstream from bridge on U.S. Highway 287, at Moran, and at mile 0.5.

DRAINAGE AREA.--169 mi^2. Mean elevation, 8,160 ft.

PERIOD OF RECORD.--July to November 1906 (gage heights only), July 1917 to September 1918 (no winter records), September 1944 to September 1975, July 1978 to current year. Published as "near Moran" prior to October 1968.

GAGE.--Water-stage recorder. Elevation of gage is 6,720 ft above sea level, from topographic map. July 31 to Nov. 11, 1906, nonrecording gage at site 0.4 mi downstream at different datum. July 20, 1917 to Sept.30, 1918, nonrecording gage at site 0.1 mi downstream at different datum. Sept. 23, 1944 to Nov. 13, 1959, at site 100 ft upstream at same datum. Nov. 14, 1959 to Sept. 24, 1975, at site 35 ft downstream at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. No diversion or regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,350 ft^3/s May 29, 1983, gage height, 6.33 ft; maximum gage height, 7.20 ft, June 12, 1996, extrapolated from gage height record; minimum daily, 19 ft^3/s Dec. 31, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 28	0130	*4,740	*7.36	June 7	0030	3,170	7.01
June 3	0500	3,070	6.98	June 15	0200	4,040	7.14

Minimum daily, 34 ft^3/s Dec. 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	66	58	59	e55	e50	e55	72	611	1770	1230	130	105
2	67	59	59	e50	e48	e55	e70	792	1940	1110	123	124
3	73	59	59	e46	e50	e55	e70	757	2520	1090	118	138
4	74	58	59	e50	e55	e55	69	635	2070	1140	117	129
5	70	59	e55	e55	e50	e50	70	532	2080	1050	118	110
6	68	58	e46	e55	e48	e46	69	464	2080	884	139	97
7	68	58	e50	e55	e60	e50	69	541	2360	847	122	89
8	66	59	e48	e55	e55	e55	71	754	2400	784	116	86
9	65	e55	e46	e55	e60	e60	72	682	1920	684	109	83
10	65	e55	e42	e60	e50	e55	70	587	1710	617	104	81
11	64	e55	e50	e65	e46	e50	e70	521	1710	567	104	78
12	64	e55	e55	e60	e48	e55	70	480	1850	513	114	77
13	62	e55	e55	e55	e48	e55	72	482	1920	470	113	75
14	61	58	e50	e50	e50	e60	74	499	2320	434	102	74
15	61	58	e48	e60	e55	e65	e75	566	3300	412	96	72
16	63	58	e55	e55	e55	e70	e75	508	3310	363	93	71
17	63	58	e55	e55	e55	e65	76	459	3280	367	92	69
18	61	58	e50	e55	e55	e65	83	499	3160	342	90	69
19	60	57	e44	e60	e55	e65	98	657	3040	302	87	70
20	59	e55	e38	e55	e50	e70	120	1010	2970	277	87	68
21	58	58	e34	e55	e55	e70	140	1580	3030	255	89	66
22	59	57	e38	e60	e60	e70	113	2180	2780	229	101	65
23	60	56	e36	e60	e65	e70	99	2590	2410	211	96	64
24	62	59	e38	e50	e65	70	97	2800	2240	192	90	63
25	62	58	e46	e38	e70	71	108	3230	2180	177	89	63
26	60	e55	e55	e46	e65	72	134	3430	1950	164	87	62
27	59	e55	e55	e42	e55	e70	204	3730	1560	155	86	61
28	60	58	e60	e40	e50	e70	296	3420	1350	147	87	59
29	61	59	e65	e38	---	71	358	3160	1240	145	98	58
30	61	59	e60	e36	---	71	460	2560	1160	158	94	57
31	60	---	e55	e44	---	71	---	2700	---	141	124	---
TOTAL	1962	1719	1565	1615	1528	1932	3524	43416	67610	15457	3215	2383
MEAN	63.3	57.3	50.5	52.1	54.6	62.3	117	1401	2254	499	104	79.4
MAX	74	59	65	65	70	72	460	3730	3310	1230	139	138
MIN	58	55	34	36	46	46	69	459	1160	141	86	57
AC-FT	3890	3410	3100	3200	3030	3830	6990	86120	134100	30660	6380	4730
CFSM	.37	.34	.30	.31	.32	.37	.70	8.29	13.3	2.95	.61	.47
IN.	.43	.38	.34	.36	.34	.43	.78	9.56	14.88	3.40	.71	.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1999, BY WATER YEAR (WY)

MEAN	65.7	55.1	49.0	44.7	46.1	52.7	152	974	1299	355	99.6	72.0
MAX	142	105	93.5	70.7	72.2	94.5	418	2314	2884	1527	191	127
(WY)	1973	1973	1984	1951	1995	1972	1946	1997	1997	1982	1982	1972
MIN	34.6	32.6	29.7	25.3	26.6	34.6	53.3	345	238	70.0	43.0	37.2
(WY)	1988	1953	1955	1979	1955	1963	1970	1975	1994	1994	1988	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1917 - 1999	
ANNUAL TOTAL	123473		145926			
ANNUAL MEAN	338		400		272	
HIGHEST ANNUAL MEAN					560	1997
LOWEST ANNUAL MEAN					132	1994
HIGHEST DAILY MEAN	2540	May 30	3730	May 27	4170	Jun 1 1997
LOWEST DAILY MEAN	34	Dec 21	34	Dec 21	19	Dec 31 1978
ANNUAL SEVEN-DAY MINIMUM	39	Dec 19	39	Dec 19	23	Jan 6 1993
ANNUAL RUNOFF (AC-FT)	244900		289400		197200	
ANNUAL RUNOFF (CFSM)	2.00		2.37		1.61	
ANNUAL RUNOFF (INCHES)	27.18		32.12		21.88	
10 PERCENT EXCEEDS	1200		1630		940	
50 PERCENT EXCEEDS	73		70		66	
90 PERCENT EXCEEDS	55		50		39	

e Estimated

BUFFALO FORK BASIN

13011900 BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WY

LOCATION.--Lat 43°50'14", long 110°26'21", in SE¼NE¼ sec.29, T.45 N., R.113 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on right bank below bridge on U.S. Highway 26/287, about 2 mi upstream from Lava Creek, 3.5 mi east of Moran, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--323 mi^2.

PERIOD OF RECORD.--September 1965 to current year. July to November 1906, July 1917 to September 1918, and September 1944 to September 1960 at sites about 3 mi downstream.

REVISED RECORDS.--WDR Idaho 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,772.78 ft above sea level (Federal Highway Administration bench mark).

REMARKS.--Records good except for estimated daily discharges November to April, which are poor. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,540 ft^3/s June 9, 1981, gage height, 8.61 ft; minimum daily, 73 ft^3/s Jan. 25, 1989.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 29	0415	3,180	5.51	June 22	0630	*5,200	*7.25
				July 5	0515	4,150	6.40

Minimum daily, 95 ft^3/s Dec. 21, 23.

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	209	172	162	e120	e120	e120	146	520	2080	2570	931	390
2	216	179	158	e110	e110	e110	e130	614	2080	2640	868	426
3	236	182	156	e110	e120	e120	e140	584	2440	2930	828	524
4	239	175	157	e120	e130	e110	e140	520	2280	3480	803	492
5	223	176	e130	e140	e120	e110	141	457	2170	3570	777	453
6	221	171	e110	e140	e120	e100	142	401	2060	2840	754	400
7	220	171	e140	e130	e150	e130	140	433	2430	2810	711	373
8	216	177	e170	e130	e130	e120	144	529	2700	2830	676	360
9	208	164	e140	e140	e140	e130	147	520	2250	2550	649	351
10	203	e150	e110	e150	e120	e130	139	454	2040	2410	619	343
11	200	e160	e140	e140	e100	e120	133	429	2090	2320	603	337
12	195	e150	e170	e130	e110	e130	144	397	2260	2150	636	325
13	196	e160	e160	e120	e110	e120	155	390	2320	2330	605	318
14	192	178	e150	e120	e120	e130	161	374	2600	2350	566	313
15	191	174	e160	e160	e130	e140	151	382	3220	2330	535	308
16	203	168	e170	e140	e120	e160	150	375	3620	2000	508	303
17	196	165	e150	e130	e130	e140	168	349	4170	1820	489	297
18	193	e160	e130	e140	e120	e150	188	362	4520	1770	475	294
19	184	e150	e120	e150	e140	e180	227	403	4450	1700	456	328
20	182	e140	e100	e140	e110	e180	265	493	4490	1610	449	313
21	181	e160	e95	e140	e120	e170	278	622	4770	1590	442	296
22	184	e150	e100	e150	e130	e170	247	865	4870	1560	455	288
23	188	152	e95	e150	e140	e170	226	1150	4350	1450	431	283
24	201	e150	e110	e120	e160	e170	217	1520	4090	1380	416	281
25	197	e140	e120	e100	e130	e180	233	1890	3930	1360	409	286
26	191	e140	e140	e130	e130	186	243	2310	3790	1190	394	274
27	185	e150	e130	e120	e110	178	296	2450	2960	1130	384	271
28	196	e150	e150	e110	e140	e160	353	2690	2440	1080	387	268
29	196	e160	e160	e110	---	165	420	2870	2410	1030	392	267
30	185	160	e140	e100	---	161	484	2720	2440	1270	374	271
31	182	---	e120	e110	---	155	---	2700	---	1040	451	---
TOTAL	6209	4834	4243	4000	3510	4495	6148	30773	92320	63090	17473	10033
MEAN	200	161	137	129	125	145	205	993	3077	2035	564	334
MAX	239	182	170	160	160	186	484	2870	4870	3570	931	524
MIN	181	140	95	100	100	100	130	349	2040	1030	374	267
AC-FT	12320	9590	8420	7930	6960	8920	12190	61040	183100	125100	34660	19900
CFSM	.62	.50	.42	.40	.39	.45	.63	3.07	9.53	6.30	1.75	1.04
IN.	.72	.56	.49	.46	.40	.52	.71	3.54	10.63	7.27	2.01	1.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1999, BY WATER YEAR (WY)

MEAN	216	172	140	122	118	127	217	1014	2350	1408	433	265
MAX	304	229	180	145	191	175	367	1768	4533	3056	946	428
(WY)	1973	1984	1985	1994	1984	1984	1987	1969	1997	1975	1982	1982
MIN	128	122	99.5	87.3	93.1	98.5	124	397	1049	230	163	135
(WY)	1988	1988	1980	1989	1969	1995	1967	1975	1992	1977	1977	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1966 - 1999	
ANNUAL TOTAL	201442		247128			
ANNUAL MEAN	552		677		550	
HIGHEST ANNUAL MEAN					890	1997
LOWEST ANNUAL MEAN					286	1977
HIGHEST DAILY MEAN	3910	Jul 4	4870	Jun 22	5880	Jun 9 1981
LOWEST DAILY MEAN	95	Dec 21	95	Dec 21	73	Jan 25 1989
ANNUAL SEVEN-DAY MINIMUM	106	Dec 19	106	Dec 19	81	Jan 23 1989
ANNUAL RUNOFF (AC-FT)	399600		490200		398200	
ANNUAL RUNOFF (CFSM)	1.71		2.10		1.70	
ANNUAL RUNOFF (INCHES)	23.20		28.46		23.12	
10 PERCENT EXCEEDS	1710		2340		1680	
50 PERCENT EXCEEDS	193		196		195	
90 PERCENT EXCEEDS	130		120		112	

e Estimated

SNAKE RIVER MAIN STEM

13013650 SNAKE RIVER AT MOOSE, WY

LOCATION.--Lat 43°39'14", long 110°42'52", in NW¼NW¼NE¼ sec.36, T.43 N., R.116 W., Teton County, Wyoming, Hydrologic Unit 17040101, Grand Teton National Park, on right bank at downstream side of bridge on Teton Park Road, 0.2 miles east of Grand Teton National Park Headquarters Visitor Center at Moose, and 0.3 miles west of U.S. Highway 191.

DRAINAGE AREA.--1,677 mi2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,431.12 ft above sea level, by survey.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,300 ft³/s June 11, 1997, gage height, 15.25 ft; minimum daily, 963 ft³/s Apr. 13, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,900 ft³/s June 18, gage height, 13.79 ft; minimum daily, 822 ft³/s Jan. 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	3350	e1270	1050	e910	1040	e1050	2630	3820	11300	7700	4360	3620
2	3230	e1250	1040	e910	966	1050	2690	4040	11800	7570	4260	3700
3	3100	e1230	1040	e910	974	1100	2790	3970	13900	7710	4200	3890
4	3100	1210	1040	e914	1050	1080	2780	3760	13200	8140	4180	3890
5	2780	1210	976	855	1050	1050	2740	3640	13100	8430	4130	3770
6	2510	1210	885	873	1090	1020	2870	3620	13000	7640	4150	3660
7	2310	1180	891	886	1100	1010	2850	4180	13800	7430	4060	3600
8	2200	1180	916	878	1090	1000	2840	4980	14600	7450	4020	3600
9	1990	1150	920	898	1100	1050	2830	5040	13900	7110	3970	3570
10	1760	1130	893	922	1090	1070	2710	4770	13300	6820	3900	3600
11	1650	1080	882	953	1000	1130	2670	4640	12800	6640	3880	3560
12	1600	1100	896	916	931	1160	2770	4620	13300	6400	3990	3560
13	1550	1070	931	911	907	1140	2840	4570	13700	6460	4010	3560
14	1500	1120	916	920	935	1140	2820	4470	14300	6420	3920	3570
15	1460	1090	911	996	1020	1150	2790	4420	14300	6480	3860	3560
16	1490	1080	942	1020	1010	1240	2770	4440	14600	6080	3800	3560
17	1460	1070	961	977	1040	1310	2790	4470	15400	5880	3750	3550
18	1430	1090	964	997	e1040	1410	2860	4410	15700	5760	3710	3550
19	1410	1070	937	1050	e1040	1470	2960	4440	15600	5580	3680	3670
20	1400	1010	994	963	e1040	1600	3080	4960	15400	5420	3670	3720
21	1390	1090	e950	958	e1040	1750	3090	5590	15700	5370	3650	3650
22	1360	1090	e900	956	e1040	1860	3040	6480	15800	5290	3670	3650
23	1360	1060	e870	960	e1040	1960	2900	7430	15200	5110	3640	3640
24	1380	1110	e900	961	e1040	2070	2840	8340	14600	4970	3600	3640
25	1360	1070	e900	845	e1050	2110	2930	9090	14300	4920	3560	3660
26	1340	1050	e900	941	e1050	2290	2970	10400	13600	4710	3530	e3600
27	1320	1040	e900	960	e1050	2240	3050	12000	11900	4580	3530	e3400
28	1310	1110	e910	886	e1050	2100	3270	12800	10400	4490	3560	e3200
29	e1330	1110	e910	865	---	2120	3440	13000	8810	4440	3610	e3000
30	e1310	1090	e910	822	---	2310	3630	12100	7750	4750	3580	e2800
31	e1290	---	e910	869	---	2520	---	12500	---	4510	3720	---
TOTAL	56030	33620	28945	28682	28873	46560	87240	196990	405060	190260	119150	107000
MEAN	1807	1121	934	925	1031	1502	2908	6355	13500	6137	3844	3567
MAX	3350	1270	1050	1050	1100	2520	3630	13000	15800	8430	4360	3890
MIN	1290	1010	870	822	907	1000	2630	3620	7750	4440	3530	2800
AC-FT	111100	66690	57410	56890	57270	92350	173000	390700	803400	377400	236300	212200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1999, BY WATER YEAR (WY)

MEAN	1658	1192	1118	1221	1392	1923	3190	6390	13200	7091	4280	3868
MAX	2124	1382	1315	1615	2083	3205	4600	8620	18150	7574	4859	5089
(WY)	1998	1998	1998	1997	1997	1997	1997	1997	1997	1997	1997	1998
MIN	1342	1067	934	925	1031	1224	1522	2531	9074	6137	3844	3142
(WY)	1996	1996	1999	1999	1999	1998	1998	1995	1998	1999	1999	1995

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1995 - 1999	
ANNUAL TOTAL	1290355		1328410			
ANNUAL MEAN	3535		3639		4060	
HIGHEST ANNUAL MEAN					4874	1997
LOWEST ANNUAL MEAN					3616	1998
HIGHEST DAILY MEAN	11700	Jun 4	15800	Jun 22	24500	Jun 11 1997
LOWEST DAILY MEAN	870	Dec 23	822	Jan 30	822	Jan 30 1999
ANNUAL SEVEN-DAY MINIMUM	897	Dec 22	884	Jan 25	884	Jan 25 1999
ANNUAL RUNOFF (AC-FT)	2559000	2635000	2941000			
10 PERCENT EXCEEDS	8260	8580	9350			
50 PERCENT EXCEEDS	1390	2770	3050			
90 PERCENT EXCEEDS	1070	920	1050			

e Estimated

SNAKE RIVER MAIN STEM

13013650 SNAKE RIVER AT MOOSE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1995 to current year.

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 WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	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)
NOV												
17...	1000	1080	194	8.3	4.0	1.0	598	10.6	103	83	24	5.4
JAN												
21...	1300	978	203	7.9	1.0	1.0	595	11.6	105	83	24	5.4
MAR												
30...	0930	2280	172	7.9	2.0	-2.0	595	10.6	98	68	20	4.3
MAY												
25...	1230	9160	143	8.1	8.0	16.5	610	9.5	100	61	18	3.7
JUL												
21...	1200	5610	127	8.1	15.0	22.0	610	8.4	105	51	15	3.2
SEP												
02...	0845	3720	147	8.1	14.0	10.0	605	8.0	98	57	17	3.6

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
NOV											
17...	7.6	.4	1.9	89	10	3.4	.4	15	122	.18	376
JAN											
21...	8.0	.4	1.8	89	9.9	4.1	.6	16	124	.17	333
MAR											
30...	9.6	.5	2.0	72	10	5.2	.7	16	112	.15	689
MAY											
25...	5.2	.3	1.3	72	5.7	2.7	.3	11	92	.15	2720
JUL											
21...	5.1	.3	1.4	56	5.6	.8	.3	14	79	.10	1170
SEP											
02...	6.8	.4	1.4	60	6.9	3.8	.5	13	89	.13	944

DATE	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 TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV											
17...	.06	<.02	<.1	.02	.02	E9	E2	1.1	--	8	23
JAN											
21...	.10	<.02	E.07	<.05	.02	<10	3	1.0	.2	3	7.9
MAR											
30...	.05	<.02	E.06	<.05	<.01	E9	4	1.6	.2	8	49
MAY											
25...	<.05	.03	.6	.52	.02	14	7	3.0	3.8	648	16000
JUL											
21...	<.05	<.02	.4	.05	.01	E6	<3	1.5	.2	26	386
SEP											
02...	<.05	<.02	.2	<.05	<.01	E6	<3	1.5	.5	9	90

E Positive detection, but below stated detection limits.

13013650 SNAKE RIVER AT MOOSE, WY--Continued

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)
NOV											
17...	1000	1080	4.0	1.0	<.002	<.002	<.001	<.002	<.001	<.002	<.002
MAY											
25...	1230	9160	8.0	16.5	<.002	<.002	<.001	<.002	<.001	<.002	<.002

DATE	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	P,P' DDE DISSOLV (UG/L) (34653)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
NOV										
17...	<.003	<.003	<.004	<.004	<.002	<.006	<.002	<.001	<.003	<.017
MAY										
25...	<.003	<.003	<.004	<.004	<.002	<.006	<.002	<.001	<.003	<.017

DATE	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)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	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)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)
NOV										
17...	<.002	<.004	<.003	<.003	<.002	<.004	<.002	<.005	<.002	<.006
MAY										
25...	<.002	<.004	<.003	<.003	<.002	<.004	<.002	<.005	<.002	<.006

DATE	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
NOV										
17...	<.004	<.004	<.003	<.004	<.004	<.004	<.005	<.002	<.018	<.003
MAY										
25...	<.004	<.004	<.003	<.004	<.004	<.004	<.005	<.002	<.018	<.003

DATE	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)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
NOV										
17...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
MAY										
25...	<.007	<.004	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002

GROS VENTRE RIVER BASIN

13015000 GROS VENTRE RIVER AT ZENITH, WY

LOCATION.--Lat 43°33'00", long 110°47'00", in SW¼NW¼SW¼ sec.34., T.42 N., R.116 W., Teton County, Wyoming, Hydrologic Unit 17040102, on left bank, 20 ft upstream from county road bridge, 0.5 mi southwest of Jackson Hole Country Club, and 5.5 mi north of Jackson, Wyoming.

DRAINAGE AREA.--683 mi^2.

PERIOD OF RECORD.--July to September 1917, July to September 1918 (monthly discharge only, published in WSP 1317), October 1987 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 6,260 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes satellite telemetry. Diversions of about 300 ft^3/s for irrigation above station. No regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 6,170 ft^3/s June 6, 1997; maximum gage height, 22.77 ft, June 10, 1996; no flow on many days.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 18, 1927, when landslide about 12 mi upstream washed out, released about 60,000 acre-ft of impounded water (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,070 ft^3/s June 18; minimum daily, 63 ft^3/s Apr. 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	---	---	---	---	---	---	88	547	2290	1730	316	119
2	---	---	---	---	---	---	74	666	1560	1830	294	124
3	---	---	---	---	---	---	65	652	1670	2040	277	145
4	---	---	---	---	---	---	63	465	1720	2200	267	182
5	---	---	---	---	---	---	65	342	1390	2370	252	185
6	---	---	---	---	---	---	67	254	1250	2290	228	167
7	---	---	---	---	---	---	74	204	1860	1930	232	145
8	---	---	---	---	---	---	79	281	2360	1830	218	127
9	---	---	---	---	---	---	92	363	2160	1710	202	116
10	---	---	---	---	---	---	92	309	1740	1470	188	107
11	---	---	---	---	---	---	82	254	1570	1280	178	102
12	---	---	---	---	---	---	77	214	1620	1030	176	97
13	---	---	---	---	---	---	87	207	1710	978	175	93
14	---	---	---	---	---	---	104	213	1800	963	170	90
15	---	---	---	---	---	---	114	215	2150	993	161	86
16	---	---	---	---	---	---	109	227	2490	978	148	84
17	---	---	---	---	---	---	108	190	2860	915	134	82
18	---	---	---	---	---	---	131	167	3070	792	124	80
19	---	---	---	---	---	---	165	203	2930	778	120	83
20	---	---	---	---	---	---	214	320	2710	778	130	88
21	---	---	---	---	---	---	247	526	2900	694	127	88
22	---	---	---	---	---	---	231	886	2930	666	127	85
23	---	---	---	---	---	---	191	1260	2860	609	127	82
24	---	---	---	---	---	---	159	1760	2600	556	120	81
25	---	---	---	---	---	---	149	2100	2500	520	114	80
26	---	---	---	---	---	---	156	2350	2630	486	111	79
27	---	---	---	---	---	---	184	2620	2490	417	107	78
28	---	---	---	---	---	---	236	2910	2060	389	101	77
29	---	---	---	---	---	---	333	2880	1810	360	103	77
30	---	---	---	---	---	---	461	2830	1780	355	99	77
31	---	---	---	---	---	---	---	2770	---	331	108	---
TOTAL	---	---	---	---	---	---	4297	29185	65470	34268	5234	3106
MEAN	---	---	---	---	---	---	143	941	2182	1105	169	104
MAX	---	---	---	---	---	---	461	2910	3070	2370	316	185
MIN	---	---	---	---	---	---	63	167	1250	331	99	77
AC-FT	---	---	---	---	---	---	8520	57890	129900	67970	10380	6160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1999, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	141	902	1372	595	178	80.6
MAX	---	---	---	---	---	---	219	2954	3189	1410	406	215
(WY)	---	---	---	---	---	---	1990	1997	1997	1995	1917	1997
MIN	---	---	---	---	---	---	41.1	293	88.3	10.5	.86	.000
(WY)	---	---	---	---	---	---	1993	1995	1992	1994	1994	1994

FISH CREEK BASIN

13016240 LAKE CREEK BELOW GRANITE CREEK SUPPLEMENTAL, NEAR MOOSE, WY

LOCATION.--Lat 43°36'49", long 110°46'44", in NE¼SW¼SW¼ sec.9, T.42 N., R.116 W., Teton County, Wyoming, Hydrologic Unit 17040103, Grand Teton National Park, on left bank 60 ft downstream from Granite Creek Supplemental, and 4.3 mi southwest of Moose.

DRAINAGE AREA.--22.2 mi^2.

PERIOD OF RECORD.--June 1995 to September 1999 (no winter records) (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 6,350 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversion 60 ft upstream, into and out of Lake Creek through Granite Creek Supplemental, which diverts water from Snake River main stem for irrigation in Fish Creek Basin. See stations 13016305, 13016310, 13016315 and 13016450.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 499 ft^3/s June 19, 1997, gage height, 3.64 ft; minimum daily, 4.8 ft^3/s Apr. 14, 1997.

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	---	---	---	---	---	---	e6.3	27	145	195	76	39
2	---	---	---	---	---	---	e6.3	32	131	214	72	40
3	---	---	---	---	---	---	e6.3	34	138	230	70	40
4	---	---	---	---	---	---	e6.3	33	130	244	69	41
5	---	---	---	---	---	---	e6.3	43	121	249	69	40
6	---	---	---	---	---	---	e6.2	50	120	210	66	37
7	---	---	---	---	---	---	e6.2	39	134	204	62	36
8	---	---	---	---	---	---	e6.2	33	131	214	60	35
9	---	---	---	---	---	---	e6.2	28	117	170	59	35
10	---	---	---	---	---	---	e6.2	26	106	150	56	34
11	---	---	---	---	---	---	e6.2	24	96	143	53	33
12	---	---	---	---	---	---	e6.2	23	96	134	51	33
13	---	---	---	---	---	---	6.2	22	107	128	50	32
14	---	---	---	---	---	---	5.6	21	136	121	48	32
15	---	---	---	---	---	---	5.3	20	189	105	47	31
16	---	---	---	---	---	---	5.3	19	225	106	46	31
17	---	---	---	---	---	---	5.5	17	234	103	45	31
18	---	---	---	---	---	---	5.7	54	253	96	44	30
19	---	---	---	---	---	---	6.0	79	261	88	43	29
20	---	---	---	---	---	---	6.7	82	267	81	42	29
21	---	---	---	---	---	---	8.1	85	277	78	42	28
22	---	---	---	---	---	---	8.5	105	280	74	41	27
23	---	---	---	---	---	---	8.5	121	250	61	41	26
24	---	---	---	---	---	---	8.6	157	230	53	41	25
25	---	---	---	---	---	---	9.5	186	227	48	40	23
26	---	---	---	---	---	---	10	198	236	50	40	22
27	---	---	---	---	---	---	11	206	184	53	39	22
28	---	---	---	---	---	---	14	196	145	59	38	21
29	---	---	---	---	---	---	19	180	116	76	38	20
30	---	---	---	---	---	---	22	181	155	84	38	20
31	---	---	---	---	---	---	---	171	---	79	39	---
TOTAL	---	---	---	---	---	---	240.4	2492	5237	3900	1565	922
MEAN	---	---	---	---	---	---	8.01	80.4	175	126	50.5	30.7
MAX	---	---	---	---	---	---	22	206	280	249	76	41
MIN	---	---	---	---	---	---	5.3	17	96	48	38	20
AC-FT	---	---	---	---	---	---	477	4940	10390	7740	3100	1830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1999, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	12.4	90.1	209	121	49.5	41.3
MAX	---	---	---	---	---	---	22.2	127	326	172	98.5	88.6
(WY)	---	---	---	---	---	---	1997	1997	1997	1998	1998	1998
MIN	---	---	---	---	---	---	6.90	59.8	141	64.0	20.9	23.0
(WY)	---	---	---	---	---	---	1998	1996	1998	1997	1997	1997

e Estimated

FISH CREEK BASIN

13016305 GRANITE CREEK ABOVE GRANITE CREEK SUPPLEMENTAL, NEAR MOOSE, WY

LOCATION.--Lat 43°36'14", long 110°48'17", in SW¼SE¼NE¼ sec.18, T.42 N., R.116 W., Teton County, Wyoming, Hydrologic Unit 17040103, Grand Teton National Park, on right bank 0.7 mi upstream from Granite Creek Supplemental, and 5.7 mi southwest of Moose.

DRAINAGE AREA.--14.9 mi^2.

PERIOD OF RECORD.--June 1995 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. No diversions upstream from station. See stations 13016240, 13016310, 13016315 and 13016450.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 518 ft^3/s June 9, 1997, gage height, 6.58 ft; minimum daily, 1.2 ft^3/s Jan. 9, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 255 ft^3/s June 21, gage height, 5.66 ft; minimum daily, 5.2 ft^3/s Apr. 12.

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	8.1	e7.4	7.0	e6.1	6.4	6.4	25	67	181	51	e20
2	12	8.2	e7.4	6.9	6.1	6.4	6.2	28	63	190	48	e21
3	11	8.0	e7.4	7.0	5.6	6.2	5.9	26	74	191	46	e22
4	11	7.7	e7.4	7.0	6.5	6.1	5.9	23	71	200	45	e23
5	11	7.9	e7.4	7.2	6.5	6.1	5.6	21	67	192	42	e23
6	10	7.9	e9.2	7.1	6.4	5.8	5.6	20	74	179	40	e22
7	10	8.0	e9.1	7.0	6.5	6.2	5.6	20	76	185	39	e21
8	10	e8.0	e9.0	7.0	6.3	5.9	5.6	22	69	182	37	e20
9	9.7	e8.0	e9.8	7.0	6.7	5.9	5.6	21	61	169	35	e20
10	9.7	e7.8	e9.4	7.0	6.5	5.7	5.3	21	53	167	33	e20
11	9.7	e7.6	e10	7.0	6.5	5.6	e5.3	20	53	166	33	e19
12	9.6	e7.4	e10	6.7	5.8	5.6	5.2	19	62	166	32	e19
13	9.3	e7.3	e10	6.7	e5.8	5.6	5.5	20	76	164	30	e19
14	9.3	7.3	10	6.6	e6.0	5.4	5.9	20	95	163	29	e18
15	9.3	7.2	10	6.7	e6.2	5.5	e5.9	19	116	e151	27	e18
16	9.3	7.0	10	6.3	6.3	5.6	e6.2	19	132	e144	26	e18
17	9.2	7.1	10	6.4	6.3	5.5	6.3	18	153	e136	25	e18
18	9.1	7.0	10	6.5	6.3	5.4	7.4	19	162	e130	25	e18
19	8.8	7.0	e9.6	6.3	6.5	5.7	9.8	20	170	e125	25	e18
20	8.7	7.0	e7.9	6.2	6.3	5.9	12	25	156	121	24	e18
21	8.6	7.4	e6.4	6.2	6.1	6.4	12	36	194	117	24	e17
22	8.6	7.5	e6.4	6.1	5.7	6.4	11	58	196	109	23	e16
23	8.7	7.6	e6.2	6.3	6.8	6.4	11	83	165	102	23	e15
24	8.7	7.7	e6.6	6.2	6.9	6.4	10	109	154	98	22	e15
25	8.5	7.5	e7.0	5.7	6.7	6.7	11	138	191	88	21	e15
26	8.4	e7.5	e7.4	6.5	6.6	7.3	11	163	184	77	20	e14
27	8.3	e7.4	e7.6	6.2	6.5	7.1	11	178	148	71	20	e14
28	8.7	7.4	e7.8	6.0	6.4	6.9	14	130	144	67	20	e14
29	8.5	e7.4	7.8	e6.0	---	6.7	17	107	160	69	20	e14
30	8.4	e7.4	7.1	e6.0	---	6.6	21	102	181	64	19	e13
31	8.2	---	6.7	e6.1	---	6.4	---	87	---	57	20	---
TOTAL	290.3	226.3	258.0	202.9	176.9	189.8	256.2	1617	3567	4221	924	542
MEAN	9.36	7.54	8.32	6.55	6.32	6.12	8.54	52.2	119	136	29.8	18.1
MAX	12	8.2	10	7.2	6.9	7.3	21	178	196	200	51	23
MIN	8.2	7.0	6.2	5.7	5.6	5.4	5.2	18	53	57	19	13
AC-FT	576	449	512	402	351	376	508	3210	7080	8370	1830	1080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1999, BY WATER YEAR (WY)

MEAN	11.0	9.64	7.26	6.13	5.24	5.27	9.47	84.9	226	156	36.3	16.0
MAX	16.0	14.5	8.73	8.10	6.32	6.12	10.4	149	349	184	48.7	22.5
(WY)	1998	1998	1998	1998	1999	1999	1996	1997	1997	1998	1997	1997
MIN	8.54	7.54	4.97	2.34	3.44	3.46	8.54	52.2	119	136	28.9	11.9
(WY)	1997	1999	1996	1996	1996	1996	1999	1999	1999	1997	1998	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1995 - 1999	
ANNUAL TOTAL	15948.7		12471.4			
ANNUAL MEAN	43.7		34.2		47.3	
HIGHEST ANNUAL MEAN					63.2	1997
LOWEST ANNUAL MEAN					34.2	1999
HIGHEST DAILY MEAN	315	Jul 3	200	Jul 4	490	Jun 9 1997
LOWEST DAILY MEAN	5.2	Feb 28	5.2	Apr 12	1.2	Jan 9 1996
ANNUAL SEVEN-DAY MINIMUM	5.5	Feb 25	5.4	Apr 7	1.3	Jan 5 1996
ANNUAL RUNOFF (AC-FT)	31630		24740		34300	
10 PERCENT EXCEEDS	151		130		176	
50 PERCENT EXCEEDS	9.6		9.7		12	
90 PERCENT EXCEEDS	5.7		6.1		5.4	

e Estimated

FISH CREEK BASIN

13016310 GRANITE CREEK SUPPLEMENTAL ABOVE LAKE CREEK, NEAR MOOSE, WY

LOCATION.--Lat 43°37'09", long 110°46'27", in SE¼ SE¼NW¼ sec.9, T.42 N., R.116 W., Teton County, Wyoming, Hydrologic Unit 17040103, Grand Teton National Park, on left bank 0.3 mi downstream from headgate, 0.4 mi upstream from Lake Creek, and 4.0 mi southwest of Moose.

PERIOD OF RECORD.--June 1995 to September 1999 (no winter records) (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 6,370 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. This is a transbasin diversion from Snake River for irrigation in Fish Creek Basin. Diversion point is 0.3 mi northeast of this site, at the right bank of Snake River in SW¼ NE¼ sec.9, T.42 N., R.116 W. See stations 13016240, 13016305, 13016315 and 13016450.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 278 ft³/s Sept. 13, 1998, gage height, 4.40 ft; no flow for 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	---	---	---	---	---	---	3.5	2.9	37	133	188	158
2	---	---	---	---	---	---	3.5	2.8	37	136	184	160
3	---	---	---	---	---	---	3.5	2.4	35	138	183	165
4	---	---	---	---	---	---	3.5	2.3	30	136	182	165
5	---	---	---	---	---	---	3.5	2.2	28	125	181	161
6	---	---	---	---	---	---	3.5	2.1	28	122	181	156
7	---	---	---	---	---	---	3.7	2.0	28	125	179	154
8	---	---	---	---	---	---	3.8	.99	28	124	175	153
9	---	---	---	---	---	---	3.8	.87	26	116	173	151
10	---	---	---	---	---	---	3.8	.77	24	108	172	149
11	---	---	---	---	---	---	3.8	.77	23	102	172	147
12	---	---	---	---	---	---	3.8	.74	22	96	174	146
13	---	---	---	---	---	---	3.8	.72	22	95	174	146
14	---	---	---	---	---	---	3.8	.70	32	95	170	144
15	---	---	---	---	---	---	3.8	.70	52	93	168	144
16	---	---	---	---	---	---	3.8	.70	53	118	166	143
17	---	---	---	---	---	---	3.8	.70	55	129	164	143
18	---	---	---	---	---	---	3.8	42	57	125	165	141
19	---	---	---	---	---	---	3.8	64	55	120	164	140
20	---	---	---	---	---	---	3.8	66	51	117	163	139
21	---	---	---	---	---	---	3.8	66	46	114	163	135
22	---	---	---	---	---	---	3.8	86	42	113	164	132
23	---	---	---	---	---	---	3.7	85	37	109	164	128
24	---	---	---	---	---	---	3.7	112	30	105	162	126
25	---	---	---	---	---	---	3.7	115	23	104	159	123
26	---	---	---	---	---	---	3.6	97	19	112	158	117
27	---	---	---	---	---	---	3.1	82	15	120	157	116
28	---	---	---	---	---	---	3.0	63	10	128	158	114
29	---	---	---	---	---	---	3.1	50	8.4	166	159	113
30	---	---	---	---	---	---	3.1	42	77	203	156	111
31	---	---	---	---	---	---	---	38	---	193	160	---
TOTAL	---	---	---	---	---	---	108.7	1032.36	1030.4	3820	5238	4220
MEAN	---	---	---	---	---	---	3.62	33.3	34.3	123	169	141
MAX	---	---	---	---	---	---	3.8	115	77	203	188	165
MIN	---	---	---	---	---	---	3.0	.70	8.4	93	156	111
AC-FT	---	---	---	---	---	---	216	2050	2040	7580	10390	8370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1999, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	6.10	33.2	13.2	77.4	162	142
MAX	---	---	---	---	---	---	18.6	62.2	34.3	123	244	231
(WY)	---	---	---	---	---	---	1997	1996	1999	1999	1998	1998
MIN	---	---	---	---	---	---	.60	11.9	4.01	41.6	71.9	93.5
(WY)	---	---	---	---	---	---	1998	1997	1998	1995	1997	1995

FISH CREEK BASIN

13016315 GRANITE CREEK SUPPLEMENTAL BELOW LAKE CREEK, NEAR MOOSE, WY

LOCATION.--Lat 43°36'22", long 110°47'24", in NW¼ SW¼ NE¼ sec.17, T.42 N., R.116 W., Teton County, Wyoming, Hydrologic Unit 17040103, Grand Teton National Park, on left bank 800 ft upstream from bridge on Moose-Wilson road, 0.9 mi upstream from mouth, and 5.4 mi southwest of Moose.

PERIOD OF RECORD.--June 1995 to September 1999 (no winter records) (discontinued) .

GAGE.--Water-stage recorder. Elevation of gage is 6,350 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Canal diverts water from Snake River for irrigation in Fish Creek Basin. Figures given herein represent water diverted from main stem of Snake River, less that which may divert into Lake Creek, 0.8 mi upstream. See stations 13016240, 13016305, 13016310 and 13016450.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 266 ft³/s July 29, 1998, gage height, 3.82 ft; no flow for 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	---	---	---	---	---	---	.00	.00	66	170	198	130
2	---	---	---	---	---	---	.00	.00	60	177	190	134
3	---	---	---	---	---	---	.00	.00	64	180	186	135
4	---	---	---	---	---	---	.00	.00	58	187	187	137
5	---	---	---	---	---	---	.00	.00	55	186	184	133
6	---	---	---	---	---	---	.00	.00	55	171	182	129
7	---	---	---	---	---	---	.00	.00	60	173	178	125
8	---	---	---	---	---	---	.00	.00	58	183	174	123
9	---	---	---	---	---	---	.00	.00	50	184	170	121
10	---	---	---	---	---	---	.00	.00	44	173	166	119
11	---	---	---	---	---	---	.00	.00	41	166	166	117
12	---	---	---	---	---	---	.00	.00	43	166	168	116
13	---	---	---	---	---	---	.00	.00	52	175	165	115
14	---	---	---	---	---	---	.00	.00	73	182	161	113
15	---	---	---	---	---	---	.00	.00	101	196	157	112
16	---	---	---	---	---	---	.00	.00	112	195	152	111
17	---	---	---	---	---	---	.00	.00	120	195	148	110
18	---	---	---	---	---	---	.00	.00	129	184	145	109
19	---	---	---	---	---	---	.00	.00	131	176	143	107
20	---	---	---	---	---	---	.00	.00	133	177	142	107
21	---	---	---	---	---	---	.00	.75	136	182	140	105
22	---	---	---	---	---	---	.00	21	135	180	139	101
23	---	---	---	---	---	---	.00	37	121	175	138	98
24	---	---	---	---	---	---	.00	69	115	167	135	97
25	---	---	---	---	---	---	.00	96	120	158	133	95
26	---	---	---	---	---	---	.00	104	117	161	131	91
27	---	---	---	---	---	---	.00	106	95	165	130	90
28	---	---	---	---	---	---	.00	98	76	164	129	89
29	---	---	---	---	---	---	.00	93	97	184	131	88
30	---	---	---	---	---	---	.00	91	146	218	128	85
31	---	---	---	---	---	---	---	82	---	208	131	---
TOTAL	---	---	---	---	---	---	0.00	797.75	2663	5558	4827	3342
MEAN	---	---	---	---	---	---	.000	25.7	88.8	179	156	111
MAX	---	---	---	---	---	---	.00	106	146	218	198	137
MIN	---	---	---	---	---	---	.00	.00	41	158	128	85
AC-FT	---	---	---	---	---	---	.00	1580	5280	11020	9570	6630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1999, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	.000	37.1	79.1	151	158	109
MAX	---	---	---	---	---	---	.000	77.5	123	179	197	166
(WY)	---	---	---	---	---	---	1997	1996	1996	1999	1998	1998
MIN	---	---	---	---	---	---	.000	10.5	27.8	128	116	55.5
(WY)	---	---	---	---	---	---	1997	1998	1998	1995	1997	1995

FISH CREEK BASIN

13016450 FISH CREEK AT WILSON, WY

LOCATION.--Lat 43°30'03", long 110°52'15", in NW¼NW¼SE¼ sec.22, T.41 N., R.117 W., Teton County, Wyoming, Hydrologic Unit 17040103, on left bank 20 ft downstream from bridge on Fish Creek Road (County Road 3) in Wilson.

DRAINAGE AREA.--71.1 mi^2.

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,150 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversion from Snake River through Granite Creek Supplemental for irrigation in Fish Creek Basin and by additional diversions upstream from station within Fish Creek basin. See stations 13016240, 13016305, 13016310 and 13016315.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,430 ft^3/s June 8, 1997, gage height, 5.41 ft; minimum daily, 33 ft^3/s Jan. 5, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,020 ft^3/s June 22, gage height, 4.48 ft; minimum daily, 33 ft^3/s Jan. 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	229	62	49	35	47	37	41	98	567	710	366	193
2	204	60	49	35	46	45	41	102	515	751	359	230
3	190	60	47	35	44	43	42	104	569	785	347	246
4	179	60	44	35	43	42	42	100	523	815	348	248
5	167	60	43	33	40	40	42	93	490	844	342	247
6	158	58	43	34	36	39	42	98	474	805	337	234
7	146	55	43	34	38	39	44	96	532	786	331	225
8	137	55	43	34	45	38	48	91	564	790	317	218
9	130	55	43	34	45	38	52	91	500	736	304	208
10	122	55	43	35	45	38	53	88	441	687	298	199
11	115	55	41	36	42	38	53	85	402	643	292	193
12	110	54	41	36	41	37	53	85	392	610	288	191
13	104	53	41	36	37	36	58	85	412	576	282	189
14	98	49	40	37	39	36	65	84	464	573	273	185
15	94	49	39	38	44	39	65	84	539	556	262	182
16	92	51	39	39	43	44	65	82	609	542	253	176
17	88	51	39	39	41	40	69	80	720	566	245	174
18	86	51	39	41	36	37	78	81	810	544	239	174
19	83	51	37	48	36	36	85	92	861	498	232	180
20	81	49	e37	47	35	36	93	101	904	467	233	175
21	78	46	e37	44	36	37	93	118	952	439	233	166
22	77	47	e37	41	38	43	90	128	1000	425	227	159
23	73	48	e37	43	36	45	83	160	961	402	211	148
24	69	48	e37	42	36	43	82	207	904	375	204	144
25	65	46	e37	48	36	40	83	268	890	353	210	143
26	66	45	37	47	35	41	83	323	906	338	209	137
27	68	45	36	45	35	42	83	371	828	325	205	133
28	67	44	36	45	35	42	84	421	688	321	196	134
29	64	45	36	44	---	47	94	464	583	330	192	133
30	64	48	36	39	---	48	99	512	596	370	192	133
31	62	---	36	42	---	47	---	602	---	373	195	---
TOTAL	3366	1555	1242	1221	1110	1253	2005	5394	19596	17335	8222	5497
MEAN	109	51.8	40.1	39.4	39.6	40.4	66.8	174	653	559	265	183
MAX	229	62	49	48	47	48	99	602	1000	844	366	248
MIN	62	44	36	33	35	36	41	80	392	321	192	133
AC-FT	6680	3080	2460	2420	2200	2490	3980	10700	38870	34380	16310	10900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1999, BY WATER YEAR (WY)

MEAN	91.0	55.4	47.3	44.4	41.7	46.3	79.4	229	601	466	259	186
MAX	109	59.8	57.3	57.3	45.0	51.1	102	377	962	559	329	288
(WY)	1999	1996	1996	1997	1997	1997	1997	1997	1997	1999	1998	1998
MIN	69.7	48.3	40.1	38.8	38.2	40.4	66.8	139	351	280	224	137
(WY)	1995	1995	1999	1995	1998	1999	1999	1995	1994	1994	1996	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1994 - 1999	
ANNUAL TOTAL	63924		67796			
ANNUAL MEAN	175		186		187	
HIGHEST ANNUAL MEAN					222	1997
LOWEST ANNUAL MEAN					161	1995
HIGHEST DAILY MEAN	665	Jul 5	1000	Jun 22	1350	Jun 9,10 1997
LOWEST DAILY MEAN	34	Mar 13	33	Jan 5	33	Jan 5 1999
ANNUAL SEVEN-DAY MINIMUM	36	Mar 11	34	Jan 3	34	Jan 3 1999
ANNUAL RUNOFF (AC-FT)	126800		134500		135600	
10 PERCENT EXCEEDS	404		543		474	
50 PERCENT EXCEEDS	75		81		87	
90 PERCENT EXCEEDS	38		37		41	

e Estimated

FLAT CREEK BASIN

13018300 CACHE CREEK NEAR JACKSON, WY
(Hydrologic benchmark station)

LOCATION.--Lat 43°27'08", long 110°42'12", in SW¼SW¼SE¼ sec.1, T.40 N., R.116 W., Teton County, Wyoming, Hydrologic Unit 17040103, Teton National Forest, on right bank 0.7 mi upstream from Salt Lick Draw, 2.4 mi southeast of Jackson, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--10.6 mi^2.

PERIOD OF RECORD.--June 1962 to current year.

REVISED RECORDS.--WDR WY-76-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,750 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft^3/s June 24, 1971, gage height, 3.90 ft; maximum gage height, 4.30 ft, June 10, 1996; minimum daily, 1.1 ft^3/s Dec. 23, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 52 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 16	2330	*91	*3.54

No other peak greater than base discharge.

Minimum daily, 4.8 ft^3/s Mar. 17-19.

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	7.9	5.2	6.1	e6.6	e5.6	5.1	5.6	17	54	45	16	12
2	7.9	5.2	6.1	e6.2	e5.4	5.2	5.6	18	52	43	15	12
3	7.9	5.2	6.1	e5.8	5.4	5.2	5.9	17	65	42	14	12
4	7.9	5.0	6.0	e6.0	5.4	5.2	6.1	15	61	41	14	13
5	7.6	5.0	6.1	e6.0	5.4	5.3	5.6	13	57	40	14	12
6	7.4	5.0	e6.1	e6.0	5.4	e5.3	5.6	13	57	39	14	12
7	7.3	5.0	e6.1	e5.8	5.3	e5.4	5.6	14	65	38	15	11
8	7.3	5.1	e6.1	e5.8	5.2	5.4	5.6	15	75	36	15	11
9	7.2	5.2	e6.1	e5.8	5.2	5.4	5.5	15	67	35	14	11
10	7.1	5.8	e6.4	e5.8	5.2	5.4	5.4	14	61	34	14	11
11	6.8	6.1	e6.7	e5.8	5.2	5.3	7.0	12	59	32	14	11
12	6.7	6.1	e7.0	e5.6	5.2	5.1	5.6	12	61	31	14	11
13	6.6	6.1	7.4	e5.4	5.2	5.0	5.5	12	64	31	14	11
14	6.4	6.2	7.3	e5.4	e5.3	5.0	5.7	12	69	30	14	11
15	6.3	6.3	7.1	e5.6	5.5	5.0	6.1	11	78	29	14	10
16	6.3	6.3	7.2	e5.7	5.4	5.0	6.6	11	85	26	14	10
17	6.3	6.3	7.3	e5.7	5.4	4.8	6.5	11	89	26	13	10
18	6.3	6.3	7.3	e5.7	5.4	4.8	7.4	11	85	24	13	10
19	6.1	6.3	7.3	e5.7	5.4	4.8	8.4	12	85	20	13	10
20	6.1	6.1	7.3	e5.7	5.4	4.9	9.0	15	83	19	13	10
21	5.7	6.1	7.3	5.6	5.4	5.0	9.1	19	79	19	13	10
22	5.6	6.3	7.3	5.6	5.4	5.0	8.6	23	75	19	13	9.8
23	5.6	6.3	7.3	5.6	5.4	5.0	8.3	27	69	18	13	9.8
24	5.6	6.3	7.3	5.6	5.3	5.1	8.3	33	64	18	12	9.8
25	5.6	6.1	e7.2	5.8	5.2	5.4	8.6	39	62	18	12	9.8
26	5.6	5.9	e7.2	6.1	5.1	5.8	8.8	43	60	17	12	9.8
27	5.4	5.8	e7.2	5.8	5.2	5.8	9.2	47	56	17	11	9.8
28	5.4	5.9	e7.2	5.9	5.1	6.1	12	54	52	17	11	9.6
29	5.3	6.1	e7.2	e5.8	---	5.6	15	59	49	16	11	9.5
30	5.2	6.1	e7.2	e5.6	---	5.6	17	63	47	16	12	9.5
31	5.2	---	e7.0	e5.6	---	5.6	---	64	---	16	12	---
TOTAL	199.6	174.7	212.5	179.1	149.0	162.6	229.2	741	1985	852	413	318.4
MEAN	6.44	5.82	6.85	5.78	5.32	5.25	7.64	23.9	66.2	27.5	13.3	10.6
MAX	7.9	6.3	7.4	6.6	5.6	6.1	17	64	89	45	16	13
MIN	5.2	5.0	6.0	5.4	5.1	4.8	5.4	11	47	16	11	9.5
AC-FT	396	347	421	355	296	323	455	1470	3940	1690	819	632

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1999, BY WATER YEAR (WY)

MEAN	6.84	5.72	4.99	4.34	4.02	4.06	6.52	26.2	51.0	24.9	12.4	8.50
MAX	9.43	7.57	6.85	5.91	6.09	7.25	14.2	52.1	103	42.0	18.5	12.3
(WY)	1972	1997	1999	1981	1984	1984	1987	1997	1971	1965	1971	1971
MIN	3.83	3.14	1.53	2.42	2.06	2.23	3.21	5.86	10.6	6.51	4.19	3.83
(WY)	1993	1978	1991	1978	1992	1991	1991	1977	1992	1977	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1962 - 1999	
ANNUAL TOTAL	5799.9		5616.1			
ANNUAL MEAN	15.9		15.4		13.3	
HIGHEST ANNUAL MEAN					20.5	1997
LOWEST ANNUAL MEAN					5.64	1992
HIGHEST DAILY MEAN	66	Jun 4	89	Jun 17	161	Jun 24 1971
LOWEST DAILY MEAN	4.3	Mar 17	4.8	Mar 17	1.1	Dec 23 1990
ANNUAL SEVEN-DAY MINIMUM	4.5	Mar 14	4.9	Mar 14	1.3	Dec 20 1990
ANNUAL RUNOFF (AC-FT)	11500		11140		9640	
10 PERCENT EXCEEDS	48		44		34	
50 PERCENT EXCEEDS	7.2		7.3		6.6	
90 PERCENT EXCEEDS	5.0		5.2		3.6	

e Estimated

SNAKE RIVER MAIN STEM

13018750 SNAKE RIVER BELOW FLAT CREEK, NEAR JACKSON, WY

LOCATION.--Lat 43°22'20", long 110°44'17", in NE¼SE¼ sec.3, T.39 N., R.116 W., Teton County, Wyoming, Hydrologic Unit 17040103, on left bank 20 ft upstream from county road bridge, about 1 mi downstream from Flat Creek, 4.8 mi upstream from Hoback River, 7.0 mi south of Jackson, and at mile 938.9.

DRAINAGE AREA.--2,627 mi^2.

PERIOD OF RECORD.--November 1975 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,950 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 30,200 ft^3/s June 11, 1997; minimum daily, 690 ft^3/s Jan. 19, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,700 ft^3/s June 18, gage height, 9.16 ft; minimum daily, 1,100 ft^3/s Jan. 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	3740	1830	1810	1530	e1300	1570	3050	5260	14700	9460	4930	3810
2	3400	1820	1770	e1500	e1400	1620	3080	5540	14300	9340	4800	3960
3	3260	1820	1750	e1500	e1500	1630	3190	5600	15700	9500	4710	4190
4	3230	1820	1740	e1500	1500	1620	3210	5240	15800	9900	4670	4340
5	3050	1800	1700	e1500	1500	1640	3200	4850	15200	10400	4620	4200
6	2870	1820	e1600	1540	1490	1600	3260	4560	15000	9900	4600	4020
7	2720	1800	e1500	1540	1550	1620	3290	4960	15900	9290	4540	3870
8	2610	1830	1480	1520	1520	1620	3360	5730	17300	9210	4460	3810
9	2500	1800	1490	1540	1550	1650	3450	6000	16700	8890	4350	3760
10	2330	e1800	1510	1540	e1500	1630	3360	5790	15400	8400	4280	3730
11	2200	1750	1510	1530	e1300	1640	3300	5610	14900	8090	4250	3690
12	2150	1750	1500	1530	e1400	1680	3310	5490	15000	7760	4320	3670
13	2120	1740	1540	1520	e1500	1680	3420	5490	15300	e7600	4350	3650
14	2060	1760	1540	1480	e1500	1670	3530	5460	15700	e7700	4250	3630
15	2010	1800	1520	1530	1520	1700	3500	5500	17100	7730	4150	3610
16	2030	1790	1530	1540	1490	1800	3450	5540	18000	7470	4060	3590
17	2020	1780	1550	1520	1530	1890	3490	5420	19000	7190	3980	3590
18	2000	1790	1550	1540	1490	1980	3640	5360	20000	6970	3920	3590
19	1990	1770	e1500	1530	1500	2070	3820	5500	19900	6720	3890	3660
20	1940	1730	e1400	1560	1480	2230	4030	5890	19300	6520	3910	3660
21	1920	1750	e1300	1550	e1500	2370	4080	6560	19200	6360	3880	3610
22	1900	1880	e1400	1530	e1500	2540	3970	7490	19300	6200	3870	3570
23	1900	1820	e1400	1570	1500	2640	3790	8640	18800	6010	3850	3540
24	1910	1800	e1400	1510	1500	2750	3690	9820	17700	5780	3750	3530
25	1900	1800	e1500	e1400	1490	2820	3750	11100	17000	5660	3700	3510
26	1880	1750	e1500	e1500	1500	2910	3790	12700	16500	5490	3650	3520
27	1860	1720	e1500	e1400	1490	2930	3910	13400	14900	5270	3640	3520
28	1850	1770	1610	e1300	1520	2810	4260	14500	12800	5150	3660	3540
29	1860	1900	1600	e1200	---	2770	4740	15400	10900	5060	3680	3540
30	1890	1870	1570	e1100	---	2890	5090	15300	9780	5220	3690	3550
31	1860	---	1530	e1200	---	2990	---	15800	---	5110	3800	---
TOTAL	70960	53860	47800	45750	41520	64960	109010	239500	487080	229350	128210	111460
MEAN	2289	1795	1542	1476	1483	2095	3634	7726	16240	7398	4136	3715
MAX	3740	1900	1810	1570	1550	2990	5090	15800	20000	10400	4930	4340
MIN	1850	1720	1300	1100	1300	1570	3050	4560	9780	5060	3640	3510
AC-FT	140700	106800	94810	90750	82350	128800	216200	475000	966100	454900	254300	221100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1999, BY WATER YEAR (WY)

MEAN	1874	1568	1412	1332	1366	1644	2749	6905	11580	7002	4370	3476
MAX	3093	2747	1998	2345	2491	3686	5435	12060	22180	14090	7253	6464
(WY)	1983	1984	1984	1997	1997	1997	1985	1997	1997	1982	1976	1984
MIN	977	967	846	879	825	910	1292	2570	5356	3245	2305	1801
(WY)	1989	1988	1988	1988	1989	1977	1977	1977	1994	1988	1981	1979

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1976 - 1999	
ANNUAL TOTAL	1670940		1629460			
ANNUAL MEAN	4578		4464		3741	
HIGHEST ANNUAL MEAN					6110	1997
LOWEST ANNUAL MEAN					2469	1977
HIGHEST DAILY MEAN	15200	Jul 4	20000	Jun 18	30200	Jun 11 1997
LOWEST DAILY MEAN	1300	Dec 21	1100	Jan 30	690	Jan 19 1988
ANNUAL SEVEN-DAY MINIMUM	1410	Dec 19	1270	Jan 27	785	Feb 4 1989
ANNUAL RUNOFF (AC-FT)	3314000		3232000		2710000	
10 PERCENT EXCEEDS	11600		10600		8910	
50 PERCENT EXCEEDS	2150		3210		2120	
90 PERCENT EXCEEDS	1680		1500		1140	

e Estimated

SNAKE RIVER MAIN STEM

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°11'47", long 110°53'18", Lincoln County, Wyoming, Hydrologic Unit 17040103, on right bank 0.3 mi downstream from Wolf Creek, 6.4 mi upstream from Greys River, 7.4 mi east of Alpine, 16.1 mi upstream from Palisades Dam, and at mile 917.5.

DRAINAGE AREA.--3,465 mi^2.

PERIOD OF RECORD.--March 1937 to March 1939 (published as "above Greys River, near Alpine"), July 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,683.90 ft above sea level, unadjusted. Mar. 16, 1937 to Mar. 31, 1939 at site 6.0 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,600 ft^3/s June 11, 1997, gage height, 14.04 ft; minimum, 740 ft^3/s Nov. 16, 1955, gage height, 2.19 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 23,400 ft^3/s June 18; minimum daily, 1,300 ft^3/s Jan. 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	4140	2220	2190	e1700	e1500	1800	3160	7860	18000	12300	6380	4780
2	3760	2210	2150	e1600	e1600	1810	3170	8420	17100	12400	6200	4890
3	3700	2210	2120	e1600	e1700	1810	3260	7940	19700	12700	6070	5220
4	3640	2190	2110	e1600	e1600	1800	3280	7090	19400	13200	6030	5400
5	3500	2180	2030	e1700	e1600	1830	3290	6380	18500	13700	5960	5230
6	3290	2190	1810	1780	1690	1760	3330	5850	18400	12900	5920	5020
7	3130	2170	e1700	1740	1770	1820	3380	6410	19400	12100	5850	4830
8	3020	2200	e1700	1720	1740	1800	3470	7580	20600	12100	5770	4750
9	2910	2160	e1600	1720	1760	1860	3630	7770	20000	11500	5600	4680
10	2740	2100	e1600	1730	e1700	1830	3510	7210	18500	10900	5500	4630
11	2600	2100	e1700	1720	e1500	1820	3440	6790	17800	10500	5440	4570
12	2530	2070	e1700	1710	e1600	1870	3460	6600	18000	10100	5520	4530
13	2490	2080	e1800	1700	e1600	1850	3630	6860	18400	9940	5560	4490
14	2450	2100	1830	1620	e1700	1860	3800	6850	18800	10000	5420	4460
15	2410	2160	1800	1730	e1700	1900	3790	6880	20300	10100	5290	4440
16	2430	2160	1800	1720	1710	2000	3760	6780	21400	9660	5160	4410
17	2420	2150	1820	1690	1750	2070	3820	6580	22500	9180	5050	4400
18	2370	2170	1860	1710	1700	2170	4100	6660	23400	9090	4960	4390
19	2370	2130	e1700	1690	1730	2270	4480	7160	22900	8700	4910	4500
20	2340	2080	e1600	1730	1680	2430	4880	7810	22800	8420	4900	4550
21	2310	2090	e1500	1720	1670	2570	4960	8780	23200	8250	4880	4440
22	2290	2290	e1600	1690	1710	2700	4760	10100	23200	8110	4860	4390
23	2290	2210	e1600	1750	1720	2800	4480	11600	22500	7850	4800	4350
24	2310	2180	e1600	1680	1720	2890	4400	13200	21300	7550	4670	4320
25	2290	2170	e1700	e1500	1720	2980	4480	15000	20700	7430	4620	4300
26	2260	2080	e1700	e1600	1720	3080	4600	16800	20200	7180	4570	4290
27	2240	2040	e1700	e1600	1660	3110	5030	17400	18500	6880	4540	4300
28	2240	2100	e1800	e1500	1740	2990	5740	18200	16100	6720	4560	4310
29	2240	2320	e1800	e1400	---	2930	6790	19000	14200	6600	4580	4300
30	2280	2260	e1800	e1300	---	3020	7700	19100	12900	6770	4610	4310
31	2270	---	e1700	e1400	---	3100	---	19500	---	6660	4780	---
TOTAL	83260	64770	55120	51050	46990	70530	125580	310160	588700	299490	162960	137480
MEAN	2686	2159	1778	1647	1678	2275	4186	10010	19620	9661	5257	4583
MAX	4140	2320	2190	1780	1770	3110	7700	19500	23400	13700	6380	5400
MIN	2240	2040	1500	1300	1500	1760	3160	5850	12900	6600	4540	4290
AC-FT	165100	128500	109300	101300	93200	139900	249100	615200	1168000	594000	323200	272700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1999, BY WATER YEAR (WY)

MEAN	2191	1864	1701	1522	1612	1860	3400	8994	13730	8712	5403	4078
MAX	3605	4244	5795	2694	3381	4116	6820	15890	28180	15790	7541	7595
(WY)	1983	1957	1957	1997	1961	1997	1985	1997	1997	1982	1956	1984
MIN	1325	1225	1101	1069	1071	1099	1506	2995	6257	3802	2494	2241
(WY)	1978	1978	1988	1964	1938	1955	1955	1977	1994	1988	1981	1977

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1937 - 1999	
ANNUAL TOTAL	1943690		1996090			
ANNUAL MEAN	5325		5469		4616	
HIGHEST ANNUAL MEAN					7525	1997
LOWEST ANNUAL MEAN					2726	1977
HIGHEST DAILY MEAN	17000	Jul 4	23400	Jun 18	38100	Jun 11 1997
LOWEST DAILY MEAN	1500	Dec 21	1300	Jan 30	900	Dec 31 1978
ANNUAL SEVEN-DAY MINIMUM	1610	Dec 19	1470	Jan 25	957	Jan 9 1964
ANNUAL RUNOFF (AC-FT)	3855000		3959000		3344000	
10 PERCENT EXCEEDS	13200		13900		10900	
50 PERCENT EXCEEDS	2780		3330		2470	
90 PERCENT EXCEEDS	1900		1700		1320	

e Estimated

GREYS RIVER BASIN

13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°08'35", long 110°58'34", in SW¼SE¼ sec.34, T.37 N., R.118 W. (unsurveyed), Lincoln County, Wyoming, Hydrologic Unit 17040103, on right bank at Bridge Campground, 3.6 mi southeast of Alpine, 3.0 mi upstream from maximum flowline of Palisades Reservoir.

DRAINAGE AREA.--448 mi^2. Mean elevation, 8,080 ft.

PERIOD OF RECORD.--July to September 1917, June to September 1918, March 1937 to March 1939, October 1953 to current year. Published as "Greys River near Alpine, Idaho", 1917-1918, and as "Greys River near Alpine, Wyo.", 1937-39.

GAGE.--Water-stage recorder. Elevation of gage is 5,729 ft above sea level, from topographic map. July 6 to Sept. 30, 1917, and June 4 to Sept. 30, 1918, nonrecording gage, and Mar. 17, 1937 to Mar. 31, 1939, water-stage recorder, at site 1.8 mi downstream, and Oct. 1953 to Sept. 22, 1965, water-stage recorder at site 1 mi downstream at different datums.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Less than 500 acres irrigated by diversions from Greys River and tributaries above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,230 ft^3/s June 19, 1971, gage height, 6.33 ft; maximum gage height observed, 19.1 ft, former site and datum about Dec. 18, 1965, backwater from ice; minimum, 84 ft^3/s Feb. 17, 1986, result of current meter measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 1	2330	2,350	4.01	May 31	---	[a] 3,500	---

(a) Daily mean discharge

Minimum daily, 130 ft^3/s Dec. 23.

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	413	345	331	e200	e170	e200	345	2010	e3200	e1800	840	580
2	429	343	328	e180	e160	e220	330	1950	e2900	e1800	821	572
3	445	338	332	e170	e170	e200	313	1730	e3000	e1900	793	589
4	440	329	333	e180	e180	e200	303	1440	e2700	e1700	782	635
5	424	328	299	e190	e190	e200	307	1230	e2600	e1900	780	578
6	411	331	250	e200	e180	e190	305	1130	e2800	e1700	772	544
7	405	320	e210	e190	e190	e190	298	1240	e3000	e1600	752	526
8	400	334	e190	e190	e180	e200	321	1410	e3400	e1500	731	518
9	394	e325	e180	e190	e170	e220	357	1340	e3100	e1600	710	512
10	392	e315	e170	e200	e170	e220	341	1180	e2800	e1500	687	505
11	387	309	e180	e200	e160	e190	324	1070	e2600	e1400	700	501
12	383	306	e190	e190	e150	e190	364	1030	e2400	e1300	715	494
13	376	306	e210	e190	e160	e180	454	1160	e2300	e1300	679	489
14	368	329	e200	e180	e160	e190	527	1110	e2300	e1200	662	484
15	373	325	e200	e190	e170	e200	538	1080	e2400	e1300	643	479
16	386	320	e220	e200	e170	e220	529	991	e2600	e1500	633	474
17	377	320	e240	e200	e180	e240	583	943	e2700	e1300	622	469
18	366	335	e210	e210	e180	270	750	1030	e2800	e1200	608	466
19	360	321	e180	e210	e190	289	906	1290	e2600	e1100	600	489
20	356	303	e160	e190	e190	320	1060	1550	e2500	e1100	598	508
21	352	327	e140	e180	e170	361	1050	e1700	e2600	e1050	602	473
22	355	360	e150	e180	e180	344	919	e1900	e2700	e1050	598	462
23	366	336	e130	e190	e180	331	817	e2100	e2800	e1000	582	457
24	377	341	e140	e170	e190	353	830	e2300	e2700	985	575	457
25	359	316	e160	e150	e200	408	901	e2500	e2500	992	571	452
26	352	299	e180	e170	e190	472	920	e2800	e2400	951	560	443
27	347	308	e160	e170	e180	438	992	e2900	e2300	922	562	450
28	355	340	e180	e160	e190	386	1190	e3000	e2100	906	586	443
29	360	356	e200	e160	---	358	1600	e2800	e2000	896	558	437
30	360	344	e220	e150	---	372	2000	e3000	e1900	899	568	435
31	355	---	e200	e160	---	349	---	e3500	---	868	658	---
TOTAL	11823	9809	6473	5690	4950	8501	20474	54414	78700	40219	20548	14921
MEAN	381	327	209	184	177	274	682	1755	2623	1297	663	497
MAX	445	360	333	210	200	472	2000	3500	3400	1900	840	635
MIN	347	299	130	150	150	180	298	943	1900	868	558	435
AC-FT	23450	19460	12840	11290	9820	16860	40610	107900	156100	79770	40760	29600
CFSM	.85	.73	.47	.41	.39	.61	1.52	3.92	5.86	2.90	1.48	1.11
IN.	.98	.81	.54	.47	.41	.71	1.70	4.52	6.53	3.34	1.71	1.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1999, BY WATER YEAR (WY)

MEAN	316	268	233	214	205	232	634	1795	2055	967	491	374
MAX	472	455	366	315	293	406	1324	3032	3998	1904	809	569
(WY)	1983	1984	1984	1971	1963	1986	1962	1997	1971	1975	1971	1997
MIN	191	150	142	133	132	173	238	333	387	228	205	198
(WY)	1993	1993	1993	1993	1993	1967	1975	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1937 - 1999	
ANNUAL TOTAL	256862		276522			
ANNUAL MEAN	704		758		654	
HIGHEST ANNUAL MEAN					1022	1971
LOWEST ANNUAL MEAN					259	1977
HIGHEST DAILY MEAN	2300	Jun 14	3500	May 31	6170	Jun 19 1971
LOWEST DAILY MEAN	130	Dec 23	130	Dec 23	92	Jan 2 1978
ANNUAL SEVEN-DAY MINIMUM	151	Dec 19	151	Dec 19	124	Feb 26 1993
ANNUAL RUNOFF (AC-FT)	509700		548500		473800	
ANNUAL RUNOFF (CFSM)	1.57		1.69		1.46	
ANNUAL RUNOFF (INCHES)	21.33		22.96		19.83	
10 PERCENT EXCEEDS	1840		2100		1760	
50 PERCENT EXCEEDS	427		394		321	
90 PERCENT EXCEEDS	240		180		190	

e Estimated

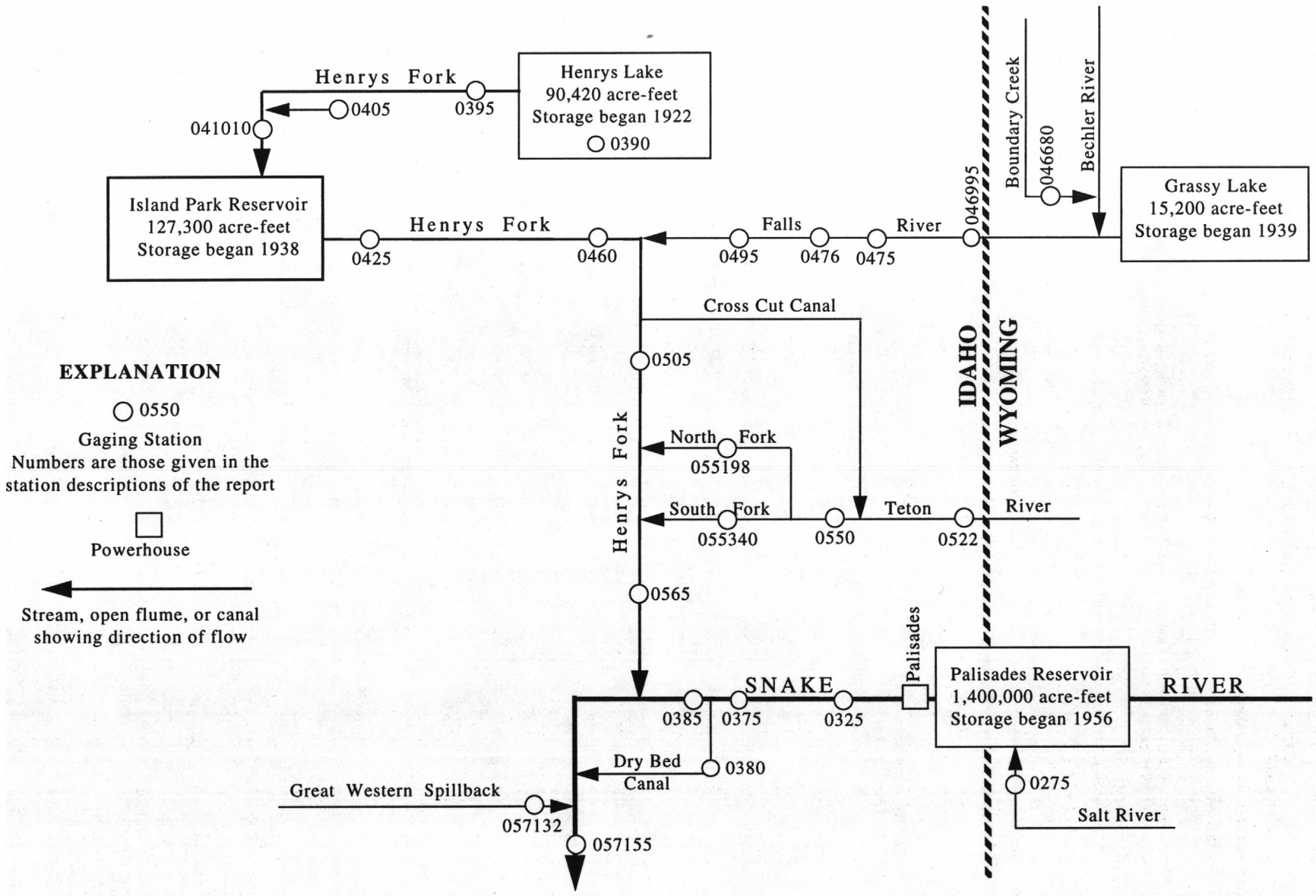


Figure 10. Gaging stations in Snake River basin between Palisades Reservoir and Idaho Falls.

SALT RIVER BASIN

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY

LOCATION.--Lat 43°04'47", long 111°02'12", in SW¼NE¼ sec.28, T.36 N., R.119 W., Lincoln County, Wyoming, Hydrologic Unit 17040105, on right bank 3.4 mi northwest of Etna, and 8.0 mi upstream from maximum flowline of Palisades Reservoir.

DRAINAGE AREA.--829 mi^2.

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,675.78 ft above sea level (levels by U.S. Bureau of Reclamation).

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Diversions above station for power developments, industry, municipal supply, and irrigation of about 60,500 acres of which about 1,000 acres are below station (1966 determination). For details on adjudication of diversions, see Remarks for this station in WSP 1347.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,090 ft^3/s June 2, 1986, gage height, 5.71 ft; minimum, 160 ft^3/s Jan. 7, 8, 1971, gage height, 1.53 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,850 ft^3/s May 31, gage height, 5.24 ft; minimum daily, 403 ft^3/s Dec. 23.

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	632	618	488	464	448	551	2080	3650	1620	728	718
2	700	625	610	487	420	452	536	2120	3330	1560	720	716
3	717	619	599	476	455	446	529	2090	3330	1530	729	727
4	720	619	596	478	446	442	524	1870	3200	1520	769	802
5	704	616	584	485	451	434	530	1670	3110	1480	771	757
6	691	617	550	481	445	421	535	1540	3120	1430	727	727
7	692	614	550	481	457	427	587	1510	3340	1380	700	710
8	684	612	546	481	470	428	637	1620	3560	1350	692	701
9	678	609	547	481	465	428	717	1620	3400	1300	684	695
10	671	604	514	481	484	427	674	1550	3080	1250	672	695
11	663	596	502	479	454	419	653	1480	2850	1190	692	697
12	658	595	526	478	429	420	680	1440	2670	1130	724	713
13	656	588	525	481	436	415	775	1550	2600	1060	705	709
14	650	590	518	475	447	413	908	1600	2620	1000	685	709
15	654	593	510	489	450	416	942	1530	2660	1020	676	705
16	685	594	502	489	442	416	931	1500	2720	1030	657	699
17	680	588	500	481	445	419	989	1430	2860	1020	651	692
18	667	594	505	489	439	422	1150	1420	2910	995	651	688
19	659	590	488	494	444	425	1320	1530	2800	951	650	697
20	651	583	433	494	433	432	1420	1660	2740	910	649	726
21	650	581	414	497	431	446	1410	1820	2730	855	653	708
22	644	598	418	483	434	466	1250	2000	2710	829	652	698
23	645	602	403	491	434	497	1150	2170	2670	799	646	688
24	658	600	443	486	429	506	1120	2410	2550	777	643	685
25	641	592	466	473	434	544	1230	2700	2370	764	644	677
26	629	578	476	472	439	599	1280	3030	2240	757	635	667
27	623	572	479	472	429	614	1320	3190	2090	747	635	677
28	627	586	497	450	433	573	1480	3220	1920	742	671	676
29	621	628	511	420	---	553	1620	3300	1790	746	661	670
30	628	636	502	431	---	557	1910	3410	1700	762	672	665
31	648	---	490	441	---	552	---	3780	---	747	728	---
TOTAL	20587	18051	15822	14784	12439	14457	29358	63840	83320	33251	21172	21094
MEAN	664	602	510	477	444	466	979	2059	2777	1073	683	703
MAX	720	636	618	497	484	614	1910	3780	3650	1620	771	802
MIN	621	572	403	420	420	413	524	1420	1700	742	635	665
AC-FT	40830	35800	31380	29320	24670	28680	58230	126600	165300	65950	41990	41840
CFSM	.80	.73	.62	.58	.54	.56	1.18	2.48	3.35	1.29	.82	.85
IN.	.92	.81	.71	.66	.56	.65	1.32	2.86	3.74	1.49	.95	.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1999, BY WATER YEAR (WY)

MEAN	623	591	517	452	440	480	968	1762	1526	875	636	648
MAX	912	838	712	584	702	1121	2204	3586	3486	1809	997	961
(WY)	1983	1984	1984	1997	1963	1986	1986	1997	1997	1975	1983	1971
MIN	336	347	342	318	309	362	503	306	275	271	266	342
(WY)	1978	1978	1993	1993	1993	1988	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1954 - 1999	
ANNUAL TOTAL	332127		348175			
ANNUAL MEAN	910		954		794	
HIGHEST ANNUAL MEAN					1272	1997
LOWEST ANNUAL MEAN					430	1992
HIGHEST DAILY MEAN	2340	Jun 5	3780	May 31	5030	Jun 2 1986
LOWEST DAILY MEAN	403	Dec 23	403	Dec 23	180	Jan 7 1971
ANNUAL SEVEN-DAY MINIMUM	436	Dec 20	417	Mar 11	226	May 10 1977
ANNUAL RUNOFF (AC-FT)	658800		690600		575400	
ANNUAL RUNOFF (CFSM)	1.10		1.15		.96	
ANNUAL RUNOFF (INCHES)	14.90		15.62		13.02	
10 PERCENT EXCEEDS	1980		2100		1570	
50 PERCENT EXCEEDS	656		653		588	
90 PERCENT EXCEEDS	487		442		385	

SNAKE RIVER MAIN STEM

13032500 SNAKE RIVER NEAR IRWIN, ID

LOCATION.--Lat 43°21'03", long 111°13'06", in NE¼NE¼ sec.7, T.1 S., R.45 E., Bonneville County, Palisades Dam quad., Hydrologic Unit 17040104, on right bank at U.S. Bureau of Reclamation headquarters, 1.5 mi downstream from Palisades Dam, 2 mi upstream from Palisades Creek, 5 mi southeast of Irwin, and at mile 900.2.

DRAINAGE AREA.--5,225 mi^2.

PERIOD OF RECORD.--March to October 1935, April to October 1936, May 1949 to current year. Records for station "at Calamity Point, near Irwin" April to August 1934, April to October 1935, April to October 1936, March 1939 to September 1941 are equivalent to those for this station.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,353.00 ft above sea level (levels by U.S. Bureau of Reclamation). Mar. 30, 1935 to Oct. 31, 1936, water-stage recorder at site 3.5 mi downstream at different datum. May 1, 1949 to Mar. 22, 1950, nonrecording gage at site 1,100 ft downstream at datum 1.9 ft higher.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Jackson Lake and Palisades Reservoir. Diversion from tributaries above station for irrigation in Wyoming and Idaho of about 95,300 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,400 ft^3/s June 19-22, 1997; maximum gage height, 15.25 ft, June 19, 20, 1997; minimum, 19 ft^3/s Nov. 8, 1956, result of discharge measurement.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in early June 1894 probably was higher than that of June 19-22, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 20,500 ft^3/s June 24; minimum, 2,240 ft^3/s Nov. 17, gage height, 5.42 ft.

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	5010	2970	2460	2480	4780	5760	11000	8850	18100	12100	11800	9210
2	4530	2960	2470	2470	4950	5760	11000	8810	18100	12000	11600	8900
3	4500	2760	2480	2490	4950	5770	11000	8800	18100	12000	10700	8180
4	4520	2500	2470	2480	4950	5770	11000	8810	17500	12100	10100	7910
5	4500	2470	2470	2480	5210	5780	11000	8810	17100	12100	9850	7880
6	4480	2480	2480	2480	5470	5130	11000	9880	17100	12100	9280	7850
7	4470	2460	2500	2480	5710	4440	11000	11000	16600	13000	8900	7860
8	4260	2470	2490	2480	5740	3820	10500	12000	16200	13000	8900	7890
9	4030	2450	2480	2470	5740	3800	9990	12100	16300	13000	8900	7920
10	3770	2470	2480	2480	5750	4370	9510	12100	16300	13000	8890	7910
11	3750	2470	2480	2480	5760	6240	9480	12600	16400	12600	8920	7840
12	3750	2480	2470	2460	5760	7240	9440	13000	16800	12500	8900	7910
13	3760	2480	2470	2480	5770	8250	8740	13000	17300	12500	8880	7900
14	3520	2470	2460	2480	5750	9240	8770	13000	17700	12500	8860	7890
15	3230	2460	2470	2480	5740	10200	8800	13000	18500	12500	8900	7890
16	3220	2470	2480	2480	5750	11000	8800	13000	19000	12600	8880	7920
17	3230	2500	2480	2490	5750	11000	8790	13000	19100	12600	8430	7910
18	3220	2460	2470	2470	5750	11000	8800	13000	19100	12500	8440	7920
19	3220	2460	2480	2470	5750	11000	8800	13000	19500	12500	8430	7920
20	3220	2460	2480	2470	5760	11000	8800	13000	19600	12100	8450	7910
21	3230	2470	2480	2470	5770	11000	8790	13000	20000	12000	8930	7910
22	3200	2470	2490	2940	5740	11000	8800	13000	20000	12000	8920	7910
23	3220	2470	2480	2960	5740	10900	8790	13100	20300	12000	8940	7930
24	3200	2470	2480	2960	5740	11000	8800	13900	20500	12000	8920	7940
25	3210	2470	2460	2970	5780	11000	8790	15400	20200	12000	8880	7940
26	3200	2460	2460	3510	5770	11000	8800	17000	19200	12000	8900	7930
27	3210	2450	2460	3790	5790	11000	8790	17500	18200	12000	8900	7430
28	2980	2460	2470	4030	5770	11000	8790	17500	16700	12000	8880	6910
29	2970	2460	2480	4200	---	11000	8800	17500	14900	12000	8890	6420
30	2970	2480	2480	4440	---	11000	8830	17600	13500	12000	9180	6150
31	2960	---	2480	4580	---	11000	---	17700	---	12000	9230	---
TOTAL	112540	75360	76740	88400	156890	267470	284200	403960	537900	381300	284580	234990
MEAN	3630	2512	2475	2852	5603	8628	9473	13030	17930	12300	9180	7833
MAX	5010	2970	2500	4580	5790	11000	11000	17700	20500	13000	11800	9210
MIN	2960	2450	2460	2460	4780	3800	8740	8800	13500	12000	8430	6150
AC-FT	223200	149500	152200	175300	311200	530500	563700	801300	1067000	756300	564500	466100

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

MEAN	3243	2209	2225	2317	2486	3672	6276	12270	15220	13110	9001	6557
MAX	7716	4958	5485	5620	10130	13090	15760	20540	29550	17750	12400	9652
(WY)	1972	1984	1984	1984	1997	1997	1971	1956	1997	1971	1966	1990
MIN	1178	796	713	702	715	607	1011	2949	9706	8757	6702	3439
(WY)	1978	1989	1989	1989	1989	1977	1963	1993	1940	1940	1992	1940

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1935 - 1999	
ANNUAL TOTAL	2781490		2904330			
ANNUAL MEAN	7621		7957		6578	
HIGHEST ANNUAL MEAN					10710	1997
LOWEST ANNUAL MEAN					4394	1940
HIGHEST DAILY MEAN	18900	Jul 4	20500	Jun 24	40300	Jun 20 1997
LOWEST DAILY MEAN	2450	Nov 9	2450	Nov 9	19	Nov 8 1956
ANNUAL SEVEN-DAY MINIMUM	2460	Nov 23	2460	Nov 23	37	Nov 4 1956
ANNUAL RUNOFF (AC-FT)	5517000		5761000		4766000	
10 PERCENT EXCEEDS	15000		14300		14000	
50 PERCENT EXCEEDS	6980		7920		4620	
90 PERCENT EXCEEDS	2480		2470		1200	

SNAKE RIVER MAIN STEM

13037500 SNAKE RIVER NEAR HEISE, ID

LOCATION.--Lat 43°36'45", long 111°39'33", in SE¼SW¼ sec.5, T.3 N., R.41 E., Bonneville County, Poplar quad., Hydrologic Unit 17040104, on left bank 850 ft upstream from Anderson Canal headgate, 2.4 mi upstream from Heise, 6 mi east of Ririe, 24 mi upstream from Henrys Fork, and at mile 853.6.

DRAINAGE AREA.--5,752 mi^2. Mean elevation, 7,770 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1910 to current year. Monthly discharge only for some periods, published in WSP 1317. Prior to 1911, published as "South Fork of Snake River near Heise."

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1347: 1912.

GAGE.--Water-stage recorder. Datum of gage is 5,015.3 ft above sea level. Prior to July 9, 1913, nonrecording gage, and July 9, 1913 to Sept. 29, 1922, water-stage recorder at datum 2.65 ft higher. Sept. 30, 1922 to Sept. 30, 1933, water-stage recorder at datum 2.0 ft higher.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Some diurnal fluctuations occur during winter powerplant operations at Palisades. Riley Ditch, 1.5 mi upstream, diverted 3,830 acre-ft during the year. Diversions from tributaries above station for irrigation in Wyoming and Idaho of about 104,000 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 60,000 ft^3/s May 19, 1927, result of washing out of landslide on Gros Ventre River, gage height, about 16.0 ft, present datum; minimum, 460 ft^3/s Nov. 10, 12, 1956, gage height, -0.18 ft.

Maximum discharge since filling of Palisades Reservoir (Nov. 1956), 43,500 ft^3/s June 13, 1997, gage height, 11.26 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in early June 1894 was estimated as 65,000 ft^3/s by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 20,900 ft^3/s June 24; minimum daily, 3,090 ft^3/s Dec. 23.

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	5530	3550	3200	3160	5290	6350	11700	10300	19200	13200	12400	9900
2	5260	3560	3210	3140	5540	6350	11700	10300	19200	12800	12200	9640
3	5070	3460	3200	3130	5580	6360	11700	10300	19400	12800	11500	9040
4	5090	3250	3230	3150	5550	6360	11700	10100	19100	12800	10900	8520
5	5040	3120	3200	3130	5660	6360	11700	9860	18300	12800	10600	8470
6	5020	3180	3200	3140	5970	5970	11700	10700	18400	12700	10300	8410
7	5000	3120	3220	3140	6290	5330	11700	11900	18200	13400	9640	8400
8	4890	3140	3230	3130	6310	4730	11400	13000	17600	13600	9430	8420
9	4640	3110	3190	3130	6340	4490	10900	13400	17600	13600	9430	8450
10	4420	3120	3170	3120	6360	4500	10400	13300	17400	13600	9400	8440
11	4310	3120	3170	3130	6330	6360	10200	13500	17300	13300	9500	8380
12	4310	3140	3180	3120	6310	7430	10200	13900	17800	13100	9470	8420
13	4310	3140	3170	3120	6320	8370	9470	14000	18200	13100	9430	8400
14	4180	3140	3170	3120	6340	9420	9330	13900	18700	13100	9390	8390
15	3920	3140	3160	3140	6330	10600	9350	14000	19400	13100	9410	8380
16	3810	3150	3170	3160	6330	11500	9390	13900	19800	13100	9400	8400
17	3810	3200	3170	3150	6350	11600	9420	13800	20000	13100	9090	8390
18	3810	3180	3160	3140	6330	11600	9530	13900	19900	13100	8980	8390
19	3810	3160	3140	3140	6340	11700	9660	14000	20200	13000	8980	8410
20	3800	3160	3140	3150	6330	11700	9780	14100	20200	12700	9000	8410
21	3810	3180	3110	3160	6350	11700	9790	14400	20400	12600	9340	8380
22	3800	3230	3110	3390	6340	11700	9670	14600	20600	12500	9430	8360
23	3840	3200	3090	3640	6330	11800	9580	14800	20700	12500	9440	8390
24	3820	3210	3110	3620	6330	11800	9560	15400	20900	12500	9430	8380
25	3810	3190	3120	3610	6340	11800	9660	16600	20800	12500	9420	8380
26	3770	3170	3120	3880	6360	11900	9620	18200	19900	12500	9390	8380
27	3770	3170	3130	4430	6350	11800	9610	19000	18900	12500	9410	8200
28	3640	3190	3140	4510	6360	11700	9770	19000	17700	12500	9410	7460
29	3540	3220	3160	4790	---	11700	9950	19000	16100	12500	9400	7130
30	3560	3220	3160	4890	---	11700	10200	19100	14500	12500	9720	6910
31	3550	---	3160	5180	---	11700	---	19200	---	12500	9950	---
TOTAL	130940	96120	98090	107840	172960	286380	308340	441460	566400	399600	302790	251630
MEAN	4224	3204	3164	3479	6177	9238	10280	14240	18880	12890	9767	8388
MAX	5530	3560	3230	5180	6360	11900	11700	19200	20900	13600	12400	9900
MIN	3540	3110	3090	3120	5290	4490	9330	9860	14500	12500	8980	6910
AC-FT	259700	190700	194600	213900	343100	568000	611600	875600	1123000	792600	600600	499100
MEAN†	4296	4022	4735	4339	2565	1968	4118	20014	28560	16346	6187	4817
AC-FT†	264204	293309	291202	266848	142358	121032	245021	1230861	1699320	1005279	380500	286612

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1999, BY WATER YEAR (WY)

MEAN	3646	2857	2707	2647	2722	3505	6466	13450	17150	13400	9237	6425
MAX	8179	5758	6270	6233	10520	13760	16800	26960	36520	22920	13430	10160
(WY)	1972	1984	1984	1984	1997	1997	1971	1928	1918	1917	1917	1990
MIN	1666	1183	1064	1084	1040	983	1398	3951	6416	6850	3761	2791
(WY)	1978	1989	1989	1989	1988	1977	1963	1991	1934	1934	1919	1934

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1911 - 1999	
ANNUAL TOTAL	3057740		3162550			
ANNUAL MEAN	8377		8665		7037	
ADJUSTED ANNUAL TOTAL†	3017351		3111765			
ADJUSTED ANNUAL MEAN†	8267		8525			
HIGHEST ANNUAL MEAN					11590	1997
LOWEST ANNUAL MEAN					4117	1934
HIGHEST DAILY MEAN	19200	Jun 6	20900	Jun 24	51600	Jun 15 1918
LOWEST DAILY MEAN	3090	Dec 23	3090	Dec 23	460	Nov 10 1956
ANNUAL SEVEN-DAY MINIMUM	3110	Dec 21	3110	Dec 21	481	Nov 6 1956
ANNUAL RUNOFF (AC-FT)	6065000		6273000		5098000	
10 PERCENT EXCEEDS	16100		15700		15200	
50 PERCENT EXCEEDS	7510		8410		4340	
90 PERCENT EXCEEDS	3180		3150		1910	

† Adjusted for storage in Jackson Lake and Palisades Reservoir; no account taken for travel time between reservoirs and Heise gaging station.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953 to 1996, April to October 1999 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: January 1953 to September 1976, March 1978 to July 1979, May 31 to September 19, 1996, May 1 to September 30, 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 20 ° C Aug. 6, 7, 1970; Minimum, 0.0 ° C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 14.5 ° C Aug. 27, 29-30.

WATER-QUALITY DATA, APRIL 1999 to OCTOBER 1999

DATE	TIME (00061)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00095)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00400)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00020)	TEMPER-ATURE AIR (DEG C) (00010)	TEMPER-ATURE WATER (DEG C) (00076)	TUR-BID-ITY (NTU) (00300)	OXYGEN, DIS-SOLVED (MG/L) (00301)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (31625)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31673)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
APR											
23...	1252	9560	403	8.4	8.8	4.6	2.6	11.1	105	<1	K2
MAY											
28...	1022	19000	333	8.3	17.0	9.0	14	9.7	101	K18	K17
JUN											
28...	1400	18000	275	8.2	20.0	11.0	7.5	9.0	99	K13	55
AUG											
04...	1315	10800	288	8.3	27.4	13.2	2.0	9.4	109	K8	K4
SEP											
28...	1108	7460	345	8.4	3.0	11.1	.80	8.4	90	K3	38
OCT											
12...	1214	5130	366	8.4	22.0	11.2	1.4	9.3	101	K2	K9

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
28...	150	43	11	9.5	12	1.6	150	2

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
28...	129	38	7.8	.35	9.3	198	.27	3990

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 TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
23...	<.010	.131	<.020	.12	<.050	.011	5	129
MAY								
28...	<.010	.081	.041	.39	.098	.011	71	3640
JUN								
28...	<.010	.064	<.020	.19	.063	.013	14	680
AUG								
04...	<.010	.061	<.020	.23	E.039	<.010	8	233
SEP								
28...	<.010	.058	<.020	E.05	<.050	<.010	4	81
OCT								
12...	<.010	<.050	<.020	E.09	<.050	<.010	2	28

E Positive detection, but below stated detection limit.
K Results based on counts outside ideal range.

SNAKE RIVER BASIN

13037500 SNAKE RIVER NEAR HEISE, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	7.9	6.0	6.9
2	---	---	---	7.7	5.9	6.3
3	---	---	---	6.8	5.7	6.3
4	---	---	---	6.8	5.1	6.0
5	---	---	---	6.8	4.6	5.8
6	---	---	---	8.3	4.0	5.9
7	---	---	---	8.3	4.9	6.6
8	---	---	---	7.7	5.5	6.6
9	---	---	---	7.9	6.0	6.9
10	---	---	---	7.4	5.2	6.2
11	---	---	---	8.0	5.4	6.6
12	---	---	---	7.7	5.9	6.9
13	---	---	---	7.7	6.5	7.1
14	---	---	---	8.5	6.0	7.2
15	---	---	---	7.4	6.3	6.5
16	---	---	---	7.9	6.0	6.8
17	---	---	---	8.7	5.9	7.2
18	---	---	---	9.1	6.6	7.9
19	---	---	---	9.3	6.8	8.1
20	---	---	---	10.2	6.6	8.3
21	---	---	---	10.7	7.1	8.9
22	---	---	---	11.1	7.7	9.2
23	---	---	---	11.1	7.1	9.1
24	---	---	---	11.1	7.6	9.4
25	---	---	---	11.4	8.2	9.8
26	---	---	---	11.3	8.5	9.7
27	---	---	---	11.4	8.5	9.8
28	---	---	---	10.8	8.8	9.9
29	---	---	---	10.2	8.7	9.4
30	---	---	---	9.4	8.8	9.0
31	---	---	---	9.6	8.5	9.0
MONTH	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.1	8.8	9.8	12.1	10.7	11.3	13.1	12.8	12.9	14.2	14.1	14.1
2	10.4	9.4	9.8	12.1	10.8	11.4	13.1	12.8	12.9	14.2	14.1	14.2
3	10.8	9.1	9.9	12.1	11.0	11.5	13.3	13.0	13.1	14.2	14.1	14.1
4	11.0	8.8	9.8	12.1	11.3	11.6	13.3	13.0	13.1	14.1	13.9	14.0
5	10.2	8.5	9.2	12.1	11.0	11.5	13.3	13.1	13.2	14.2	13.9	14.1
6	10.4	9.1	9.6	12.2	11.3	11.7	13.3	13.1	13.2	14.2	14.1	14.1
7	10.7	9.0	9.6	12.2	11.4	11.7	13.5	13.1	13.2	14.2	14.1	14.1
8	10.0	9.1	9.6	12.1	11.1	11.5	13.6	13.3	13.4	14.1	13.9	14.0
9	11.1	8.2	9.5	12.1	11.3	11.6	13.8	13.5	13.6	14.1	13.9	14.0
10	11.1	8.3	9.6	12.2	11.4	11.8	13.6	13.5	13.6	14.2	14.1	14.1
11	11.6	8.5	9.9	12.2	11.4	11.9	13.6	13.5	13.5	14.1	13.9	14.1
12	11.9	8.5	10.1	12.4	11.6	11.9	13.6	13.3	13.4	14.1	13.9	14.0
13	11.7	8.7	10.2	12.4	11.7	12.0	13.6	13.5	13.5	14.1	13.8	13.9
14	11.9	9.0	10.3	12.4	11.7	12.0	13.8	13.6	13.7	14.1	13.8	13.9
15	11.6	9.3	10.3	12.2	11.7	11.9	13.9	13.6	13.7	14.1	13.9	14.0
16	11.6	9.3	10.3	12.2	11.6	11.9	13.8	13.6	13.7	14.1	13.9	14.0
17	11.3	9.6	10.3	12.1	11.7	11.9	13.9	13.6	13.8	14.1	13.9	14.0
18	11.7	9.3	10.4	12.2	11.7	11.9	13.9	13.8	13.9	14.1	13.9	14.0
19	11.3	9.6	10.3	12.2	11.9	12.1	14.1	13.8	13.9	14.1	14.1	14.1
20	12.2	9.6	10.6	12.4	12.1	12.2	14.1	13.9	14.0	14.1	13.9	14.0
21	12.2	9.9	10.9	12.5	12.1	12.3	14.2	13.9	14.1	14.1	13.9	14.0
22	11.6	10.0	10.7	12.7	12.2	12.4	14.2	14.1	14.2	14.1	13.9	14.0
23	12.1	9.9	10.8	12.7	12.2	12.5	14.4	14.1	14.2	14.1	13.8	14.0
24	11.7	10.0	10.8	12.8	12.4	12.6	14.4	14.1	14.2	13.9	13.8	13.9
25	11.7	10.5	11.0	12.8	12.4	12.6	14.4	14.1	14.2	13.9	13.6	13.8
26	11.6	9.9	10.7	12.8	12.4	12.6	14.4	14.2	14.3	13.8	13.3	13.5
27	11.6	10.2	10.9	12.8	12.5	12.7	14.5	14.2	14.3	13.3	13.1	13.2
28	11.7	10.2	10.9	12.8	12.5	12.7	14.4	14.2	14.3	13.1	12.7	12.9
29	11.6	10.5	11.0	12.8	12.7	12.8	14.5	14.2	14.4	12.8	12.5	12.7
30	11.6	10.5	11.0	13.0	12.7	12.8	14.5	14.2	14.3	12.8	12.5	12.7
31	---	---	---	13.0	12.8	12.9	14.2	14.2	14.2	---	---	---
MONTH	12.2	8.2	10.3	13.0	10.7	12.1	14.5	12.8	13.7	14.2	12.5	13.9

SNAKE RIVER MAIN STEM

13038000 DRY BED NEAR RIRIE, ID

LOCATION.--Lat 43°38'21", long 111°42'55", in NE¼NW¼ sec.35, T.4 N., R.40 E., Jefferson County, Hydrologic Unit 17040201, on right bank 30 ft downstream from county road bridge, 1.3 mi downstream from head, and 2.7 mi east of Ririe.

PERIOD OF RECORD.--1923-27 and miscellaneous measurements during 1970-72 (formerly published as "Great Feeder Canal"), October 1976 to current year (irrigation seasons only prior to 1977).

GAGE.--Water-stage recorder. Elevation of gage is 4,985 ft above sea level, from topographic map.

REMARKS.--Records good. Station equipment includes satellite telemetry. Canal occupies an old high water channel of Snake River and is a diversion or feeder canal from Snake River to a group of canals. Flow from Snake River regulated by headgates 1.3 mi upstream from gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,090 ft³/s June 20, 1986, July 10, 1998; no flow Apr. 3-12, 1997, Apr. 9-10, 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	1970	556	347	215	220	474	48	518	3450	4300	3280	3350
2	1930	618	347	212	363	472	13	601	3000	4220	2880	3170
3	1890	851	347	213	362	473	9.2	1040	2660	4210	2840	3110
4	1840	829	348	215	360	471	8.2	1040	2680	4200	2800	3060
5	1560	813	348	214	362	470	5.7	1040	2660	4210	2770	3060
6	1570	819	347	213	365	461	4.4	1280	2670	4470	2740	3050
7	1560	813	347	322	371	443	3.3	1390	2650	4540	2880	3050
8	1550	812	347	377	396	421	3.1	1430	2640	4560	2940	3040
9	1520	810	346	377	475	411	1.7	1440	2630	4540	2930	3040
10	1490	809	347	375	476	412	1.6	1440	2610	4520	3170	3030
11	1480	808	346	375	474	472	1.5	1630	2910	4260	3280	3020
12	1480	808	344	374	475	496	1.8	1890	3100	4240	3270	3020
13	1480	808	343	373	474	510	2.2	1890	3190	4250	3100	3020
14	1460	804	343	372	475	522	1.3	1880	3870	4240	3040	3010
15	1420	802	343	375	476	534	.92	1980	4150	4230	3050	3020
16	1390	801	358	378	476	543	1.4	1760	4500	4220	3050	3030
17	1400	806	357	377	477	542	329	2120	4450	4220	3020	3030
18	1410	804	355	377	476	348	521	2270	4450	4220	3000	3030
19	1420	762	322	377	476	264	523	2270	4490	4210	3000	3020
20	1420	551	e100	377	475	300	523	2270	4560	4170	3210	3010
21	1420	551	e150	377	476	326	524	2460	4560	4150	3340	2980
22	1420	478	e150	379	475	289	521	2800	4400	4160	3340	2980
23	1420	353	e150	387	474	483	518	3120	4350	4150	3350	2960
24	1430	352	e150	387	471	485	519	3160	4290	4160	3370	2960
25	1430	348	e150	387	473	484	520	3530	4010	3930	3380	2960
26	1430	347	157	395	475	289	517	3770	3950	3700	3370	2950
27	1430	347	155	413	471	201	516	3790	3880	3700	3340	2920
28	1410	347	157	413	471	198	517	3810	3810	3700	3330	2820
29	1390	347	154	427	---	198	514	3700	3850	3700	3340	2700
30	1390	347	168	433	---	198	513	3490	4210	3690	3370	2400
31	996	---	216	387	---	176	---	3500	---	3680	3400	---
TOTAL	46406	19301	8439	10873	12290	12366	7182.32	68309	108630	128750	97180	89800
MEAN	1497	643	272	351	439	399	239	2204	3621	4153	3135	2993
MAX	1970	851	358	433	477	543	524	3810	4560	4560	3400	3350
MIN	996	347	100	212	220	176	.92	518	2610	3680	2740	2400
AC-FT	92050	38280	16740	21570	24380	24530	14250	135500	215500	255400	192800	178100

CAL YR 1998 TOTAL 628279.08 MEAN 1721 MAX 5090 MIN .00 AC-FT 1246000
WTR YR 1999 TOTAL 609526.32 MEAN 1670 MAX 4560 MIN .92 AC-FT 1209000

e Estimated

SNAKE RIVER MAIN STEM

13038500 SNAKE RIVER AT LORENZO, ID

LOCATION.--Lat 43°44'06", long 111°52'33", in NE¼SW¼ sec.28, T.5 N., R.39 E., Jefferson County, Hydrologic Unit 17040201, on left bank 0.5 mi downstream from bridge on U.S. Highway 191, 0.5 mi north of Lorenzo, 5.5 mi upstream from Henrys Fork, and at mile 837.9.

DRAINAGE AREA.--5,810 mi^2.

PERIOD OF RECORD.--January 1978 to current year. Prior to January 1978 monthly mean discharges for the period April to September for the years 1924 to 1927 published in WSP 1317.

REVISED RECORDS.--WDR ID-81-1: 1980.

GAGE.--Water-stage recorder. Elevation of gage is 4,850 ft above sea level, from topographic map. Prior to January 1978 at site 0.5 mi upstream at different datum.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Flow partly regulated by Jackson Lake and Palisades Reservoir. Some diurnal fluctuations during winter from powerplant operations at Palisades. Diversion above station for irrigation in Wyoming and Idaho of about 111,600 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,000 ft^3/s May 19, 1927, result of landslide washout on Gros Ventre River, gage height, 9.85 ft, site and datum then in use; maximum discharge excluding 1927, 38,300 ft^3/s June 22, 1997, gage height, 13.79 ft; minimum, 48 ft^3/s Nov. 15, 1979, gage height, 2.48 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 15,300 ft^3/s June 4; maximum discharge observed, 15,600 ft^3/s June 4, gage height, 10.56 ft, result of current meter measurement; minimum daily, 1,310 ft^3/s Oct. 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	2370	2290	2360	2370	4470	5380	11000	9150	14000	6620	6760	4770
2	2230	2430	2340	2340	4600	5370	11000	9130	14700	6040	7150	4890
3	1980	2260	2340	2330	4660	5370	11000	8660	15200	5920	6750	4540
4	2020	2070	2370	2350	4640	5380	11000	8410	15300	5910	6230	4070
5	2300	1910	2350	2320	4670	5370	11000	8220	14600	5910	5950	4020
6	2280	1950	2310	2330	5060	5110	11000	8550	14700	5590	5700	3960
7	2280	1910	2330	2230	5300	4470	11000	9750	14600	5830	5130	3930
8	2220	1900	2350	2140	5380	3880	10800	10600	13900	6140	4740	3920
9	2040	1880	2320	2130	5330	3540	10300	11000	13800	6180	4750	3910
10	1870	1870	2290	2120	5380	3530	9780	10900	13600	6110	4510	3880
11	1740	1870	2290	2130	5330	4940	9500	10800	13400	6170	4430	3800
12	1740	1870	2290	2120	5330	6220	9500	11000	13500	6000	4440	3780
13	1740	1870	2290	2120	5330	7180	8940	11000	13900	5950	4600	3800
14	1700	1870	2270	2110	5340	8220	8640	11000	13300	5900	4670	3770
15	1530	1860	2260	2130	5340	9360	8610	10900	13400	5900	4670	3760
16	1380	1850	2270	2150	5330	10400	8670	11000	13300	5960	4680	3750
17	1370	1880	2270	2140	5340	10600	8440	10700	13400	6040	4470	3730
18	1380	1890	2260	2140	5320	10700	8300	10400	13300	6080	4330	3680
19	1370	1850	2230	2140	5330	10800	8440	10600	13400	6010	4330	3670
20	1390	2060	e2400	2160	5320	10800	8570	10700	13700	5820	4150	3650
21	1390	2080	e2400	2160	5360	10700	8650	10500	13800	5640	4190	3600
22	1400	2170	e2400	2290	5360	10800	8500	10300	14000	5640	4330	3580
23	1430	2300	e2400	2640	5330	10600	8420	10000	14000	5630	4330	3600
24	1460	2340	e2400	2610	5330	10600	8420	10300	14400	5670	4310	3600
25	1470	2330	e2400	2600	5350	10600	8530	10800	14700	5880	4270	3600
26	1470	2340	2420	2730	5370	10800	8450	12100	14100	6180	4220	3620
27	1460	2330	2420	3390	5370	11000	8390	13000	13200	6150	4200	3590
28	1420	2360	2440	3420	5390	10800	8580	12900	12100	6150	4190	3060
29	1310	2400	2440	3750	---	10800	8760	13000	10300	6210	4190	2890
30	1330	2400	2440	3810	---	10800	8960	13600	8270	6330	4380	3000
31	1610	---	2370	4180	---	10800	---	13900	---	6420	4680	---
TOTAL	52680	62390	72720	77580	145660	254920	281150	332870	407870	185980	149730	113420
MEAN	1699	2080	2346	2503	5202	8223	9372	10740	13600	5999	4830	3781
MAX	2370	2430	2440	4180	5390	11000	11000	13900	15300	6620	7150	4890
MIN	1310	1850	2230	2110	4470	3530	8300	8220	8270	5590	4150	2890
AC-FT	104500	123800	144200	153900	288900	505600	557700	660200	809000	368900	297000	225000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1999, BY WATER YEAR (WY)

MEAN	1486	1346	2015	2287	2323	3847	5750	8742	10390	7681	4347	3095
MAX	3028	4277	5707	5976	9132	12900	13850	16750	26720	12220	6797	6213
(WY)	1983	1984	1984	1984	1997	1997	1986	1986	1997	1982	1997	1990
MIN	405	243	497	431	433	426	788	1761	4017	4297	2154	744
(WY)	1982	1982	1981	1981	1988	1988	1993	1991	1989	1985	1926	1926

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1924 - 1999	
ANNUAL TOTAL	1939900		2136970			
ANNUAL MEAN	5315		5855		4506	
HIGHEST ANNUAL MEAN					8813	1997
LOWEST ANNUAL MEAN					2431	1989
HIGHEST DAILY MEAN	14400	Jun 6	15300	Jun 4	37800	Jun 22 1997
LOWEST DAILY MEAN	1310	Oct 29	1310	Oct 29	110	Dec 23 1990
ANNUAL SEVEN-DAY MINIMUM	1380	Oct 16	1380	Oct 16	118	Mar 29 1993
ANNUAL RUNOFF (AC-FT)	3848000		4239000		3265000	
10 PERCENT EXCEEDS	10400		11000		11100	
50 PERCENT EXCEEDS	4540		4740		3370	
90 PERCENT EXCEEDS	1930		1930		642	

e Estimated

HENRYS FORK BASIN

13039000 HENRYS LAKE NEAR LAKE, ID

LOCATION.--Lat 44°35'51", long 111°21'10", in SW¼NW¼ sec.26, T.15 N., R.43 E., Fremont County, Hydrologic Unit 17040202, at dam on Henrys Fork, 5.2 mi south of former Post Office at Lake, Idaho.

DRAINAGE AREA.--99.0 mi^2, including 6.2 mi^2 of Dry Creek basin.

PERIOD OF RECORD.--June 1923 to current year (fragmentary).

REVISED RECORDS.--WDR Idaho 1982: 1981 (contents).

GAGE.--Water-stage recorder. Datum of gage is 6,457.16 ft above sea level (levels by U.S. Bureau of Reclamation). Prior to June 28, 1978, nonrecording gage at same site and datum.

REMARKS.--Station equipment includes satellite telemetry. Reservoir is formed on natural lake by concrete dam supported by downstream earth-fill dam. Storage began Sept. 21, 1922; dam completed July 1923. Capacity is 90,420 acre-ft between gage heights 0.00 (low-water level of Henrys Lake prior to construction of dam) and 16.7 ft, top of 4.7 ft flashboards on spillway. Floodwaters of Dry Creek are diverted into Henrys Lake at times. Water used for irrigation near St. Anthony. Records given herein represent usable contents.

COOPERATION.--Capacity table and occasional reservoir elevations provided by North Fork Reservoir Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 92,300 acre-ft June 4, 1981, July 10, 11, 1983, gage height, 16.98 ft; minimum observed, 140 acre-ft Nov. 8, 1934, gage height, 0.03 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 90,000 acre-ft June 23, gage height, 16.64 ft; maximum gage height, 16.88 ft, June 24 (wind affected); minimum contents, 84,200 acre-ft Apr. 24, gage height, 15.75 ft.

Capacity table (gage height in feet, and contents, in acre-feet)

15.00	79,350	17.00	92,460
16.00	85,760		

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	85200	85800	87900	---	89300	88500	85500	85000	87300	89400	88200	87700
2	85300	85800	87900	---	89300	88400	85300	85300	87300	89100	88200	87600
3	85400	85900	88100	---	89300	88300	85200	85400	87800	89000	88300	87500
4	85400	85900	88200	---	89200	88300	85200	85400	87800	88700	88400	87100
5	85100	86000	88200	---	89100	88100	85300	85400	87900	88500	88400	87000
6	85100	86000	88200	---	89200	88000	85400	85400	88300	88300	88400	86800
7	85100	86000	88200	---	89300	87900	85300	85400	88900	88300	88300	86800
8	85100	86200	88300	88800	89300	87900	85200	85300	89000	88100	88300	86700
9	85100	86200	88300	88800	89500	87800	85400	85100	88800	88100	88200	86600
10	85200	86200	88300	88800	89700	87700	85300	85200	88500	88100	88100	86600
11	85200	86200	88300	88900	89700	87500	85200	85100	88500	88100	88100	86500
12	85200	86100	88300	88900	89700	87500	84900	85400	88200	88200	88100	86400
13	85100	86100	88300	88900	89600	87400	84800	85600	88000	88100	88200	86200
14	85100	86100	88300	88800	89500	87300	84700	85600	88000	88100	88100	86200
15	85200	86200	88300	88900	89500	87100	84600	85800	88100	88100	87900	86200
16	85200	86300	88400	89000	89500	87000	84500	85800	88200	88100	87900	86000
17	85200	86500	88400	89000	89400	86900	84300	85800	88400	88100	87900	86000
18	85200	86500	88400	89100	89300	86800	84300	85600	88700	88100	87700	85800
19	85300	86500	88300	89100	89300	86600	84400	85500	89100	88100	87600	85600
20	85200	86500	88300	89300	89200	86500	84400	85400	89500	88200	87600	85600
21	85200	86700	88300	89300	89100	86400	84400	85200	89900	88300	87500	85600
22	85300	86800	88200	89500	89100	86300	84400	85300	89900	88300	87600	85600
23	85400	86900	88300	89500	89100	86200	84300	85300	90000	88300	87600	85600
24	85500	87100	88300	89600	89000	86200	84200	85300	89900	88300	87500	85400
25	85600	87200	88300	89500	89000	86100	84200	85200	89700	88200	87500	85300
26	85600	87300	88400	89500	88900	86000	84300	85200	89700	88200	87500	85100
27	85600	87500	88400	89500	88800	86000	84500	85500	89600	88200	87500	85000
28	85600	87600	88300	89500	88700	85900	84700	85800	89500	88300	87600	84900
29	85700	87700	88300	89500	---	85800	85000	86600	89500	88300	87600	84900
30	85800	87900	88200	89500	---	85800	84900	86800	89700	88300	87600	84900
31	85700	---	88300	89300	---	85600	---	87300	---	88300	87700	---
MAX	85800	87900	88400	---	89700	88500	85500	87300	90000	89400	88400	87700
MIN	85100	85800	87900	---	88700	85600	84200	85000	87300	88100	87500	84900
†	15.99	16.32	16.38	16.54	16.44	15.98	15.86	16.23	16.59	16.38	16.29	15.86
‡	400	2200	400	1000	-600	-3100	-700	2400	2400	-1400	-600	-2800

CAL YR 1998 MAX 91200 MIN 85000 ‡ -1600
WTR YR 1999 ‡ -400

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

HENRYS FORK BASIN

13039500 HENRYS FORK NEAR LAKE, ID

LOCATION.--Lat 44°35'42", long 111°20'57", in NE¼SW¼ sec.26, T.15 N., R.43 E., Fremont County, Big Springs quad., Hydrologic Unit 17040202, on left bank 0.2 mi downstream from Henrys Lake Dam, 5.4 mi south of former Lake Post Office, and at mile 117.1.

DRAINAGE AREA.--99.3 mi^2, including 6.2 mi^2 of Dry Creek basin.

PERIOD OF RECORD.--May 1920 to current year (prior to October 1929, irrigation seasons only). Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,437.06 ft above sea level, U.S. Army Corps of Engineers bench mark (levels by Bureau of Reclamation). May 1920 to September 1922, nonrecording gage at site 3 mi downstream and below mouth of Dry Creek at different datum. September 1922 to July 30, 1978, recording gage at site 125 ft upstream at different datum. July 31, 1978 to July 27, 1989 at present site at datum 4.0 ft higher.

REMARKS.--Records good. Station equipment includes satellite telemetry. Flow regulated by Henrys Lake (see sta 13039000). Since 1923, floodwaters of Dry (Tyghee) Creek have been diverted at times into Henrys Lake (some diverted during 1980).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 907 ft^3/s June 13, 1926, gage height, 5.40 ft, site and datum then in use; maximum gage height, 6.21 ft, Aug. 24, 1992; no flow for part of each day Sept. 17, 18, 1952, Sept. 5, 7-30, Oct. 1, 2, 1966, Sept. 18 to Oct. 6, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Outflow from Henrys Lake was reported to have ceased entirely in late summer of 1889.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 255 ft^3/s June 27; minimum daily, 17 ft^3/s Aug. 1.

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	31	41	40	69	94	91	108	137	216	17	88
2	44	31	41	40	70	94	91	112	148	216	46	85
3	45	35	41	39	69	94	92	113	148	216	71	84
4	45	43	41	39	70	94	92	112	148	216	72	80
5	44	44	e40	39	69	94	92	112	149	216	79	77
6	43	44	e40	39	70	94	92	111	157	208	86	77
7	42	43	e40	39	71	94	93	111	165	180	84	77
8	41	43	e40	39	69	94	92	112	187	153	84	75
9	40	42	e40	39	70	94	93	112	235	112	83	74
10	40	41	e40	39	70	94	97	111	234	112	82	75
11	40	e40	41	40	70	94	104	111	234	112	82	77
12	38	e40	42	40	70	94	104	111	232	97	83	74
13	38	e40	42	40	69	94	104	111	231	82	86	72
14	39	e40	41	40	79	94	104	121	230	81	85	72
15	39	41	41	40	96	93	104	130	229	81	84	72
16	39	39	41	40	96	92	104	129	213	81	81	71
17	38	40	41	46	96	92	104	129	177	71	80	71
18	38	41	e40	53	96	92	104	130	177	55	79	72
19	38	42	e38	53	96	92	104	130	177	54	79	72
20	38	42	e38	52	95	92	104	130	177	54	65	68
21	39	43	e36	52	95	92	104	130	185	55	50	67
22	38	42	e38	54	96	92	104	129	225	48	48	67
23	38	42	e38	54	96	92	104	129	253	42	48	67
24	39	43	e40	54	95	92	104	129	253	43	48	67
25	38	42	41	54	95	92	104	129	254	43	47	66
26	38	44	40	54	95	92	103	128	254	43	47	65
27	38	40	40	54	96	92	104	128	255	42	47	64
28	39	40	39	54	95	92	103	129	254	42	49	60
29	39	40	39	54	---	92	103	131	243	43	48	49
30	39	40	39	61	---	92	103	132	217	43	48	49
31	34	---	39	69	---	91	---	131	---	26	65	---
TOTAL	1232	1218	1238	1450	2323	2880	3001	3771	6178	3083	2053	2134
MEAN	39.7	40.6	39.9	46.8	83.0	92.9	100	122	206	99.5	66.2	71.1
MAX	45	44	42	69	96	94	104	132	255	216	86	88
MIN	34	31	36	39	69	91	91	108	137	26	17	49
AC-FT	2440	2420	2460	2880	4610	5710	5950	7480	12250	6120	4070	4230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1999, BY WATER YEAR (WY)

MEAN	22.1	18.0	18.5	20.0	23.8	27.1	37.1	63.7	99.7	147	141	51.8
MAX	97.4	88.5	102	83.8	121	139	170	388	267	530	492	154
(WY)	1972	1984	1984	1984	1997	1997	1969	1922	1947	1926	1929	1948
MIN	.19	.32	.36	.38	.36	.72	1.00	.90	2.60	19.3	14.4	3.13
(WY)	1978	1989	1989	1989	1989	1989	1938	1989	1935	1979	1989	1966

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1920 - 1999	
ANNUAL TOTAL	29396		30561			
ANNUAL MEAN	80.5		83.7		54.4	
HIGHEST ANNUAL MEAN					113	1984
LOWEST ANNUAL MEAN					4.11	1989
HIGHEST DAILY MEAN	290	Jun 28	255	Jun 27	762	Jul 29 1929
LOWEST DAILY MEAN	31	Nov 1	17	Aug 1	.00	Sep 5 1966
ANNUAL SEVEN-DAY MINIMUM	35	Oct 28	35	Oct 28	.00	Sep 7 1966
ANNUAL RUNOFF (AC-FT)	58310		60620		39440	
10 PERCENT EXCEEDS	173		148		161	
50 PERCENT EXCEEDS	60		72		27	
90 PERCENT EXCEEDS	40		39		2.8	

e Estimated

HENRYS FORK BASIN

13040500 BIG SPRINGS AT BIG SPRINGS, ID

LOCATION.--Lat 44°29'58", long 111°15'17", in SW¼NW¼NW¼ sec.34, T.14 N., R.44 E., Fremont County, Island Park quad., Hydrologic Unit 17040202, at Big Springs Loop Road bridge, 200 yds downstream from the head of the spring, and 4.2 mi west of Macks Inn.

PERIOD OF RECORD.--June 1924 to June 1925, 1968 to 1997 (discharge measurements only, some years), April 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,390 ft above sea level, from topographic map. June 1924 to June 1925, staff gage at site approximately 0.25 mi downstream.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 23 ft^3/s May 20-22, 1998; minimum daily, 166 ft^3/s June 18, 1924.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 213 ft^3/s July 28-31, Aug. 1, 3, 6; minimum daily, 189 ft^3/s Apr. 24-30, May 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	209	206	195	195	194	198	196	190	e200	e206	213	206
2	210	207	194	194	195	e200	195	190	e200	e208	212	206
3	210	207	194	194	193	e200	195	190	e200	e208	213	206
4	210	204	194	196	193	200	196	190	e200	e208	212	206
5	210	205	193	195	193	199	198	189	e200	e208	212	206
6	209	206	192	195	196	199	198	e190	e200	e208	213	206
7	209	206	192	196	197	201	195	e190	e200	e208	212	206
8	209	206	193	195	194	200	195	e190	e202	e208	212	206
9	210	203	192	195	197	200	197	e190	e202	e208	212	206
10	210	202	192	195	196	198	196	e190	e202	e210	211	206
11	209	202	193	194	193	197	195	e192	e202	e210	211	205
12	209	202	194	194	e194	197	194	e192	e202	e210	212	205
13	209	202	194	194	e196	197	194	e192	e202	e210	211	205
14	210	202	194	194	196	196	193	e192	e202	e210	211	206
15	209	202	195	195	197	197	193	e192	e202	e210	210	206
16	212	202	196	195	197	196	192	e194	e204	211	209	206
17	209	204	197	194	197	196	191	e194	e204	211	209	206
18	208	204	197	194	197	196	191	e194	e204	211	208	206
19	208	202	197	194	198	196	191	e194	e204	211	207	206
20	208	203	197	195	195	196	191	e194	e204	211	207	206
21	208	206	196	e194	e196	196	191	e196	e204	211	206	206
22	207	204	197	e194	e196	196	191	e196	e204	212	205	206
23	207	203	197	e194	e196	196	190	e196	e204	212	205	206
24	207	203	198	e194	e196	196	189	e196	e206	212	205	206
25	206	201	199	e194	197	196	189	e196	e206	212	205	206
26	206	199	198	e194	198	197	189	e198	e206	212	206	206
27	207	199	197	e194	196	197	189	e198	e206	212	206	206
28	207	200	199	e192	198	196	189	e198	e206	213	206	206
29	208	199	197	191	---	195	189	e198	e206	212	206	206
30	208	198	196	192	---	195	189	e198	e206	213	206	206
31	206	---	196	193	---	195	---	e198	---	213	206	---
TOTAL	6464	6089	6055	6019	5481	6114	5781	5997	6090	6519	6479	6177
MEAN	209	203	195	194	196	197	193	193	203	210	209	206
MAX	212	207	199	196	198	201	198	198	206	213	213	206
MIN	206	198	192	191	193	195	189	189	200	206	205	205
AC-FT	12820	12080	12010	11940	10870	12130	11470	11900	12080	12930	12850	12250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1999, BY WATER YEAR (WY)

MEAN	189	186	180	181	184	184	181	198	209	194	193	194
MAX	209	203	195	194	196	197	193	228	215	210	209	208
(WY)	1999	1999	1999	1999	1999	1999	1999	1998	1998	1999	1999	1998
MIN	169	169	165	168	172	170	170	172	203	168	168	167
(WY)	1925	1925	1925	1925	1925	1925	1925	1925	1999	1924	1924	1924

SUMMARY STATISTICS	FOR 1999 WATER YEAR		WATER YEARS 1924 - 1999	
ANNUAL TOTAL	73265			
ANNUAL MEAN	201		201	
HIGHEST ANNUAL MEAN			201	1999
LOWEST ANNUAL MEAN			201	1999
HIGHEST DAILY MEAN	213	Jul 28	235	May 20 1998
LOWEST DAILY MEAN	189	Apr 24	164	Dec 18 1924
ANNUAL SEVEN-DAY MINIMUM	189	Apr 24	164	Dec 18 1924
ANNUAL RUNOFF (AC-FT)	145300		145400	
10 PERCENT EXCEEDS	210		210	
50 PERCENT EXCEEDS	200		195	
90 PERCENT EXCEEDS	192		168	

e Estimated

HENRYS FORK BASIN

13041010 HENRYS FORK BELOW COFFEE POT RAPIDS NEAR MACKS INN, ID

LOCATION.--Lat 44°29'00", long 111°23'37", in NE¼SW¼NW¼ sec.4, T.13 N., R.43 E., Fremont County, Island Park Dam quad., Hydrologic Unit 17040202, on foot bridge 11.45 mi upstream from the McCrea Bridge, 3 mi southwest of Mack's Inn, and at mile 100.9.

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,310 ft above sea level, from topographic map.

REMARKS.--Records good except for discharges Feb. 26 to Mar. 2, Apr. 13-21 and estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow is partly regulated by Henrys Lake Dam 16.4 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft^3/s May 9, 1997, gage height, 5.20 ft; minimum daily, 300 ft^3/s Feb. 27, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,840 ft^3/s May 23; maximum gage height, 5.37 ft, Dec. 21 (backwater from ice); minimum daily, 360 ft^3/s Dec. 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	437	425	448	427	440	463	450	725	1050	755	452	511
2	434	427	442	423	437	450	440	772	964	744	449	514
3	436	432	443	418	433	462	453	832	1050	736	493	512
4	433	433	452	424	440	466	450	772	1080	728	504	510
5	431	437	436	426	441	472	451	711	946	716	510	505
6	430	442	431	424	440	450	455	684	957	713	544	503
7	430	440	436	426	424	e450	450	712	1080	693	525	497
8	428	443	434	424	373	e450	454	833	1020	669	522	497
9	427	440	432	421	423	453	457	949	984	612	517	495
10	427	432	424	423	439	450	454	932	965	588	512	496
11	427	431	434	424	418	446	448	828	926	579	515	498
12	427	434	436	424	421	445	457	835	907	572	551	497
13	425	431	438	424	429	447	463	937	888	551	585	493
14	425	432	434	422	437	451	463	850	885	544	543	493
15	424	433	435	430	442	458	457	835	897	542	524	497
16	427	435	436	417	457	461	496	791	896	535	516	494
17	427	437	435	414	465	454	496	804	898	532	510	491
18	426	449	428	427	457	453	509	886	880	517	509	491
19	424	437	e400	431	461	452	544	1060	862	506	506	495
20	423	432	e380	437	451	450	550	1370	837	503	505	491
21	423	433	e360	435	459	451	558	1690	823	504	490	489
22	424	438	e380	430	458	451	508	1700	827	502	482	488
23	435	439	e400	435	464	449	496	1840	852	490	473	494
24	462	458	402	407	463	451	492	1510	853	483	466	498
25	443	449	408	428	473	457	515	1200	842	483	463	496
26	434	445	412	432	476	466	555	1010	828	479	460	496
27	430	441	424	430	476	465	581	912	815	475	461	496
28	430	446	428	424	470	453	633	862	809	474	470	495
29	438	462	426	421	---	456	645	954	801	475	477	488
30	440	453	430	419	---	456	636	1180	784	489	475	485
31	433	---	426	426	---	449	---	1270	---	480	497	---
TOTAL	13360	13166	13130	13173	12467	14087	15016	31246	27206	17669	15506	14905
MEAN	431	439	424	425	445	454	501	1008	907	570	500	497
MAX	462	462	452	437	476	472	645	1840	1080	755	585	514
MIN	423	425	360	407	373	445	440	684	784	474	449	485
AC-FT	26500	26110	26040	26130	24730	27940	29780	61980	53960	35050	30760	29560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

MEAN	477	468	456	462	455	444	533	1038	814	567	497	489
MAX	544	510	494	507	512	523	619	1162	907	605	547	547
(WY)	1998	1998	1998	1998	1997	1997	1997	1997	1999	1997	1997	1997
MIN	431	439	424	425	376	331	485	964	747	495	469	454
(WY)	1999	1999	1999	1999	1996	1996	1996	1998	1996	1996	1996	1998

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1996 - 1999	
ANNUAL TOTAL	198765		200931			
ANNUAL MEAN	545		550		559	
HIGHEST ANNUAL MEAN					600	1997
LOWEST ANNUAL MEAN					519	1996
HIGHEST DAILY MEAN	1520	May 4	1840	May 23	1840	May 23 1999
LOWEST DAILY MEAN	360	Dec 21	360	Dec 21	300	Feb 27 1996
ANNUAL SEVEN-DAY MINIMUM	390	Dec 19	390	Dec 19	317	Feb 25 1996
ANNUAL RUNOFF (AC-FT)	394300		398500		405000	
10 PERCENT EXCEEDS	820		857		840	
50 PERCENT EXCEEDS	478		461		493	
90 PERCENT EXCEEDS	430		424		427	

e Estimated



Construction work on Jackson Lake Dam near Jackson, Wyoming. (Oct. 1914)

HENRYS FORK BASIN

13042500 HENRYS FORK NEAR ISLAND PARK, ID

LOCATION.--Lat 44°24'59", long 111°23'41", in SW¼SW¼ sec.28, T.13 N., R.43 E., Fremont County, Targhee National Forest, Hydrologic Unit 17040202, on left bank 0.2 mi downstream from Island Park Dam, 0.2 mi upstream from Buffalo River, 1 mi southwest of Island Park Post Office, and at mile 91.5.

DRAINAGE AREA.--481 mi^2. Mean elevation, 7,080 ft.

PERIOD OF RECORD.--January 1933 to current year.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,225 ft above sea level, from river-profile map. Prior to May 15, 1935, non-recording gage at site about 0.8 mi upstream at different datum. May 15 to Nov. 30, 1935, water-stage recorder at site 1,000 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Henrys Lake (see sta 13039000) and Island Park Reservoir. Diversions above station for irrigation of about 15,500 acres (1966 determination), a considerable part of which consists of partly subirrigated meadows.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,030 ft^3/s May 23, 1984, gage height, 6.06 ft; minimum daily, 1.0 ft^3/s Nov. 16 to Dec. 7, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,430 ft^3/s June 9, gage height, 5.80 ft; minimum daily, 594 ft^3/s Dec. 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	650	695	775	595	749	728	762	716	2280	877	1020	721
2	651	680	774	608	746	710	750	718	2220	966	1030	722
3	657	698	759	614	745	723	722	718	2240	1040	1030	721
4	656	708	745	619	742	739	718	836	2260	1030	977	731
5	654	717	743	639	744	735	740	1100	2240	995	895	739
6	656	719	745	628	743	725	753	1290	2270	991	865	743
7	651	719	741	622	748	735	752	1370	2310	989	863	733
8	638	719	742	624	748	737	736	1370	2360	959	862	733
9	622	747	742	615	745	742	730	1360	2360	954	867	735
10	605	766	739	624	750	741	734	1370	2260	950	863	739
11	616	766	705	617	738	731	741	1430	2200	935	872	745
12	619	767	681	623	736	725	741	1510	2110	945	879	754
13	620	765	683	626	724	721	739	1520	2080	935	881	747
14	623	801	683	610	734	724	731	1520	2060	900	882	736
15	625	793	656	610	736	722	734	1510	2020	809	881	737
16	624	774	636	612	755	726	736	1520	1970	765	827	751
17	631	763	635	609	755	751	736	1510	1950	721	735	738
18	625	761	636	612	752	763	735	1510	1840	740	705	749
19	623	756	629	615	746	764	725	1520	1780	717	708	748
20	631	761	634	621	738	758	705	1520	1780	692	705	766
21	624	758	637	647	723	759	710	1530	1700	703	704	752
22	624	751	614	690	726	761	712	1530	1560	787	701	749
23	629	748	608	716	722	764	710	1530	1450	900	714	749
24	635	748	618	707	719	764	709	1620	1300	896	702	746
25	644	810	604	695	719	759	711	1850	1250	883	702	749
26	650	832	619	697	759	763	710	1920	1240	895	710	744
27	652	819	623	723	771	763	711	1920	1240	908	684	725
28	667	795	619	697	771	759	711	1830	1160	925	673	712
29	700	795	606	728	---	762	712	1730	967	979	686	695
30	704	786	595	742	---	762	713	1850	853	1040	692	683
31	695	---	594	757	---	762	---	2160	---	1020	707	---
TOTAL	19901	22717	20820	20142	20784	23078	21829	45388	55310	27846	25022	22092
MEAN	642	757	672	650	742	744	728	1464	1844	898	807	736
MAX	704	832	775	757	771	764	762	2160	2360	1040	1030	766
MIN	605	680	594	595	719	710	705	716	853	692	673	683
AC-FT	39470	45060	41300	39950	41230	45780	43300	90030	109700	55230	49630	43820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1999, BY WATER YEAR (WY)

MEAN	436	323	284	267	305	336	499	1024	1006	1143	1122	736
MAX	895	862	672	691	814	862	924	1974	2132	2070	2183	1368
(WY)	1973	1998	1999	1998	1997	1997	1974	1997	1984	1984	1983	1945
MIN	8.14	2.03	1.90	5.74	7.79	9.26	37.2	380	438	485	349	312
(WY)	1980	1980	1939	1939	1939	1939	1941	1934	1934	1934	1934	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1933 - 1999	
ANNUAL TOTAL	318821		324929			
ANNUAL MEAN	873		890		628	
HIGHEST ANNUAL MEAN					1045	1984
LOWEST ANNUAL MEAN					398	1941
HIGHEST DAILY MEAN	2060	May 16	2360	Jun 8	2990	May 22 1984
LOWEST DAILY MEAN	485	Apr 21	594	Dec 31	1.0	Nov 16 1938
ANNUAL SEVEN-DAY MINIMUM	487	Apr 18	604	Dec 28	1.0	Nov 16 1938
ANNUAL RUNOFF (AC-FT)	632400		644500		454800	
10 PERCENT EXCEEDS	1520		1520		1300	
50 PERCENT EXCEEDS	710		742		537	
90 PERCENT EXCEEDS	571		624		14	

HENRYS FORK BASIN

13046000 HENRYS FORK NEAR ASHTON, ID

LOCATION.--Lat 44°04'12", long 111°30'34", in NW¼NE¼NW¼ sec.33, T.9 N., R.42 E., Fremont County, Hydrologic Unit 17040203, on left bank 0.8 mi downstream from powerplant, 3.1 mi west of Ashton, and at mile 44.2.

DRAINAGE AREA.--1,040 mi^2. Mean elevation, 6,710 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1890 to June 1891, August 1902 to June 1909, April 1920 to current year (seasonal records only 1920-26). Monthly discharge only for some periods, published in WSP 1317. Published as "Henrys Fork in canyon, above Fall River", 1890-91, and as "North Fork of Snake River near Ora", 1902-09. Published as station number 13046023 from 1981-92.

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1347: 1890-91. WDR ID-95-1: 1993 (M).

GAGE.--Water-stage recorder. Elevation of gage is 5,090 ft above sea level, from topographic map. April 1890 to June 1891, nonrecording gage at site 5.5 mi downstream at different datum. August 1902 to Apr. 15, 1921, nonrecording gage, and Apr. 16, 1921 to May 3, 1930, water-stage recorder at site 1.0 mi downstream at different datum. May 3, 1930 to Sept. 30, 1980, water-stage recorder at site 0.5 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Diurnal fluctuation caused by powerplant above station. Flow regulated by Henrys Lake (see sta 13039000), Island Park Reservoir, and by Ashton Dam, 0.8 miles upstream. Diversions above station for irrigation of about 24,500 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1891-1922), 6,000 ft^3/s May 8, 1890; minimum daily, 910 ft^3/s Feb. 4, 1906. Maximum discharge since regulation (1923-98), 8,140 ft^3/s May 15, 1984, gage height, 6.50 ft; minimum, 53 ft^3/s Sept. 20, 1960, gage height, 5.45 ft, site and datum then in use; minimum daily, 171 ft^3/s Oct. 18, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,390 ft^3/s June 3, gage height, 5.65 ft; minimum daily, 987 ft^3/s Dec. 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	1780	1630	1650	1400	1550	1480	1480	4010	4660	2020	2000	1700
2	1780	1630	1620	1370	1480	1450	1460	3910	4460	2030	2090	1640
3	1780	1620	1630	1330	1520	1460	1550	3970	4890	2210	2090	1660
4	1780	1620	1690	1390	1520	1510	1530	3430	4840	2210	2010	1650
5	1780	1630	1630	1440	1520	1460	1480	3140	4480	2150	2030	1630
6	1770	1650	1640	1370	1470	1440	1550	3110	4430	2080	1870	1630
7	1710	1660	1620	1350	1580	1450	1500	3350	4580	2100	1930	1600
8	1730	1650	1590	1420	1530	1490	1590	3810	4400	2120	1870	1630
9	1720	1660	1550	1340	1520	1500	1590	4010	4250	2050	1880	1610
10	1720	1670	1410	1390	1610	1500	1610	3660	4060	2010	1920	1630
11	1720	1660	1590	1390	1400	1430	1490	3470	3870	2030	1910	1620
12	1690	1630	1520	1380	1530	1450	1560	3460	3700	2040	2020	1600
13	1680	1640	1480	1370	1470	1450	1550	3810	3610	2010	1910	1630
14	1680	1660	1470	1390	1540	1450	1670	3770	3560	2020	1920	1580
15	1680	1660	1440	1420	1520	1460	1660	3580	3490	1900	1920	1620
16	1680	1640	1420	1460	1500	1480	1660	3570	3430	1850	1910	1610
17	1680	1650	1380	1380	1500	1470	1650	3410	3380	1790	1800	1610
18	1670	1700	1380	1430	1510	1470	1810	3330	3390	1810	1730	1620
19	1670	1600	987	1400	1510	1470	1930	3460	3240	1750	1700	1610
20	1660	1590	1260	1470	1490	1470	2010	3690	3190	1780	1690	1590
21	1660	1630	1220	1470	1450	1500	2240	3880	3140	1740	1710	1590
22	1640	1750	1200	1400	1500	1520	2000	3980	3030	1760	1710	1610
23	1680	1730	1290	1550	1510	1520	1890	4120	2820	1920	1710	1620
24	1710	1690	1480	1510	1520	1580	1880	4070	2700	1940	1670	1590
25	1700	1670	1530	1520	1510	1550	2100	4170	2560	1990	1720	1580
26	1700	1660	1520	1470	1510	1640	2200	4440	2510	1890	1640	1600
27	1640	1660	1510	1470	1510	1590	2330	4260	2440	1950	1680	1600
28	1620	1650	1520	1500	1500	1570	2680	4120	2420	1950	1710	1590
29	1640	1720	1510	1420	---	1520	2940	4060	2270	1900	1630	1570
30	1640	1700	1480	1460	---	1500	3140	4270	2040	2130	1660	1560
31	1630	---	1400	1520	---	1590	---	4750	---	2160	1750	---
TOTAL	52620	49710	45617	44180	42280	46420	55730	118070	105840	61290	56790	48380
MEAN	1697	1657	1472	1425	1510	1497	1858	3809	3528	1977	1832	1613
MAX	1780	1750	1690	1550	1610	1640	3140	4750	4890	2210	2090	1700
MIN	1620	1590	987	1330	1400	1430	1460	3110	2040	1740	1630	1560
AC-FT	104400	98600	90480	87630	83860	92070	110500	234200	209900	121600	112600	95960

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 1922, BY WATER YEAR (WY) (UNREGULATED)

MEAN	1209	1172	1135	1121	1106	1089	1548	2743	2154	1425	1243	1195
MAX	1321	1273	1270	1270	1270	1270	2028	4167	2697	1618	1434	1351
(WY)	1905	1905	1891	1891	1891	1891	1907	1904	1909	1907	1922	1921
MIN	1039	990	990	990	979	938	1172	1663	1345	1085	1034	995
(WY)	1906	1906	1906	1906	1906	1906	1920	1905	1905	1905	1905	1905

SUMMARY STATISTICS	[a] WATER YEARS 1891 - 1922	
ANNUAL MEAN	1395	
HIGHEST ANNUAL MEAN	1600	1904
LOWEST ANNUAL MEAN	1223	1905
HIGHEST DAILY MEAN	5370	May 20 1904
LOWEST DAILY MEAN	910	Feb 4 1906
ANNUAL SEVEN-DAY MINIMUM	910	Mar 5 1906
ANNUAL RUNOFF (AC-FT)	1010000	
10 PERCENT EXCEEDS	2400	
50 PERCENT EXCEEDS	1260	
90 PERCENT EXCEEDS	990	

13046000 HENRYS FORK NEAR ASHTON, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1999, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1225	1111	1044	1018	1053	1105	1619	2671	2114	1927	1892	1518
MAX	1830	2067	1704	1758	1760	1910	2768	5256	4511	3223	3212	2250
(WY)	1998	1972	1998	1997	1997	1997	1997	1997	1984	1984	1984	1945
MIN	753	633	630	624	624	648	901	966	1032	1019	898	842
(WY)	1967	1959	1941	1942	1939	1942	1967	1934	1934	1934	1934	1934

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		[b] WATER YEARS 1923 - 1999	
ANNUAL TOTAL	759097		726927			
ANNUAL MEAN	2080		1992		1537	
HIGHEST ANNUAL MEAN					2361	1984
LOWEST ANNUAL MEAN					996	1934
HIGHEST DAILY MEAN	4700	May 5	4890	Jun 3	7670	May 15 1984
LOWEST DAILY MEAN	987	Dec 19	987	Dec 19	171	Oct 18 1961
ANNUAL SEVEN-DAY MINIMUM	1250	Dec 17	1250	Dec 17	452	Nov 23 1958
ANNUAL RUNOFF (AC-FT)	1506000		1442000		1114000	
10 PERCENT EXCEEDS	3210		3520		2420	
50 PERCENT EXCEEDS	1730		1650		1360	
90 PERCENT EXCEEDS	1600		1450		799	

a Unregulated; summary statistics include April to September 1890.
b Regulated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1994 to October 1996, September 1999.

COLLECTION METHODS.--Electrofishing; boat (13A).

LENGTH OF REACH.--1000 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.27 hours.

ANOMALY CODES.--AA-none; AL-anchor worms; BL-black spot; CL-leeches; DE-deformities; ER-eroded fins; IC-ich; LE-lesions; NE-blind; PA-other parasites; PE-popeye; TU-tumors.

HABITAT QUALITY INDEX.--NA.

BIOLOGICAL DATA, SEPTEMBER 1999
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	SEP 22								
Cyprinidae (Carps and minnows)									
Rhynichthys osculus									
(Speckled dace)		2	1.6	71-73	6	NATIVE	INVERTIVORE	COOL	2-AA
Rhinichthys cataractae									
(Longnose dace)		1	0.8	103	14	NATIVE	INVERTIVORE	COOL	1-AA
Cottidae (Sculpins)									
Cottis bairdi									
(Mottled Sculpin)		11	9.1	37-88	1-12	NATIVE	INVERTIVORE	COOL	11-AA
Cottis beldingi									
(Paiute Sculpin)		29	24	33-86	1-13	NATIVE	INVERTIVORE	COLD	29-AA
Salmonidae (Trouts)									
Oncorhynchus mykiss									
(Rainbow trout)		37	30.6	66-460	4-1071	INTORDUCED	INVERTIVORE	COLD	37-AA
Prosopium williamsoni									
(Mountain whitefish)		32	26.4	132-450	24-1140	NATIVE	INVERTIVORE	COLD	32-AA
Salmo trutta									
(Brown trout)		1	0.8	480	1474	INTRODUCED	INVERTIVORE	COLD	1-AA
Rainbow X Cutthroat trout		8	6.6	158-435	70-886	INTRODUCED	INVERTIVORE	COLD	8-AA

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 8
TOTAL INDIVIDUALS 121

HENRYS FORK BASIN

13046680 BOUNDARY CREEK NEAR BECHLER RANGER STATION, WY

LOCATION.--Lat 44°11'09", long 111°00'19", T.49 N., R.118 W., Teton County, Yellowstone National Park, Hydrologic Unit 17040203, on right bank 0.4 mi upstream from confluence with the Bechler River, 3.8 mi north of the Bechler Ranger Station, and 28.0 mi northeast of Ashton, Idaho.

DRAINAGE AREA.--86.9 mi^2.

PERIOD OF RECORD.--August 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,360 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges in December, July and August, which are fair, and in May and June, which are poor. No diversion or regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 810 ft^3/s June 2, 1986; maximum gage height, 5.68 ft, May 11, 12, 1997, (backwater from Bechler River); minimum daily, 53 ft^3/s Feb. 4-6, 13-18, 21-24, Mar. 5, Apr. 5, 1989; minimum discharge, 52 ft^3/s Mar. 12, 1993, result of discharge measurement.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 550 ft^3/s May 31; minimum daily, 74 ft^3/s Mar. 2, 5-6, 8, 11-13.

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	100	95	97	82	78	76	78	233	308	252	e100	99
2	102	95	96	81	79	74	77	237	308	244	e100	102
3	102	96	96	81	79	75	77	241	e380	246	e100	101
4	101	95	98	81	77	75	77	202	e340	263	e100	99
5	100	96	e95	82	77	74	78	170	301	276	e100	98
6	100	97	e95	82	78	74	79	154	307	e240	e100	97
7	99	96	e90	82	82	75	78	165	314	e220	e100	96
8	99	99	e90	80	78	74	81	201	308	e200	e100	96
9	98	97	e90	82	79	76	80	226	298	e180	e100	96
10	98	95	e90	81	79	75	79	220	275	e170	e100	96
11	98	95	e90	81	76	74	78	203	264	e160	e100	95
12	98	94	89	80	76	74	79	210	262	e150	e110	95
13	97	94	89	80	76	74	82	218	265	e140	e110	95
14	97	94	89	79	77	75	83	200	270	136	e110	94
15	97	94	88	84	78	76	83	187	288	131	e100	94
16	98	94	87	84	76	75	83	159	305	126	e100	94
17	97	96	88	80	78	75	87	148	321	125	e100	94
18	97	98	88	81	76	76	94	161	e420	124	e100	94
19	96	95	87	81	77	78	100	194	e400	119	e100	94
20	96	94	86	83	75	80	108	e320	e380	117	e100	93
21	95	99	e85	81	77	81	105	e380	e360	115	e100	93
22	96	106	e85	79	76	80	96	e420	e380	112	e100	93
23	104	98	e85	85	79	79	94	e480	e380	111	e100	92
24	104	100	84	80	78	81	95	e500	e360	e110	e100	93
25	99	96	85	78	76	84	103	e520	e360	e110	e100	92
26	97	96	85	80	78	86	110	e500	e380	e110	e100	92
27	96	95	84	78	75	83	121	e520	314	e100	98	93
28	96	98	90	78	75	79	140	e500	271	e100	101	92
29	97	102	84	78	---	79	163	e500	246	e100	99	92
30	96	98	83	78	---	79	198	e520	247	e110	100	92
31	95	---	83	78	---	78	---	e550	---	e100	107	---
TOTAL	3045	2897	2751	2500	2165	2394	2886	9439	9612	4797	3135	2846
MEAN	98.2	96.6	88.7	80.6	77.3	77.2	96.2	304	320	155	101	94.9
MAX	104	106	98	85	82	86	198	550	420	276	110	102
MIN	95	94	83	78	75	74	77	148	246	100	98	92
AC-FT	6040	5750	5460	4960	4290	4750	5720	18720	19070	9510	6220	5650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1999, BY WATER YEAR (WY)

MEAN	82.1	81.9	78.0	73.8	69.9	71.5	123	288	247	108	86.9	83.1
MAX	120	108	101	100	88.5	91.3	215	460	566	179	139	129
(WY)	1998	1998	1996	1997	1998	1997	1990	1997	1986	1997	1997	1997
MIN	61.6	61.9	58.8	58.1	53.8	58.0	68.8	150	83.3	68.1	62.2	59.4
(WY)	1993	1993	1993	1993	1989	1993	1991	1990	1987	1988	1988	1988

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1984 - 1999	
ANNUAL TOTAL	51085		48467			
ANNUAL MEAN	140		133		116	
HIGHEST ANNUAL MEAN					169	1997
LOWEST ANNUAL MEAN					84.4	1992
HIGHEST DAILY MEAN	550	Jun 26	550	May 31	810	Jun 2 1986
LOWEST DAILY MEAN	83	Dec 30	74	Mar 2	53	Feb 4 1989
ANNUAL SEVEN-DAY MINIMUM	84	Mar 6	74	Mar 2	53	Feb 12 1989
ANNUAL RUNOFF (AC-FT)	101300		96130		84240	
10 PERCENT EXCEEDS	278		273		237	
50 PERCENT EXCEEDS	99		96		84	
90 PERCENT EXCEEDS	87		78		62	

e Estimated

HENRYS FORK BASIN

13046995 FALLS RIVER ABOVE YELLOWSTONE CANAL NEAR SQUIRREL, ID

LOCATION.--Lat 44°03'44", long 111°09'05", NW¼NW¼SW¼ sec.33, T.9 N., R.45 E., Fremont County, Hydrologic Unit 17040203, Porcupine Lake quad map, on right bank, approximately 475 ft above the diversion of the Yellowstone Canal, about 7 mi northeast of Squirrel.

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

GAGE.--Water-stage recorder. Elevation of gage is 5,780 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Station is above all diversions from Falls River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,940 ft³/s May 30, 1997, gage height, 9.28 ft; minimum daily, 290 ft³/s Nov. 20, 21, 22, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,160 ft³/s May 31; minimum daily, 360 ft³/s Dec. 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	658	582	590	506	e440	446	467	2120	3330	2150	932	806
2	689	585	585	489	e440	e420	e440	2110	3440	2100	920	847
3	689	587	585	e440	e440	433	451	2070	4000	2100	908	825
4	674	576	601	e460	449	e420	454	1690	3810	2180	920	808
5	665	577	e520	496	445	e400	452	1420	3280	2210	911	781
6	663	591	e480	488	452	e380	456	1280	3310	2050	912	765
7	662	581	e520	492	474	425	453	1350	3740	1980	900	759
8	660	595	e540	487	e460	416	467	1560	3560	1890	893	750
9	644	587	e500	488	452	403	475	1620	3280	1740	880	788
10	586	574	e460	486	e460	432	471	1550	2840	1670	873	788
11	587	572	e500	484	e420	424	e460	1400	2760	1630	915	782
12	586	569	e520	480	e420	423	456	1360	2780	1580	953	773
13	586	565	517	481	e420	419	473	1390	2860	1550	924	771
14	586	567	514	474	e420	421	494	1320	3080	1530	900	770
15	585	569	509	491	e460	435	495	1280	3420	1400	878	766
16	595	565	511	488	447	435	496	1160	3560	1320	863	762
17	587	577	511	e460	e460	428	514	1070	3800	1240	854	759
18	584	596	514	481	e440	428	582	1110	3830	1270	842	756
19	577	579	e440	477	455	440	685	1280	3720	1180	841	760
20	575	564	e360	496	447	460	746	1760	3590	1140	839	759
21	570	587	e400	487	445	485	867	2310	3570	1100	838	752
22	575	633	e440	477	e440	485	709	2860	3720	1090	827	700
23	635	591	e460	e480	456	472	650	3410	3430	1060	817	744
24	667	608	e440	e460	464	480	634	3730	3120	1040	810	752
25	622	585	e500	e440	439	504	707	3930	3190	1030	805	756
26	601	574	e540	e480	e440	544	753	3920	3210	995	797	755
27	588	576	e560	e460	e420	542	846	4020	2800	974	796	758
28	588	589	e520	e460	438	e490	1050	3990	2320	963	820	750
29	597	627	e540	e480	---	481	1240	4070	2010	958	810	750
30	592	607	e560	e480	---	481	1580	4100	2050	1010	799	748
31	587	---	e540	e460	---	474	---	4160	---	955	872	---
TOTAL	19060	17535	15777	14808	12443	13926	19023	70400	97410	45085	26849	23040
MEAN	615	584	509	478	444	449	634	2271	3247	1454	866	768
MAX	689	633	601	506	474	544	1580	4160	4000	2210	953	847
MIN	570	564	360	440	420	380	440	1070	2010	955	796	700
AC-FT	37810	34780	31290	29370	24680	27620	37730	139600	193200	89430	53250	45700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1999, BY WATER YEAR (WY)

MEAN	631	583	502	472	426	445	804	2592	2719	1398	838	712
MAX	809	726	573	613	508	530	1058	3715	3982	1884	1252	1025
(WY)	1998	1997	1996	1997	1998	1998	1997	1997	1997	1997	1997	1997
MIN	408	351	359	341	350	386	634	2223	1286	581	409	376
(WY)	1995	1995	1995	1995	1995	1995	1999	1995	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1994 - 1999	
ANNUAL TOTAL	367636		375356			
ANNUAL MEAN	1007		1028		1070	
HIGHEST ANNUAL MEAN					1373	1997
LOWEST ANNUAL MEAN					875	1995
HIGHEST DAILY MEAN	3010	Jun 14	4160	May 31	5390	May 30 1997
LOWEST DAILY MEAN	360	Dec 20	360	Dec 20	290	Nov 20 1994
ANNUAL SEVEN-DAY MINIMUM	434	Dec 19	411	Mar 4	306	Nov 17 1994
ANNUAL RUNOFF (AC-FT)	729200		744500		775100	
10 PERCENT EXCEEDS	2430		2770		2440	
50 PERCENT EXCEEDS	619		601		643	
90 PERCENT EXCEEDS	496		440		385	

e Estimated

HENRYS FORK BASIN

13047500 FALLS RIVER NEAR SQUIRREL, ID

LOCATION.--Lat 44°04'07", long 111°14'25", in NW¼NE¼ sec.34, T.9 N., R.44 E., Fremont County, Hydrologic Unit 17040203, on right bank 0.2 mi upstream from road bridge, 0.5 mi downstream from headgates of Marysville Canal, 4 mi northeast of Squirrel, 10.8 mi upstream from Conant Creek, and at mile 19.8.

DRAINAGE AREA.--326 mi^2. Mean elevation, 7,520 ft.

PERIOD OF RECORD.--August 1902 to June 1909 (gage heights only prior to October 1904), May 1918 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "Fall River at Wilson's Mill, near Marysville" 1902, as "Fall River near Marysville" 1903, as "Fall River at Fremont" 1904-09, and as "Fall River near Squirrel" 1918-59.

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1317: 1908. WSP 1347: 1905.

GAGE.--Water-stage recorder. Elevation of gage is 5,590 ft above sea level, from topographic map. Prior to Jan. 1, 1904, nonrecording gage at site 3 mi upstream at different datum, Jan. 1, 1904 to Nov. 6, 1937, nonrecording gage at site 200 ft upstream at different datum, and Nov. 7, 1937 to Oct. 7, 1948, nonrecording gage at site 100 ft downstream at datum 0.29 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow since October 1939 regulated by Grassy Lake, capacity about 15,200 acre-feet. Diversions above station for irrigation of about 17,000 acres below station and in adjacent basins, and diversions from tributary upstream from station for irrigation of about 500 acres (1966 determination). Diversions to Marysville Canal were increased beginning August 1993 for power generation at Marysville Hydropower plant.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1905-93), 7,060 ft^3/s June 9, 1981, gage height, 5.93 ft; minimum observed, 72 ft^3/s Jan. 17, 1930. Maximum discharge since diversions to Marysville Hydropower plant (1994-98), 5,060 ft^3/s June 5, 1997, gage height, 4.82 ft; minimum, 113 ft^3/s Apr. 15, 1998, gage height, 0.55 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,030 ft^3/s May 31, gage height, 4.23 ft; minimum, 103 ft^3/s Oct. 15, gage height, 0.52 ft.

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	224	232	250	e220	e240	252	249	1670	2850	1440	231	220
2	224	229	251	e240	e240	249	241	1650	2910	1400	239	256
3	219	228	254	e240	e240	249	241	1630	3530	1410	230	236
4	219	228	250	e240	e240	248	243	1240	3310	1510	253	219
5	215	230	253	e240	249	248	245	959	2790	1560	264	218
6	219	232	258	e240	249	253	246	801	2790	1390	272	224
7	222	229	253	247	249	248	246	860	3220	1310	259	226
8	224	234	253	243	247	251	247	1090	3020	1230	251	228
9	227	232	e240	243	249	252	246	1150	2800	1110	232	231
10	227	233	e240	240	244	249	242	1100	2370	1080	223	229
11	224	235	e260	241	e240	248	243	924	2270	1040	274	228
12	219	235	e260	247	e240	248	245	889	2290	950	346	225
13	223	238	269	244	e240	248	248	914	2380	850	309	227
14	223	238	264	243	250	251	258	839	2590	822	282	228
15	226	238	264	251	247	251	254	802	2880	699	251	228
16	224	238	263	246	249	248	272	680	3020	594	234	228
17	221	241	264	244	249	250	262	591	3270	509	214	228
18	222	240	261	247	248	251	244	623	3270	561	208	229
19	221	240	e240	248	247	251	590	779	3130	472	212	232
20	219	240	e200	256	248	251	820	1260	2990	431	211	228
21	220	247	e220	244	248	266	847	1800	2950	391	213	228
22	221	244	e240	243	249	255	406	2360	3080	382	215	226
23	224	245	e240	e240	253	249	237	2860	2780	355	227	232
24	217	245	e240	e240	260	261	237	3260	2420	339	228	230
25	221	243	e240	e240	257	254	269	3520	2430	329	226	227
26	223	247	e240	247	257	243	314	3460	2420	282	225	227
27	226	245	e240	241	254	236	401	3590	2020	251	228	224
28	228	250	e240	243	256	240	606	3580	1620	234	231	223
29	226	247	e240	e240	---	245	817	3630	1430	235	222	222
30	229	249	e240	e240	---	247	1140	3680	1400	301	227	225
31	231	---	e240	e240	---	249	---	3790	---	246	243	---
TOTAL	6908	7152	7667	7518	6939	7741	11156	55981	80230	23713	7480	6832
MEAN	223	238	247	243	248	250	372	1806	2674	765	241	228
MAX	231	250	269	256	260	266	1140	3790	3530	1560	346	256
MIN	215	228	200	220	240	236	237	591	1400	234	208	218
AC-FT	13700	14190	15210	14910	13760	15350	22130	111000	159100	47030	14840	13550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 1993, BY WATER YEAR (WY) (UNREGULATED)

MEAN	474	457	412	372	380	395	664	1760	2085	910	551	498
MAX	737	912	579	537	565	590	1120	3038	3786	2322	867	791
(WY)	1928	1928	1928	1928	1928	1928	1926	1928	1927	1927	1927	1927
MIN	259	276	283	219	287	293	418	1086	589	298	326	315
(WY)	1932	1932	1932	1932	1932	1932	1937	1934	1934	1931	1931	1931

SUMMARY STATISTICS	[a] WATER YEARS 1905 - 1993	
ANNUAL MEAN	781	
HIGHEST ANNUAL MEAN	1144	1931
LOWEST ANNUAL MEAN	475	1931
HIGHEST DAILY MEAN	6440	Jun 27 1927
LOWEST DAILY MEAN	72	Jan 17 1930
ANNUAL SEVEN-DAY MINIMUM	182	Jan 7 1930
ANNUAL RUNOFF (AC-FT)	565500	
10 PERCENT EXCEEDS	1880	
50 PERCENT EXCEEDS	490	
90 PERCENT EXCEEDS	363	

HENRYS FORK BASIN

13047500 FALLS RIVER NEAR SQUIRREL, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	245	244	233	241	236	233	407	2017	2137	728	296	256
MAX	286	273	247	269	248	254	617	3043	3186	1049	539	372
(WY)	1997	1997	1999	1996	1999	1994	1997	1997	1997	1997	1997	1997
MIN	223	225	220	218	220	206	311	1666	632	252	223	219
(WY)	1999	1996	1997	1994	1994	1996	1998	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		[b] WATER YEARS 1994 - 1999	
ANNUAL TOTAL	211808		229317			
ANNUAL MEAN	580		628		607	
HIGHEST ANNUAL MEAN					861	1997
LOWEST ANNUAL MEAN					412	1994
HIGHEST DAILY MEAN	2940	Jun 26	3790	May 31	4660	Jun 5 1997
LOWEST DAILY MEAN	200	Dec 20	200	Dec 20	151	Dec 30 1996
ANNUAL SEVEN-DAY MINIMUM	218	Sep 23	214	Aug 17	173	Jun 19 1994
ANNUAL RUNOFF (AC-FT)	420100		454900		440000	
10 PERCENT EXCEEDS	1870		2120		1790	
50 PERCENT EXCEEDS	236		247		243	
90 PERCENT EXCEEDS	221		224		220	

a Unregulated
b Regulated
e Estimated

HENRYS FORK BASIN

13047600 FALLS RIVER NEAR ASHTON, ID

LOCATION.--Lat 44°03'24", long 111°21'27", in NE¼NE¼NE¼ sec.3, T.8 N., R.43 E., Fremont County, Hydrologic Unit 17040203, Warm River quad, on left bank 500 ft downstream from road bridge, about 3.25 mi northwest of Squirrel.

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

GAGE.--Water-stage recorder. Elevation of gage is 5,390 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,520 ft³/s June 5, 1997, gage height, 9.13 ft; minimum, 164 ft³/s July 26, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,310 ft³/s May 31, gage height, 8.30 ft; minimum daily, 320 ft³/s Dec. 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	601	547	551	e460	e440	426	446	2080	3190	1810	681	665
2	632	554	544	e440	439	419	435	2090	3220	1770	691	702
3	638	557	544	e420	442	413	432	2050	3800	1780	680	704
4	627	543	566	e440	457	414	434	1690	3630	1870	703	675
5	616	544	e480	477	445	413	431	1410	3120	1920	717	651
6	614	563	e440	483	439	397	437	1250	3080	1770	723	634
7	610	553	e460	481	460	414	433	1290	3530	1690	713	622
8	611	571	514	475	449	406	445	1520	3320	1620	706	620
9	608	572	e460	471	432	391	458	1590	3130	1490	689	653
10	537	552	e420	470	e440	417	457	1540	2730	1400	677	658
11	531	549	e460	467	e400	410	429	1380	2630	1350	713	655
12	530	547	e460	470	e400	409	433	1340	2650	1280	801	647
13	527	543	e480	468	e400	406	453	1390	2730	1250	766	644
14	525	544	e480	456	e420	408	476	1330	2920	1220	742	645
15	525	547	491	479	450	421	478	1300	3190	1110	717	642
16	538	542	486	471	435	420	481	1180	3320	1010	700	636
17	528	551	486	467	447	416	509	1080	3550	926	685	632
18	523	574	489	459	435	414	590	1110	3550	976	675	628
19	517	550	e400	460	441	424	739	1240	3420	889	669	621
20	516	536	e320	479	427	444	803	1720	3280	847	666	606
21	512	554	e360	471	424	469	848	2260	3230	811	665	598
22	517	611	e400	457	436	476	692	2790	3360	801	644	552
23	575	568	e420	e440	440	460	662	3170	3080	778	625	580
24	619	577	e400	e420	449	467	640	3550	2730	762	620	585
25	561	552	e460	e400	420	493	710	3810	2740	752	617	585
26	532	536	e500	e420	443	533	752	3750	2730	711	611	581
27	518	533	e520	e440	419	537	826	3880	2360	684	614	588
28	519	543	e480	e440	421	501	1050	3890	1990	671	651	582
29	547	593	e520	e440	---	468	1220	3910	1790	666	648	578
30	544	572	e540	e440	---	468	1560	3960	1760	727	636	575
31	548	---	e500	e420	---	459	---	4100	---	688	710	---
TOTAL	17346	16678	14631	14081	12150	13613	18759	68650	89760	36029	21155	18744
MEAN	560	556	472	454	434	439	625	2215	2992	1162	682	625
MAX	638	611	566	483	460	537	1560	4100	3800	1920	801	704
MIN	512	533	320	400	400	391	429	1080	1760	666	611	552
AC-FT	34410	33080	29020	27930	24100	27000	37210	136200	178000	71460	41960	37180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1999, BY WATER YEAR (WY)

MEAN	607	602	532	513	485	506	823	2508	2606	1137	691	627
MAX	849	725	624	719	631	668	1111	3527	3886	1704	1226	1021
(WY)	1998	1998	1996	1997	1997	1997	1997	1997	1997	1997	1997	1997
MIN	433	395	401	385	396	429	625	2123	1000	285	285	321
(WY)	1995	1995	1995	1995	1995	1994	1999	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1994 - 1999	
ANNUAL TOTAL	359415		341596			
ANNUAL MEAN	985		936		1034	
HIGHEST ANNUAL MEAN					1370	1997
LOWEST ANNUAL MEAN					850	1995
HIGHEST DAILY MEAN	3340	Jun 26	4100	May 31	5250	May 30 1997
LOWEST DAILY MEAN	320	Dec 20	320	Dec 20	194	Jul 22 1994
ANNUAL SEVEN-DAY MINIMUM	394	Dec 19	394	Dec 19	208	Jul 21 1994
ANNUAL RUNOFF (AC-FT)	712900		677600		749400	
10 PERCENT EXCEEDS	2450		2470		2360	
50 PERCENT EXCEEDS	607		571		616	
90 PERCENT EXCEEDS	521		423		403	

e Estimated

HENRYS FORK BASIN

13049500 FALLS RIVER NEAR CHESTER, ID

LOCATION.--Lat 44°01'06", long 111°33'57", in NW¼SE¼ sec.13, T.8 N., R.41 E., Fremont County, Hydrologic Unit 17040203, on right bank, 0.2 mi upstream from highway bridge, at mile 0.8, and 1.5 mi north of Chester.

DRAINAGE AREA.--520 mi^2, approximately. Mean elevation, 6,970 ft.

PERIOD OF RECORD.--April 1920 to current year (irrigation seasons only prior to 1962). Prior to October 1959, published as "Fall River near Chester".

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,051.9 ft above sea level. Prior to Aug. 9, 1920, nonrecording gage at site 200 ft downstream at same datum. Aug. 9, 1920 to Apr. 28, 1921, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow since October 1939 partly regulated by Grassy Lake. Diversions above station for irrigation of about 4,600 acres above station and about 36,000 acres in adjacent basins (1966 determination). Station is below all diversions from Falls River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 7,730 ft^3/s June 9, 1981, gage height, 7.83 ft; maximum gage height, 7.93 ft, Jan. 18, 1966, backwater from ice; minimum recorded, 7.0 ft^3/s June 27, 1961, gage height, 0.74 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,770 ft^3/s May 31, gage height, 5.88 ft; minimum daily, 331 ft^3/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	556	604	679	e540	e560	511	514	2880	3830	1740	349	464
2	582	618	668	e520	e540	504	495	2930	3680	1660	362	478
3	599	640	665	e500	e540	500	494	2930	4190	1650	358	508
4	578	622	694	e520	e540	499	489	2410	4220	1730	374	476
5	565	630	e600	e560	e540	505	487	1960	3680	1790	397	458
6	573	663	e520	e580	e520	486	496	1650	3570	1620	401	444
7	594	656	e540	e580	e540	501	490	1660	4020	1460	407	436
8	593	666	e620	e560	e540	487	516	2020	3810	1400	408	438
9	595	673	e540	e560	e520	479	530	2110	3680	1230	391	471
10	524	650	e520	e560	e540	502	514	2060	3210	1120	384	483
11	508	649	e560	e560	e480	487	485	1810	3060	1050	409	466
12	507	644	e560	e560	e480	489	494	1740	3050	1020	501	462
13	506	639	e580	e560	e480	485	524	1770	3100	985	475	467
14	502	639	e580	e540	e500	486	556	1700	3250	936	463	487
15	504	645	e580	e560	e520	499	549	1630	3470	785	448	476
16	543	640	e580	e560	e500	498	540	1500	3520	617	434	476
17	555	651	577	e540	e520	495	563	1350	3660	534	414	457
18	550	689	580	e560	513	496	661	1370	3720	609	403	446
19	553	664	e500	e560	523	511	857	1520	3600	516	388	448
20	560	645	e420	e580	507	536	952	2160	3480	474	380	437
21	556	655	e460	e560	508	566	1140	2810	3400	445	374	422
22	559	735	e500	e540	513	570	860	3290	3460	425	368	388
23	638	701	e520	e560	524	548	802	3700	3230	404	355	395
24	717	694	e500	e500	523	561	759	3980	2890	388	347	411
25	646	677	e540	e500	501	597	860	4210	2820	386	345	466
26	600	645	e580	e520	529	663	922	4170	2840	362	346	488
27	581	650	e600	e520	497	644	1020	4220	2490	341	344	494
28	577	658	e560	e540	502	586	1370	4220	2090	337	389	496
29	603	722	e600	e520	---	547	1610	4190	1780	331	422	501
30	603	708	e620	e560	---	547	2130	4360	1690	379	409	501
31	604	---	e580	e560	---	537	---	4620	---	355	485	---
TOTAL	17731	19772	17623	16940	14500	16322	22679	82930	98490	27079	12330	13840
MEAN	572	659	568	546	518	527	756	2675	3283	874	398	461
MAX	717	735	694	580	560	663	2130	4620	4220	1790	501	508
MIN	502	604	420	500	480	479	485	1350	1690	331	344	388
AC-FT	35170	39220	34960	33600	28760	32370	44980	164500	195400	53710	24460	27450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1999, BY WATER YEAR (WY)

MEAN	463	542	520	483	469	487	837	2011	1851	474	239	316
MAX	953	992	754	638	611	730	1537	3751	3671	1971	892	767
(WY)	1984	1984	1984	1975	1985	1986	1986	1997	1997	1975	1997	1997
MIN	149	350	356	352	357	365	431	597	255	27.8	28.5	57.3
(WY)	1935	1964	1988	1962	1978	1988	1967	1934	1934	1960	1933	1960

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1920 - 1999	
ANNUAL TOTAL	367429		360236			
ANNUAL MEAN	1007		987		788	
HIGHEST ANNUAL MEAN					1279	1997
LOWEST ANNUAL MEAN					474	1988
HIGHEST DAILY MEAN	3620	Jun 26	4620	May 31	6050	Jun 9 1981
LOWEST DAILY MEAN	317	Jul 23	331	Jul 29	7.0	Jul 27 1931
ANNUAL SEVEN-DAY MINIMUM	328	Jul 22	351	Jul 26	16	Jul 29 1930
ANNUAL RUNOFF (AC-FT)	728800		714500		570700	
10 PERCENT EXCEEDS	2650		2880		2130	
50 PERCENT EXCEEDS	603		560		485	
90 PERCENT EXCEEDS	383		418		140	

e Estimated

HENRYS FORK BASIN

13050500 HENRYS FORK AT ST. ANTHONY, ID

LOCATION.--Lat 43°58'00", long 111°40'20", in NW¼ sec.6, T.7 N., R.41 E., Fremont County, Hydrologic Unit 17040203, on right bank 0.5 mi upstream from bridge on main street of St. Anthony, 6.4 mi downstream from Falls River, and at mile 32.4.

DRAINAGE AREA.--1,770 mi^2, approximately. Mean elevation, 6,670 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1919 to current year (irrigation seasons only prior to 1962).

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1317: 1923(M).

GAGE.--Water-stage recorder. Datum of gage is 4,950.7 ft above sea level. March 1919 to May 7, 1922, nonrecording gages, and May 8, 1922, to Aug. 14, 1931, water-stage recorder, at site 150 ft downstream at datum 0.08 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 21,000 acres below and about 58,000 acres above station of which about 1,100 acres are irrigated by withdrawals from ground water (1966 determination). Flow regulated by power plant about 17 mi above station, and by Henrys Lake (see sta 13039000), Island Park Reservoir, and Grassy Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 13,200 ft^3/s May 16, 1984, gage height, 8.62 ft; minimum recorded, 21 ft^3/s July 9, 1973, gage height, 1.91 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,100 ft^3/s June 3, gage height, 7.38 ft; minimum daily, 985 ft^3/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	1680	2040	2320	e1900	2050	1950	1910	6480	8290	2710	1200	1450
2	1730	2040	2280	e1800	2000	1920	1860	6700	7770	2680	1290	1380
3	1790	2070	2300	e1700	1990	1900	1940	6740	8820	2820	1330	1470
4	1790	2060	2370	e1800	2000	1940	1920	5640	9200	2910	1290	1430
5	1820	2080	2300	1940	2000	1920	1870	4880	8000	2880	1380	1420
6	1850	2120	2190	1870	1950	1880	1950	4440	7770	2560	1230	1370
7	1830	2140	2200	1890	2090	1910	1860	4700	8510	2430	1360	1370
8	1840	2150	2140	1920	2070	1930	2020	5420	8020	2360	1300	1420
9	1870	2160	2110	1850	2040	1940	2050	5720	7810	2170	1250	1410
10	1800	2150	1910	1900	2090	1960	2090	5390	6980	2010	1270	1450
11	1780	2160	2140	1910	1850	1870	1910	4980	6490	1940	1340	1450
12	1770	2150	2180	1900	1930	1870	1990	4860	6240	1920	1660	1400
13	1750	2150	2070	1870	2030	1860	1970	5170	6120	1990	1600	1480
14	1750	2170	2040	1890	2060	1850	2140	5170	6110	1930	1580	1440
15	1760	2190	2010	1990	2050	1870	2110	4850	6240	1700	1560	1460
16	1790	2180	1980	2010	2000	1870	2100	4710	6130	1490	1560	1460
17	1800	2190	1960	1910	2010	1870	2080	4370	6210	1370	1440	1430
18	1800	2310	1980	1980	1990	1870	2350	4260	6280	1440	1360	1380
19	1810	2200	e1200	1930	2000	1860	2630	4440	5980	1300	1250	1390
20	1820	2160	e1400	2060	1980	1890	2830	5110	5790	1300	1230	1390
21	1810	2190	e1400	2030	1920	1960	3270	5850	5550	1210	1250	1360
22	1850	2390	e1300	1930	2000	1980	2810	6570	5520	1060	1240	1340
23	1970	2360	e1600	2090	2020	1970	2620	7120	5140	1070	1230	1360
24	2080	2310	e1900	2030	2030	2060	2510	7450	4610	1100	1180	1350
25	2030	2290	e2200	1970	1980	2080	2800	7840	4390	1150	1290	1400
26	2000	2240	e2200	1980	2000	2220	2960	7990	4380	1040	1270	1420
27	1980	2250	e2200	1990	1960	2220	3090	7850	3960	1060	1150	1460
28	1930	2260	e2200	1970	1960	2110	3750	7760	3520	1070	1210	1570
29	1990	2360	e2100	e1900	---	1990	4250	7620	3110	985	1180	1570
30	2040	2370	e2000	e1900	---	1950	4910	8170	2760	1220	1120	1580
31	2040	---	e1900	e2000	---	2050	---	9260	---	1290	1310	---
TOTAL	57550	65890	62080	59810	56050	60520	74550	187510	185700	54165	40910	42860
MEAN	1856	2196	2003	1929	2002	1952	2485	6049	6190	1747	1320	1429
MAX	2080	2390	2370	2090	2090	2220	4910	9260	9200	2910	1660	1580
MIN	1680	2040	1200	1700	1850	1850	1860	4260	2760	985	1120	1340
AC-FT	114200	130700	123100	118600	111200	120000	147900	371900	368300	107400	81140	85010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 1999, BY WATER YEAR (WY)

MEAN	1369	1591	1589	1599	1612	1551	2104	3757	2944	1363	1251	1278
MAX	2254	2526	2123	2482	2245	2350	3978	8006	6523	3628	3270	2225
(WY)	1998	1972	1984	1997	1997	1997	1986	1997	1984	1984	1984	1971
MIN	668	718	976	936	978	971	833	739	651	598	643	538
(WY)	1967	1935	1978	1963	1964	1980	1924	1934	1934	1931	1936	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1919 - 1999	
ANNUAL TOTAL	948153		947595			
ANNUAL MEAN	2598		2596		1997	
HIGHEST ANNUAL MEAN					3146	1984
LOWEST ANNUAL MEAN					1311	1988
HIGHEST DAILY MEAN	7270	May 6	9260	May 31	12500	May 16 1984
LOWEST DAILY MEAN	993	Jul 23	985	Jul 29	308	Sep 18 1994
ANNUAL SEVEN-DAY MINIMUM	1120	Sep 4	1070	Jul 23	371	Sep 17 1994
ANNUAL RUNOFF (AC-FT)	1881000		1880000		1447000	
10 PERCENT EXCEEDS	5160		5590		3640	
50 PERCENT EXCEEDS	2140		1990		1510	
90 PERCENT EXCEEDS	1400		1340		896	

e Estimated

HENRYS FORK BASIN

13050500 HENRYS FORK AT ST. ANTHONY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1986 to October 1996, September 1999.

COLLECTION METHODS.--Electrofishing; boat (13A).

LENGTH OF REACH.--800 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.25 hours.

ANOMALY CODES.--AA-none; AL-anchor worms; BL-black spot; CL-leeches; DE-deformities; ER-eroded fins; IC-ich; LE-lesions; NE-blind; PA-other parasites; PE-popeye; TU-tumors.

HABITAT QUALITY INDEX.--NA.

BIOLOGICAL DATA, SEPTEMBER 1999
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	SEP 21								
Catostomidae (Suckers)									
Catostomus adrens									
(Utah sucker)		3	1.6	115-555	19-2285	NATIVE	OMNIVORE	COOL	3-AA
Cyprinidae (Carps and minnows)									
Rhynichthys osculus									
(Speckled dace)		8	4.2	64-82	4-5	NATIVE	INVERTIVORE	COOL	8-AA
Rhinichthys cataractae									
(Longnose dace)		3	1.6	60-75	3-6	NATIVE	INVERTIVORE	COOL	3-AA
Richardsonius balteatus									
(Redside shiner)		19	10.2	75-96	5-13	NATIVE	INVERTIVORE	COOL	19-AA
Cottidae (Sculpins)									
Cottis bairdi									
(Mottled Sculpin)		6	3.2	50-87	2-13	NATIVE	INVERTIVORE	COOL	6-AA
Cottis beldingi									
(Paiute Sculpin)		8	4.2	44-93	2-14	NATIVE	INVERTIVORE	COLD	8-AA
Salmonidae (Trouts)									
Oncorhynchus mykiss									
(Rainbow trout)		19	10.2	85-496	8-1314	[a]INTRODUCED	INVERTIVORE	COLD	19-AA
Prosopium williamsoni									
(Mountain whitefish)		69	36.9	178-387	65-598	NATIVE	INVERTIVORE	COLD	69-AA
Salmo trutta									
(Brown trout)		41	21.9	91-535	11-1927	INTRODUCED	INVERTIVORE	COLD	41-AA
Rainbow X Cutthroat trout		11	5.9	130-440	69-1048	NATIVE	INVERTIVORE	COLD	11-AA

a-Rainbow trout are considered native in Idaho downstream of Shoshone Falls and introduced upstream of Shoshone Falls.

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 10
TOTAL INDIVIDUALS 187

13052200 TETON RIVER ABOVE SOUTH LEIGH CREEK, NEAR DRIGGS, ID

LOCATION.--Lat 43°46'54", long 111°12'30", in NW¼NE¼ sec.12, T.5 N., R.44 E., Teton County, Hydrologic Unit 17040204, on right bank 75 ft upstream from county road bridge, 3.5 mi southwest of Tetonia, 6.5 mi northwest of Driggs, and at mile 56.3.

DRAINAGE AREA.--335 mi^2, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 5,952.9 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 42,000 acres, of which about 1,000 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,980 ft^3/s June, 11, 1997, gage height, 5.14 ft; maximum gage height, 6.37 ft, Feb. 1, 1963, backwater from ice; minimum, 54 ft^3/s Nov. 23, 1977, gage height, 0.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,980 ft^3/s June 23; minimum daily, 160 ft^3/s Dec. 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	330	314	323	e200	e220	233	374	419	1240	1260	601	407
2	332	318	311	e190	e220	235	371	429	971	1290	585	440
3	334	318	303	e180	e200	232	371	460	1120	1370	575	440
4	342	315	300	e190	e200	226	358	451	1160	1400	591	439
5	337	310	e280	e200	e200	223	348	429	1070	1500	580	430
6	329	312	e260	e200	e190	220	361	410	1150	1440	569	413
7	326	310	e260	e200	e200	228	386	400	1260	1370	561	397
8	321	313	e240	e220	e190	218	388	395	1350	1470	535	394
9	318	309	e240	e220	e220	221	387	398	1280	1360	517	393
10	313	305	e220	e220	e240	224	383	399	1080	1220	506	389
11	313	302	e220	e240	e220	229	373	401	974	1160	518	385
12	314	302	e220	e240	e200	233	390	400	930	1120	557	383
13	313	302	e240	e240	e220	234	392	401	992	1080	529	378
14	308	303	e240	239	e220	239	391	403	1100	1060	524	374
15	309	304	e260	242	e240	240	393	404	1270	1100	491	368
16	315	298	e260	244	e240	250	389	425	1400	971	477	363
17	319	298	e260	e240	e240	252	393	417	1610	930	470	359
18	316	302	e220	246	e220	253	402	411	1710	920	462	355
19	310	302	e190	242	e220	269	399	416	1750	857	456	352
20	309	300	e170	248	e200	316	397	424	1810	818	452	355
21	308	307	e160	249	e200	348	396	449	1840	788	447	351
22	308	395	e170	245	e220	352	401	496	1890	757	442	351
23	316	361	e180	e240	e240	354	396	523	1980	721	430	350
24	328	347	e190	e240	235	355	390	553	1860	690	423	340
25	322	327	e200	e220	220	359	405	711	1750	671	416	335
26	311	313	e200	e220	217	359	406	869	1770	649	408	330
27	313	308	e220	e200	219	364	407	959	1730	622	402	340
28	311	310	e200	e220	220	354	413	1020	1390	612	403	344
29	310	344	e220	e200	---	369	416	1130	1240	631	404	349
30	312	333	e220	e190	---	373	415	1250	1240	685	394	347
31	327	---	e220	e200	---	375	---	1460	---	636	412	---
TOTAL	9874	9482	7197	6865	6071	8737	11691	17712	41917	31158	15137	11251
MEAN	319	316	232	221	217	282	390	571	1397	1005	488	375
MAX	342	395	323	249	240	375	416	1460	1980	1500	601	440
MIN	308	298	160	180	190	218	348	395	930	612	394	330
AC-FT	19590	18810	14280	13620	12040	17330	23190	35130	83140	61800	30020	22320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1999, BY WATER YEAR (WY)

MEAN	316	285	230	207	216	273	366	539	954	772	422	345
MAX	481	458	342	343	328	522	528	1319	2458	1510	625	496
(WY)	1972	1984	1984	1997	1986	1972	1976	1997	1997	1982	1993	1965
MIN	156	162	133	122	124	175	193	236	291	231	161	158
(WY)	1978	1978	1991	1963	1988	1977	1981	1977	1977	1977	1992	1977

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1962 - 1999	
ANNUAL TOTAL	176434		177092			
ANNUAL MEAN	483		485		411	
HIGHEST ANNUAL MEAN					704	1997
LOWEST ANNUAL MEAN					236	1977
HIGHEST DAILY MEAN	1950	Jul 5	1980	Jun 23	2960	Jun 11 1997
LOWEST DAILY MEAN	160	Dec 21	160	Dec 21	75	Jan 11 1963
ANNUAL SEVEN-DAY MINIMUM	180	Dec 19	180	Dec 19	87	Jan 9 1963
ANNUAL RUNOFF (AC-FT)	350000		351300		297600	
10 PERCENT EXCEEDS	999		1120		761	
50 PERCENT EXCEEDS	345		352		313	
90 PERCENT EXCEEDS	245		220		175	

e Estimated

13055000 TETON RIVER NEAR ST. ANTHONY, ID

LOCATION.--Lat 43°55'38", long 111°36'55", in SW¼SW¼ sec.15, T.7 N., R.41 E., Fremont County, Hydrologic Unit 17040204, on right bank 0.5 mi upstream from railroad bridge, 4 mi southeast of St. Anthony, and at mile 22.

DRAINAGE AREA.--890 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1890 to September 1893, April 1903 to June 1909, (irrigation seasons only 1920-21, 1923-33), April 1920 to May 1976 (destroyed by flood of June 5, 1976), October 1977 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "near Wilford" or "at Chases Ranch" 1890-93.

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1347: 1903-6, 1908-9. WDR ID-80-1: 1979.

GAGE.--Water-stage recorder. Elevation of gage is 4,970 ft above sea level, from topographic map. Apr. 5, 1890 to Sept. 30, 1893, nonrecording gage at site 1 mi downstream at different datum. Apr. 23, 1903 to June 30, 1909, nonrecording gage at site 0.8 mi upstream at different datum. Apr. 19, 1920 to May 1, 1921, nonrecording gage, and May 2, 1921 to Nov. 5, 1933, water-stage recorder at site 400 ft downstream at different datum. Nov. 6, 1933 to June 5, 1976, water-stage recorder at approximately same site at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 58,000 acres of which about 4,400 acres are irrigated by withdrawals from ground water (1966 determination). Water is diverted at times (since 1939) during irrigation season from Henrys Fork through Cross Cut Canal to Teton River 0.8 mi upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,700,000 ft^3/s, estimated from the average of slope-area measurements of peak flow at Teton, 5.3 mi downstream, and near Newdale, 3.4 mi upstream, June 5, 1976 (Teton Dam failure); maximum stage, 42.2 ft. Maximum discharge excluding 1976, 11,000 ft^3/s Feb. 12, 1962, gage height, 9.36 ft, on basis of contracted-opening measurement of peak flow, site and datum then in use. Minimum discharge, 103 ft^3/s Oct. 4, 1975, gage height, 2.38 ft, site and datum then in use, due to filling of Teton Reservoir; minimum, excluding the filling period of Teton Reservoir, 203 ft^3/s Jan. 13, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,620 ft^3/s May 31; minimum daily, 360 ft^3/s Dec. 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	705	666	665	480	e450	475	616	1530	4190	2120	986	740
2	693	657	644	460	459	484	604	1680	3610	2090	944	742
3	678	662	625	444	441	474	604	1580	3660	2180	894	831
4	678	658	627	446	423	472	600	1460	4040	2250	921	809
5	686	649	601	454	461	459	589	1220	3610	2350	932	816
6	674	654	534	451	444	451	589	1050	3410	2330	895	784
7	666	648	543	458	462	454	602	955	3790	2160	860	751
8	659	652	555	458	450	462	641	956	3820	2290	875	738
9	650	652	544	456	431	460	673	1080	3850	2240	844	740
10	641	638	e460	454	491	461	654	1110	3330	1980	778	738
11	634	623	e440	458	443	451	610	1060	2860	1870	781	732
12	630	626	e460	462	423	453	604	983	2640	1820	916	724
13	629	626	e460	465	442	451	641	951	2650	1700	949	724
14	624	628	e480	461	457	451	681	942	2780	1630	920	725
15	639	635	e480	468	468	457	697	928	2990	1650	898	717
16	667	626	e500	479	449	470	674	952	3240	1550	834	708
17	674	620	e500	457	451	479	677	924	3510	1400	781	703
18	670	630	e480	471	438	478	726	870	3690	1410	763	694
19	660	627	e420	478	456	488	822	872	3700	1340	761	682
20	644	605	e360	482	439	524	868	1110	3670	1200	754	686
21	640	607	e380	487	437	608	942	1590	3710	1150	746	680
22	643	667	e380	476	429	647	890	1980	3830	1170	743	668
23	667	759	e400	481	446	632	766	2420	3720	1190	734	662
24	704	696	e400	468	462	654	716	2770	3520	1130	715	656
25	689	681	e420	456	456	704	721	3160	3350	1100	692	659
26	663	649	e420	e440	463	818	760	3460	3200	1080	692	652
27	651	625	e440	e420	452	799	806	3630	2990	998	745	632
28	652	632	e420	e440	458	691	933	3770	2590	974	766	613
29	647	662	e440	e420	---	637	1040	3790	2210	961	795	615
30	650	685	477	e420	---	649	1240	4070	2130	1080	818	620
31	674	---	488	e440	---	642	---	4620	---	1060	815	---
TOTAL	20481	19445	15043	14190	12581	16835	21986	57473	100290	49453	25547	21241
MEAN	661	648	485	458	449	543	733	1854	3343	1595	824	708
MAX	705	759	665	487	491	818	1240	4620	4190	2350	986	831
MIN	624	605	360	420	423	451	589	870	2130	961	692	613
AC-FT	40620	38570	29840	28150	24950	33390	43610	114000	198900	98090	50670	42130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 1999, BY WATER YEAR (WY)

MEAN	555	497	428	388	403	479	759	1639	2152	1269	765	629
MAX	910	868	708	652	895	758	1411	3439	4788	2882	1136	872
(WY)	1984	1984	1909	1997	1962	1972	1943	1997	1997	1975	1997	1971
MIN	362	326	300	280	280	295	333	630	488	359	293	284
(WY)	1993	1935	1906	1935	1937	1906	1976	1934	1934	1934	1934	1934

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1891 - 1999	
ANNUAL TOTAL	392558		374565			
ANNUAL MEAN	1076		1026		843	
HIGHEST ANNUAL MEAN					1405	1997
LOWEST ANNUAL MEAN					411	1934
HIGHEST DAILY MEAN	3700	Jun 27	4620	May 31	6970	Feb 12 1962
LOWEST DAILY MEAN	360	Dec 20	360	Dec 20	199	Oct 4 1975
ANNUAL SEVEN-DAY MINIMUM	394	Dec 19	394	Dec 19	246	Mar 16 1906
ANNUAL RUNOFF (AC-FT)	778600		742900		610600	
10 PERCENT EXCEEDS	2580		2490		1770	
50 PERCENT EXCEEDS	705		667		602	
90 PERCENT EXCEEDS	472		451		357	

e Estimated

13055000 TETON RIVER NEAR ST. ANTHONY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977-1981, October 1989 to September 1990, November 1992 to September 1996, April to October 1999 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1993 to September 1994 (discontinued).
WATER TEMPERATURE: May 1993 to September 1994, May 29 to September 24, 1996, May 1 to September 30, 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 434 microsiemens Sept. 23, 1993; minimum, 146 microsiemens May 28, 1993.
WATER TEMPERATURES: Maximum, 22.5 °C July 24-25, 31, Aug. 1-5, 1994.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 20.5 °C July 29-30.

WATER-QUALITY DATA, APRIL 1999 to OCTOBER 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)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
22...	1508	865	282	8.7	9.0	7.1	6.6	11.5	115	K15	K20
MAY											
26...	1422	3570	145	8.3	23.0	11.5	28	9.0	98	98	130
JUN											
29...	1155	2240	239	8.6	20.0	12.9	4.2	9.2	104	K9	K5
AUG											
03...	1225	886	277	8.5	29.2	18.3	1.0	8.1	102	22	27
SEP											
27...	1248	640	304	8.6	8.2	10.1	.78	9.6	103	K6	K6
OCT											
08...	1400	620	320	8.7	14.2	8.7	.70	10.0	102	K7	K3

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
27...	140	37	12	7.8	10	1.5	170	5

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
27...	145	6.9	4.1	.76	19	179	.24	310

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 TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
22...	<.010	.063	.021	.27	E.041	.012	11	26
MAY								
26...	<.010	.213	.043	.51	.118	.018	57	549
JUN								
29...	<.010	.217	<.020	.22	<.050	.015	10	60
AUG								
03...	<.010	.421	<.020	.26	E.037	<.010	7	17
SEP								
27...	<.010	.598	<.020	.11	<.050	<.010	2	3.5
OCT								
08...	<.010	.671	<.020	E.10	<.050	<.010	1	1.7

E Positive detection, but below stated detection limit.
K Results based on counts outside ideal colony range.

HENRYS FORK BASIN

13055000 TETON RIVER NEAR ST ANTHONY, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	9.8	8.8	9.1
2	---	---	---	8.8	7.6	8.3
3	---	---	---	7.9	6.5	7.3
4	---	---	---	6.8	5.6	6.3
5	---	---	---	6.8	5.1	5.9
6	---	---	---	8.8	5.4	6.9
7	---	---	---	10.1	7.0	8.5
8	---	---	---	11.8	8.1	9.7
9	---	---	---	10.9	8.4	9.5
10	---	---	---	9.0	7.0	8.1
11	---	---	---	8.8	6.5	7.5
12	---	---	---	8.7	6.5	7.5
13	---	---	---	9.0	7.3	8.0
14	---	---	---	9.9	7.0	8.2
15	---	---	---	8.2	7.3	7.7
16	---	---	---	9.0	7.1	7.7
17	---	---	---	10.1	6.7	8.2
18	---	---	---	9.9	7.8	8.8
19	---	---	---	12.1	8.4	10.1
20	---	---	---	13.3	9.9	11.5
21	---	---	---	13.3	11.2	12.1
22	---	---	---	12.9	10.7	11.7
23	---	---	---	12.4	10.1	11.1
24	---	---	---	12.4	9.8	10.9
25	---	---	---	11.8	9.8	10.6
26	---	---	---	11.5	9.8	10.5
27	---	---	---	11.3	9.9	10.5
28	---	---	---	11.3	9.6	10.4
29	---	---	---	10.1	8.7	9.6
30	---	---	---	8.7	7.3	8.1
31	---	---	---	7.3	6.7	7.0
MONTH	---	---	---	13.3	5.1	8.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.8	6.5	7.7	13.8	11.5	12.5	19.8	16.3	18.0	16.8	13.8	15.2
2	10.2	8.8	9.5	13.9	11.8	12.8	20.0	16.8	18.2	16.0	14.1	14.9
3	9.6	8.5	8.8	14.6	12.1	13.3	19.8	17.1	18.3	15.5	13.3	14.4
4	9.8	8.4	9.0	15.2	13.3	14.1	19.2	17.3	18.1	15.4	13.0	14.0
5	10.5	8.8	9.7	14.9	12.9	13.8	19.4	16.5	17.9	15.4	12.4	13.8
6	9.8	8.4	9.2	14.9	12.4	13.7	19.5	16.8	18.0	15.2	12.4	13.6
7	9.0	8.2	8.6	15.5	13.6	14.5	19.2	16.5	17.7	15.0	11.9	13.4
8	9.5	8.2	8.7	15.0	13.5	14.1	19.5	16.3	17.8	15.2	11.9	13.5
9	9.3	7.8	8.5	15.0	12.7	13.9	19.8	16.1	17.8	15.0	12.1	13.6
10	10.4	8.4	9.5	15.7	13.0	14.4	19.5	16.5	17.9	14.6	12.4	13.4
11	11.3	9.1	10.2	16.3	13.6	15.0	18.2	16.6	17.2	14.9	12.1	13.4
12	12.6	9.9	11.3	16.9	14.3	15.5	18.2	16.0	16.8	14.4	11.5	13.0
13	13.3	11.2	12.2	17.3	14.7	15.9	17.7	15.2	16.3	14.4	11.3	12.9
14	13.8	11.8	12.7	16.9	15.0	15.9	17.9	14.7	16.3	14.4	11.5	12.9
15	13.6	12.2	12.8	16.3	13.9	15.2	17.7	15.2	16.2	14.6	11.5	13.1
16	13.5	11.9	12.6	15.4	13.0	14.1	18.2	14.6	16.3	14.7	11.6	13.2
17	13.5	12.1	12.6	14.7	13.5	14.0	18.5	14.7	16.7	14.9	11.9	13.4
18	12.7	11.6	12.2	15.5	13.0	14.1	18.9	15.0	16.9	15.0	12.2	13.6
19	13.5	11.6	12.6	16.9	13.8	15.3	18.2	15.8	16.8	15.0	12.2	13.6
20	13.2	11.5	12.3	17.1	14.9	16.0	19.0	15.5	17.2	14.9	12.1	13.5
21	14.6	12.2	13.4	17.6	14.7	15.9	19.7	16.5	17.9	14.7	11.8	13.3
22	14.1	12.2	13.3	18.5	14.9	16.6	19.7	16.3	17.9	14.6	11.8	13.2
23	13.2	12.1	12.5	19.0	15.5	17.2	20.0	16.3	18.1	14.6	11.6	13.1
24	14.3	12.2	13.2	19.0	16.1	17.4	19.4	16.8	18.0	13.8	12.1	12.9
25	14.7	12.9	13.7	19.0	15.8	17.3	19.5	16.3	17.9	12.7	10.9	11.7
26	13.3	11.2	12.6	19.4	15.8	17.4	19.7	16.0	17.9	11.8	9.9	10.9
27	12.6	10.9	11.6	19.7	16.0	17.7	18.2	16.3	17.4	10.7	9.0	9.9
28	13.0	10.7	11.9	20.0	16.6	18.2	19.2	16.3	17.7	10.5	7.9	9.2
29	13.8	11.6	12.7	20.5	17.7	18.8	19.2	15.8	17.5	10.1	7.3	8.7
30	13.5	12.2	12.8	20.5	17.4	18.6	17.6	15.8	16.8	9.9	7.3	8.6
31	---	---	---	19.7	16.6	18.0	16.9	14.3	15.5	---	---	---
MONTH	14.7	6.5	11.3	20.5	11.5	15.5	20.0	14.3	17.4	16.8	7.3	12.8

HENRYS FORK BASIN

13055198 NORTH FORK TETON RIVER AT TETON, ID

LOCATION.--Lat 43°53'53", long 111°40'37", in NW¼NW¼NW¼ sec.31, T.7 N., R.41 E., Fremont County, Hydrologic Unit 17040204, on left bank 60 ft upstream from county road bridge, 0.4 mi downstream from point of diversion, 0.5 mi north of Teton, and at mile 16.2.

PERIOD OF RECORD.--October to November 1908, October 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,390 ft above sea level, from topographic map.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Flow partially regulated by headworks 0.4 mi upstream. Diversions from tributaries above station for irrigation in Wyoming and Idaho.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,590 ft³/s May 22, 1993, gage height, 12.64 ft; maximum gage height, 13.63 ft, Feb. 10, 1981, result of ice jam; minimum, 0.90 ft³/s Jan. 5, 1981, gage height, 6.13 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,000 ft³/s May 31, gage height, 11.68 ft; minimum daily, 90 ft³/s Dec. 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	307	144	162	e110	e100	128	162	454	1560	667	411	352
2	301	139	166	e100	e110	130	156	493	1180	714	398	349
3	290	140	172	e95	e100	128	155	461	1190	824	383	398
4	292	139	170	e100	e100	127	155	436	1480	860	387	395
5	220	136	166	e110	e110	121	152	374	1240	904	377	397
6	128	135	151	e110	e100	117	152	325	1140	897	363	379
7	125	133	150	e110	e110	118	155	292	1320	811	345	360
8	121	131	155	e110	117	124	170	292	1370	834	362	349
9	117	140	e140	e110	105	122	183	327	1390	829	343	350
10	114	146	e130	118	131	123	180	338	1140	740	308	348
11	108	142	e120	119	e110	118	162	325	936	692	305	338
12	106	140	e130	123	e100	118	156	304	824	679	373	336
13	104	140	e140	126	e100	117	168	291	823	649	408	335
14	103	141	e140	123	117	117	183	282	877	624	395	335
15	107	142	e140	126	123	118	190	264	931	633	385	333
16	121	141	150	129	116	126	182	273	1000	645	355	324
17	136	140	148	123	116	129	181	275	1110	622	327	314
18	136	141	134	123	112	129	204	260	1210	616	310	309
19	132	145	e120	128	117	133	246	256	1200	594	307	299
20	126	142	e90	129	113	144	267	307	1200	580	299	302
21	126	130	e95	131	110	163	289	446	1240	538	294	298
22	125	145	e95	128	108	177	279	555	1310	506	288	288
23	130	201	e100	130	107	168	235	701	1260	512	286	283
24	144	178	e100	127	123	173	208	823	1160	490	269	285
25	142	170	e110	e110	119	194	203	954	1080	484	249	286
26	134	155	e110	e110	124	239	223	1070	1020	477	251	284
27	133	151	e120	e100	118	241	238	1190	946	439	325	270
28	134	151	e110	e110	119	200	277	1210	800	424	354	254
29	131	157	e120	e100	---	171	308	1200	627	414	364	246
30	137	169	e120	e95	---	175	363	1320	633	470	385	247
31	143	---	e120	e100	---	175	---	1730	---	469	390	---
TOTAL	4673	4404	4074	3563	3135	4563	6182	17828	33197	19637	10596	9643
MEAN	151	147	131	115	112	147	206	575	1107	633	342	321
MAX	307	201	172	131	131	241	363	1730	1560	904	411	398
MIN	103	130	90	95	100	117	152	256	627	414	249	246
AC-FT	9270	8740	8080	7070	6220	9050	12260	35360	65850	38950	21020	19130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1999, BY WATER YEAR (WY)

MEAN	221	174	114	100	105	151	273	742	914	549	340	275
MAX	440	424	282	213	156	284	440	1286	1681	928	471	385
(WY)	1984	1984	1994	1997	1998	1995	1986	1993	1997	1995	1993	1996
MIN	105	23.7	14.8	15.6	19.2	69.1	119	288	385	281	194	161
(WY)	1988	1989	1989	1989	1989	1980	1981	1977	1977	1977	1988	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1909 - 1999	
ANNUAL TOTAL	132767		121495			
ANNUAL MEAN	364		333		336	
HIGHEST ANNUAL MEAN					498	1997
LOWEST ANNUAL MEAN					221	1988
HIGHEST DAILY MEAN	1300	Jun 15	1730	May 31	2430	May 22 1993
LOWEST DAILY MEAN	90	Dec 20	90	Dec 20	5.9	Nov 2 1988
ANNUAL SEVEN-DAY MINIMUM	100	Dec 20	100	Dec 20	12	Jan 31 1989
ANNUAL RUNOFF (AC-FT)	263300		241000		243600	
10 PERCENT EXCEEDS	886		831		765	
50 PERCENT EXCEEDS	249		178		230	
90 PERCENT EXCEEDS	133		110		75	

e Estimated

HENRYS FORK BASIN

13055340 SOUTH FORK TETON RIVER AT REXBURG, ID

LOCATION.--Lat 43°50'07", long 111°46'38", SW¼SW¼NW¼ sec.20, T.6 N., R.40 E. Madison County, Hydrologic Unit 17040204, on left bank at upstream side of bridge on U.S. Highway 20, 0.6 mi north of Rexburg, and at mile 19.1.

PERIOD OF RECORD.--November 1981 to current year. Fragmentary records only prior to September 1987.

GAGE.--Water-stage recorder. Elevation of gage is 4,860 ft above sea level, from topographic map. Prior to Sept. 9, 1987, nonrecording gage at same site and datum. October 1988 to present at datum 3.00 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Diversions above station used for irrigation above and below station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,410 ft³/s May 16, 1984, gage height, 7.27 ft, datum then in use and June 11, 1997, gage height, 10.68 ft, present datum; no flow at times many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,900 ft³/s June 1, gage height, 9.57 ft; minimum daily, 25 ft³/s July 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	114	230	293	e160	e180	205	296	986	2670	868	165	146
2	118	221	278	e150	e190	209	282	e1100	2160	797	164	139
3	108	224	252	e140	e180	205	279	e1000	2060	728	149	162
4	108	224	247	e150	e180	206	281	e900	2440	836	140	176
5	134	219	e240	e160	e190	199	273	e800	2250	862	179	163
6	226	213	e230	e160	e180	195	271	696	2030	819	177	139
7	219	212	e230	e160	e190	187	265	595	2170	705	160	141
8	212	211	e240	e160	e180	202	284	515	2270	720	149	138
9	202	217	e220	e160	176	199	318	580	2310	758	141	137
10	202	236	e210	e170	210	199	325	595	2060	640	128	132
11	202	239	e190	e180	e200	196	286	549	1710	611	125	124
12	190	240	e210	e190	e190	190	269	492	1560	560	188	115
13	196	240	e220	e200	e200	190	283	468	1510	463	232	102
14	199	239	e220	e200	199	187	309	452	1570	369	238	101
15	200	241	e230	e200	207	188	335	395	1540	478	233	109
16	223	243	e240	e210	196	194	330	402	1610	417	222	93
17	213	236	e240	207	193	205	328	393	1690	305	192	71
18	207	237	227	195	190	207	354	364	1810	304	156	70
19	204	240	e180	211	189	209	436	343	1810	273	147	77
20	195	247	e130	213	193	221	511	412	1870	163	158	93
21	203	217	e140	219	183	250	581	726	1850	93	135	94
22	204	235	e140	215	182	282	592	e950	1860	25	144	78
23	217	335	e150	214	169	281	485	1220	1860	76	138	54
24	241	314	e150	208	209	286	434	1360	1820	92	120	50
25	243	294	e160	e200	197	320	409	1530	1670	133	118	39
26	227	273	e160	e190	198	397	447	1750	1680	146	116	39
27	211	268	e170	e180	193	445	481	1860	e1500	122	138	45
28	207	272	e160	e190	190	383	564	1930	e1300	114	114	41
29	212	280	e170	e180	---	306	661	1990	1060	122	112	56
30	215	308	e170	e170	---	308	784	2190	949	152	111	84
31	228	---	e170	e180	---	322	---	2600	---	179	166	---
TOTAL	6080	7405	6267	5722	5334	7573	11753	30143	54649	12930	4855	3008
MEAN	196	247	202	185	190	244	392	972	1822	417	157	100
MAX	243	335	293	219	210	445	784	2600	2670	868	238	176
MIN	108	211	130	140	169	187	265	343	949	25	111	39
AC-FT	12060	14690	12430	11350	10580	15020	23310	59790	108400	25650	9630	5970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1999, BY WATER YEAR (WY)

MEAN	117	157	175	173	175	250	322	796	978	291	92.4	68.5
MAX	252	247	286	301	243	409	660	1908	2409	766	272	131
(WY)	1998	1999	1996	1997	1988	1988	1997	1997	1997	1995	1997	1996
MIN	33.5	91.6	101	86.4	92.7	151	49.3	145	95.4	3.86	8.52	9.63
(WY)	1993	1993	1995	1991	1993	1993	1993	1992	1994	1994	1992	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1983 - 1999	
ANNUAL TOTAL	164684.45		155719			
ANNUAL MEAN	451		427		300	
HIGHEST ANNUAL MEAN					620	1997
LOWEST ANNUAL MEAN					103	1992
HIGHEST DAILY MEAN	2090	Jun 27	2670	Jun 1	3410	May 16 1984
LOWEST DAILY MEAN	.00	Aug 29	25	Jul 22	.00	Oct 23 1988
ANNUAL SEVEN-DAY MINIMUM	2.2	Aug 29	46	Sep 23	.00	Jun 30 1994
ANNUAL RUNOFF (AC-FT)	326700		308900		217100	
10 PERCENT EXCEEDS	1370		1250		815	
50 PERCENT EXCEEDS	220		213		171	
90 PERCENT EXCEEDS	75		123		40	

e Estimated

HENRYS FORK BASIN

13056500 HENRYS FORK NEAR REXBURG, ID

LOCATION.--Lat 43°49'34", long 111°54'15", in NW¼NE¼ sec.30, T.6 N., R.39 E., Madison County, Hydrologic Unit 17040203, on right bank 200 ft downstream from highway bridge, 6 mi west of Rexburg, and at mile 9.2.

DRAINAGE AREA.--2,920 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1909 to current year. Monthly discharge only for some periods, published in WSP 1317. Prior to 1911, published as "North Fork of Snake River near Rexburg".

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,806.35 ft above sea level. Apr. 13, 1909 to Sept. 28, 1912, nonrecording gage at datum 0.67 ft higher. Sept. 29, 1912 to Apr. 4, 1913, nonrecording gage at present datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by operation of powerplant near Ashton, Henrys Lake (see sta 13039000), Island Park Reservoir, and Grassy Lake. Diversions above station for irrigation of about 204,000 acres above and about 5,000 acres below station, of which about 21,000 acres are irrigated by withdrawals from ground water (1966 determination). Considerable water leaks above station into the Snake River Plain aquifer. Station is downstream from all tributaries except inflow from ground water and irrigation waste.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 79,000 ft^3/s June 5, 1976; maximum gage height, 22.36 ft, June 5, 1976, result of Teton Dam failure. Maximum discharge excluding 1976, 16,400 ft^3/s May 17, 1984, gage height, 12.05 ft, from high-water mark in gage well; minimum, 183 ft^3/s Mar. 24-28, 1934, gage height, 1.45 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 13,500 ft^3/s June 1; minimum daily, 1,160 ft^3/s July 28, 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	2050	2470	2840	e2300	e2300	2350	2460	5540	13500	3650	1570	1700
2	2060	2470	2770	e2200	e2400	2350	2360	7280	12300	3570	1530	1690
3	2130	2480	2750	e2100	e2300	2320	2330	8120	11600	3430	1580	1750
4	2130	2490	2770	e2000	e2300	2320	2390	8150	12500	3580	1570	1800
5	2160	2490	2810	e2200	e2300	2330	2350	7090	13000	3720	1630	1810
6	2190	2540	2650	e2300	e2300	2270	2380	5980	11900	3580	1600	1740
7	2170	2570	2700	e2200	e2200	2270	2400	5350	11600	3270	1570	1720
8	2130	2590	2670	e2200	e2300	2300	2360	5350	12300	3110	1640	1690
9	2130	2590	2650	e2300	e2300	2320	2510	5890	12100	3090	1630	1680
10	2100	2590	2460	e2200	e2200	2330	2570	6320	11700	2850	1570	1700
11	2030	2570	e2300	e2300	e2300	2310	2450	6110	10500	2620	1590	1690
12	2020	2570	e2500	e2300	e2100	2240	2360	5630	9570	2510	1910	1590
13	1990	2560	e2500	e2200	e2200	2250	2390	5470	8910	2350	2160	1600
14	2010	2560	e2400	e2100	e2300	2240	2470	5700	8590	2290	2210	1590
15	2040	2580	e2300	e2200	e2300	2260	2570	5610	8410	2250	2150	1590
16	2080	2590	e2200	e2200	e2300	2310	2610	5420	8330	2100	2090	1570
17	2130	2570	e2200	e2300	2350	2310	2590	5240	8250	1940	1960	1490
18	2140	2650	e2200	e2200	2340	2310	2630	4910	8400	1870	1750	1440
19	2120	2650	e2100	e2300	2340	2310	2890	4750	8500	1880	1620	1400
20	2140	2590	e1300	e2200	2340	2340	3200	4910	8290	1640	1590	1440
21	2190	2580	e1400	e2300	2290	2410	3490	5610	8090	1480	1560	1450
22	2260	2700	e1400	e2300	2310	2520	3630	6600	7860	1320	1540	1490
23	2350	2840	e1700	e2200	2330	2520	3280	7650	7810	1180	1580	1450
24	2490	2870	e2000	e2300	2380	2510	3080	8570	7310	1270	1460	1430
25	2550	2800	e2400	e2200	2380	2620	3080	9080	6660	1260	1420	1460
26	2490	2740	e2600	e2200	2370	2750	3280	9630	6230	1300	1410	1490
27	2450	2690	e2600	e2300	2340	2950	3410	9990	6050	1170	1330	1550
28	2400	2700	e2600	e2300	2310	2790	3630	10100	5590	1160	1260	1630
29	2390	2750	e2600	e2200	---	2610	4130	10300	4770	1160	1310	1680
30	2440	2860	e2500	e2200	---	2480	4680	11000	4010	1210	1290	1740
31	2450	---	e2400	e2200	---	2470	---	12200	---	1510	1410	---
TOTAL	68410	78700	73270	69000	64480	74670	85960	219550	274630	69320	50490	48050
MEAN	2207	2623	2364	2226	2303	2409	2865	7082	9154	2236	1629	1602
MAX	2550	2870	2840	2300	2400	2950	4680	12200	13500	3720	2210	1810
MIN	1990	2470	1300	2000	2100	2240	2330	4750	4010	1160	1260	1400
AC-FT	135700	156100	145300	136900	127900	148100	170500	435500	544700	137500	100100	95310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1999, BY WATER YEAR (WY)

MEAN	1749	1898	1767	1698	1756	1768	2289	4114	3979	1687	1316	1527
MAX	3071	3282	2663	2972	2701	2805	4847	10600	10220	5133	3986	2896
(WY)	1972	1972	1984	1997	1984	1997	1986	1997	1997	1984	1984	1971
MIN	377	440	1073	1100	1064	340	388	390	434	358	446	561
(WY)	1932	1935	1935	1935	1934	1934	1934	1934	1931	1931	1933	1931

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1909 - 1999	
ANNUAL TOTAL	1155451		1176530			
ANNUAL MEAN	3166		3223		2123	
HIGHEST ANNUAL MEAN					4134	1984
LOWEST ANNUAL MEAN					829	1934
HIGHEST DAILY MEAN	9870	Jun 28	13500	Jun 1	79000	Jun 5 1976
LOWEST DAILY MEAN	792	Sep 4	1160	Jul 28	183	Mar 24 1934
ANNUAL SEVEN-DAY MINIMUM	849	Aug 31	1210	Jul 23	190	Mar 22 1934
ANNUAL RUNOFF (AC-FT)	2292000		2334000		1538000	
10 PERCENT EXCEEDS	6990		7170		3760	
50 PERCENT EXCEEDS	2500		2340		1740	
90 PERCENT EXCEEDS	1420		1570		944	

e Estimated

HENRYS FORK BASIN

13056500 HENRYS FORK NEAR REXBURG, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-1982, July 1989 to September 1996, September 1999 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1995, June to September 1996 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERAUTRES: Maximum 23.2 °C, July 26, 1996.

COLLECTION METHODS.--Electrofishing; boat (13A).

LENGTH OF REACH.--730 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--0.95 hours.

ANOMALY CODES.--AA-none; AL-anchor worms; BL-black spot; CL-leeches; DE-deformities; ER-eroded fins; IC-ich; LE-lesions; NE-blind; PA-other parasites; PE-popeye; TU-tumors.

HABITAT QUALITY INDEX.--NA.

BIOLOGICAL DATA, SEPTEMBER 1999
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	SEP 21								
Catostomidae (Suckers)									
Catostomus adrens									
(Utah sucker)		56	23.6	43-115	1-18	NATIVE	OMNIVORE	COOL	56-AA
Cyprinidae (Carps and minnows)									
Gila atraria									
(Utah chub)		3	1.3	145-246	45-201	NATIVE	OMNIVORE	COOL	3-AA
Rhynichthys osculus									
(Speckled dace)		5	2.1	30-55	1-4	NATIVE	INVERTIVORE	COOL	5-AA
Richardsonius balteatus									
(Redside shiner)		145	61.2	28-91	1-10	NATIVE	INVERTIVORE	COOL	145-AA
Pimephales promelas									
(Fathead minnow)		1	0.4	56	3	INTRODUCED	OMNIVORE	WARM	1-AA
Cottidae (Sculpins)									
Cottis bairdi									
(Mottled Sculpin)		17	7.2	28-95	1-16	NATIVE	INVERTIVORE	COOL	17-AA
Salmonidae (Trouts)									
Oncorhynchus clarki									
(Cutthroat trout)		2	0.8	215-510	105-1672	NATIVE	INVERTIVORE	COLD	2-AA
Oncorhynchus mykiss									
(Rainbow trout)		1	0.4	77	5	[a]INTRODUCED	INVERTIVORE	COLD	1-AA
Prosopium williamsoni									
(Mountain whitefish)		6	2.5	105-112	11-15	NATIVE	INVERTIVORE	COLD	6-AA
Salmo trutta									
(Brown trout)		1	0.4	103	14	INTRODUCED	INVERTIVORE	COLD	1-AA

a-Rainbow trout are considered native in Idaho downstream of Shoshone Falls and introduced upstream of Shoshone Falls.

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 10
TOTAL INDIVIDUALS 237

SNAKE RIVER BASIN

13057132 GREAT WESTERN CANAL SPILLBACK NEAR IDAHO FALLS, ID

LOCATION.--Lat 43°36'25", long 112°04'32", in NW¼SW¼SW¼ sec.12, T.3 N., R.37 E., Bonneville County, Hydrologic Unit 17040201, on right bank 3.2 mi north of Idaho Falls municipal powerplant and 8 mi north of Idaho Falls.

PERIOD OF RECORD.--September 1987 to current year, (prior to October 1988, discharge measurements and gage height record).

GAGE.--Water-stage recorder. Elevation of gage is 4,750 ft above sea level, from topographic map.

REMARKS.--Records good. Station equipment includes satellite telemetry. Flow is spillback from the Great Western Canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 761 ft³/s May 19, 1991; no flow for many days each year.

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	223	.00	.00	.00	.00	.00	e.00	164	111	87	199	195
2	215	.00	.00	.00	.00	.00	e.00	166	118	90	205	239
3	211	.00	.00	.00	.00	.00	e.00	166	118	99	206	223
4	212	.00	.00	.00	.00	.00	e.00	144	120	103	203	214
5	213	.00	.00	.00	.00	.00	e.00	123	120	106	200	201
6	215	.00	.00	.00	.00	.00	e.00	122	121	101	200	187
7	215	.00	.00	.00	.00	.00	e.00	122	121	92	199	202
8	214	.00	.00	.00	.00	.00	e.00	121	120	96	199	220
9	214	.00	.00	.00	.00	.00	e.00	122	118	94	194	232
10	212	.00	.00	.00	.00	.00	e.00	122	126	92	177	228
11	209	.00	.00	.00	.00	e.00	e.00	122	141	90	169	231
12	209	.00	.00	.00	.00	e.00	e.00	122	147	88	172	226
13	206	.00	.00	.00	.00	e.00	e.00	120	122	89	181	229
14	207	.00	.00	.00	.00	e.00	e.00	119	104	97	190	231
15	219	.00	.00	.00	.00	e.00	e.00	98	101	96	193	226
16	231	.00	.00	.00	.00	e.00	e.00	83	103	99	190	218
17	228	.00	.00	.00	.00	e.00	e.00	82	104	110	177	216
18	226	.00	.00	.00	.00	e.00	e.00	78	101	121	172	211
19	256	.00	.00	.00	.00	e.00	e.00	88	101	128	170	204
20	287	.00	.00	.00	.00	e.00	e11	93	108	131	174	203
21	287	.00	.00	.00	.00	e.00	351	92	108	117	175	209
22	288	.00	.00	.00	.00	e.00	223	89	109	119	185	212
23	289	.00	.00	.00	.00	e.00	238	90	106	123	182	212
24	288	.00	.00	.00	.00	e.00	227	89	107	127	182	209
25	289	.00	.00	.00	.00	e.00	216	88	111	138	175	199
26	152	.00	.00	.00	.00	e.00	187	83	109	151	174	202
27	.25	.00	.00	.00	.00	e.00	186	84	131	144	174	209
28	.00	.00	.00	.00	.00	e.00	169	84	121	140	174	214
29	.00	.00	.00	.00	---	e.00	161	85	107	148	176	223
30	.00	.00	.00	.00	---	e.00	162	97	95	161	176	224
31	.00	---	.00	.00	---	e.00	---	104	---	193	188	---
TOTAL	6015.25	0.00	0.00	0.00	0.00	0.00	2131.00	3362	3429	3570	5731	6449
MEAN	194	.000	.000	.000	.000	.000	71.0	108	114	115	185	215
MAX	289	.00	.00	.00	.00	.00	351	166	147	193	206	239
MIN	.00	.00	.00	.00	.00	.00	.00	78	95	87	169	187
AC-FT	11930	.00	.00	.00	.00	.00	4230	6670	6800	7080	11370	12790

CAL YR 1998 TOTAL 32699.25 MEAN 89.6 MAX 318 MIN .00 AC-FT 64860
WTR YR 1999 TOTAL 30687.25 MEAN 84.1 MAX 351 MIN .00 AC-FT 60870

e Estimated

SNAKE RIVER MAIN STEM

13057155 SNAKE RIVER ABOVE EAGLE ROCK NEAR IDAHO FALLS, ID

LOCATION.--Lat 43°36'20", long 112°03'28", in NE¼NW¼SW¼ sec.12, T.3 N., R.37 E., Bonneville County, Hydrologic Unit 17040201, on right bank 3.5 mi upstream of Idaho Falls Municipal powerplant, 8.0 mi north of Idaho Falls, and at mile 805.

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

GAGE.--Water-stage recorder. Datum of gage is 4,730.00 ft above sea level (levels by U.S. Geological Survey). Records comparable with former station "Snake River near Idaho Falls" (sta 13057160) except during irrigation season.

REMARKS.--Records good except for discharges Aug. 19 to Sept. 4, Sept. 10-27 and estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Some regulation by Jackson Lake, Palisades Reservoir, Island Park Reservoir, Henrys Lake, and Grassy Lake. Diversions above station for irrigation of about 700,000 acres. Considerable water leaks above station into the Snake River Plain aquifer.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,600 ft³/s June 16, 1997, gage height, 18.91 ft; minimum daily, 950 ft³/s Dec. 22, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,400 ft³/s June 2, gage height, 14.85 ft; minimum daily, 2,800 ft³/s Dec. 22, 23.

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

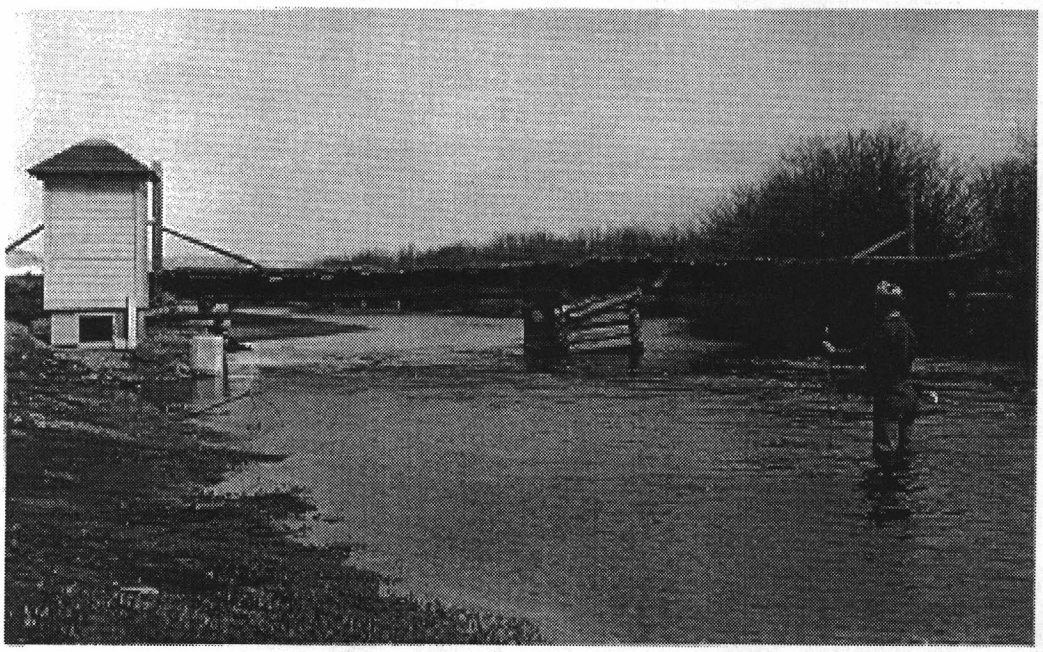
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5130	5260	5510	e4800	e6900	7750	13600	14000	27800	11300	8500	6900
2	5130	5270	5350	4860	e7300	7820	13500	14800	29200	9680	9110	7270
3	4940	5340	5300	4590	e7200	7740	13500	16200	29100	9270	8890	6900
4	4960	e5400	5350	4490	e7100	7750	13500	16500	28700	8990	8350	6490
5	5070	e5400	e5200	4420	e6900	7770	13600	16000	28900	9260	7990	6240
6	5170	e5300	e5100	4460	e7100	7690	13600	15000	28700	8930	7880	6090
7	5150	5140	5050	e4500	e7400	7180	13700	15300	28000	8260	7480	5880
8	5030	5180	5100	e4400	e7800	6660	13500	15700	27200	8600	6920	5890
9	4900	5120	5070	4400	e7700	6220	13100	16600	27200	8580	6800	5880
10	4640	5060	4850	4450	e7800	6130	12700	17300	26900	8550	6350	5840
11	4490	5090	e4600	4440	e7700	6500	12300	17500	25800	8490	6120	5660
12	4420	5040	e4700	4450	7520	7970	12000	17500	24200	8090	6530	5470
13	4280	4880	e4800	4500	7590	8910	11900	17400	23300	7660	7080	5520
14	4410	4730	4740	4580	7700	9910	11200	17200	22600	7590	7360	5470
15	4270	4740	4780	4530	7740	10900	11200	17300	e22000	7660	7350	5400
16	4070	4770	4710	4530	7730	12100	11400	17300	e21000	7760	7200	5470
17	4150	4720	4660	4490	7760	12900	11400	17100	e22000	7690	6760	5280
18	4150	4830	4580	4410	7700	13000	11100	16500	e21000	7910	6070	5130
19	4190	4810	e4100	4430	7650	13200	11300	16100	e21000	7930	5900	5090
20	4150	4790	e3500	4450	7630	13300	11500	16000	e22000	7450	5630	5090
21	4210	5170	e2900	4770	7610	13400	11800	15900	e21000	6970	5530	4910
22	4250	5290	e2800	4710	7620	13600	12000	16300	e21000	6760	6070	4960
23	4390	5490	e2800	e4800	7650	13600	11900	17000	e21000	6680	6010	4890
24	4610	5630	e2900	e4900	7730	13600	11500	17700	e22000	6760	6140	5080
25	4720	5500	e3400	e5000	7700	13700	11400	18500	e22000	7040	5940	5360
26	4820	5450	e4000	e4800	7810	13800	11500	19700	21900	7260	5820	5340
27	4800	5320	e4600	e5300	7710	14100	11600	21400	20800	6990	5670	5540
28	4770	5310	e4800	e5700	7690	14100	11800	22200	19400	6820	5460	5280
29	4580	5330	e4900	e5700	---	13800	12400	22900	16800	7030	5610	5100
30	4640	5460	e4600	e5700	---	13600	13100	24100	13700	7330	5650	5120
31	4870	---	e4700	e5600	---	13500	---	25900	---	7830	6410	---
TOTAL	143360	154820	139450	147160	211440	332200	368600	548900	706200	247120	208580	168540
MEAN	4625	5161	4498	4747	7551	10720	12290	17710	23540	7972	6728	5618
MAX	5170	5630	5510	5700	7810	14100	13700	25900	29200	11300	9110	7270
MIN	4070	4720	2800	4400	6900	6130	11100	14000	13700	6680	5460	4890
AC-FT	284400	307100	276600	291900	419400	658900	731100	1089000	1401000	490200	413700	334300

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

MEAN	3422	3579	3399	3623	4575	5898	7139	12170	14630	8773	6385	4921
MAX	5884	6308	6560	7901	12100	16040	16260	24050	35400	14050	9863	7203
(WY)	1998	1998	1998	1997	1997	1997	1997	1997	1997	1997	1997	1990
MIN	2491	2323	1990	2034	2127	1987	2297	5642	6620	6061	4866	3703
(WY)	1989	1993	1991	1993	1988	1988	1991	1988	1988	1989	1992	1988

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1988 - 1999	
ANNUAL TOTAL	3265130		3376370			
ANNUAL MEAN	8946		9250		6547	
HIGHEST ANNUAL MEAN					12880	1997
LOWEST ANNUAL MEAN					4004	1988
HIGHEST DAILY MEAN	21900	May 29	29200	Jun 2	47900	Jun 16 1997
LOWEST DAILY MEAN	2800	Dec 22	2800	Dec 22	950	Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	3190	Dec 20	3190	Dec 20	1210	Dec 19 1990
ANNUAL RUNOFF (AC-FT)	6476000		6697000		4743000	
10 PERCENT EXCEEDS	18600		17600		14500	
50 PERCENT EXCEEDS	6700		6970		4890	
90 PERCENT EXCEEDS	4740		4530		2300	

e Estimated



Camas Creek near Kilgore, Idaho (April 23, 1940)

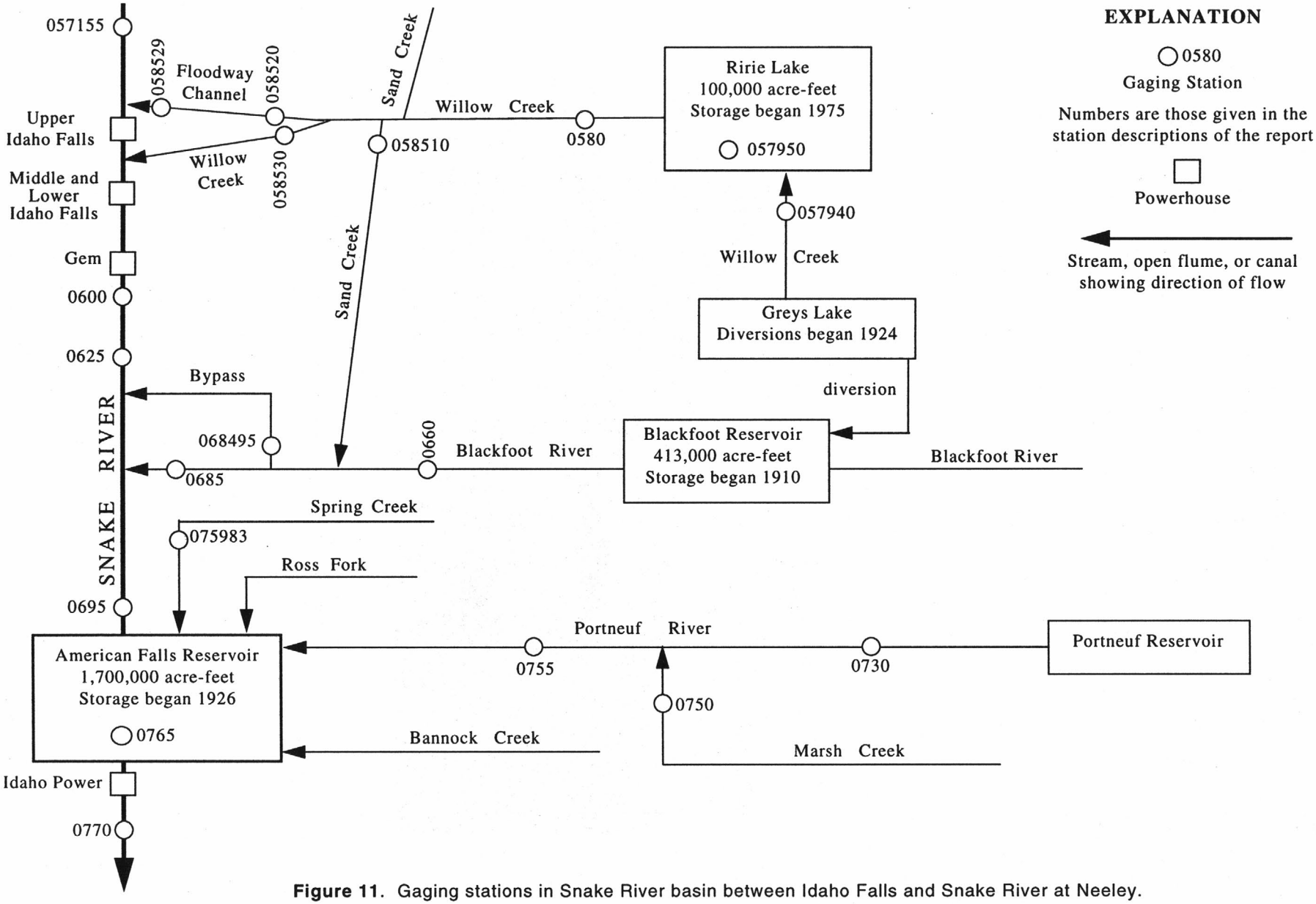


Figure 11. Gaging stations in Snake River basin between Idaho Falls and Snake River at Neeley.

WILLOW CREEK BASIN

13057940 WILLOW CREEK BELOW TEX CREEK, NEAR RIRIE, ID

LOCATION.--Lat 43°26'33", long 111°43'37", in NE¼SE¼ sec.3, T.1 N., R.40 E., Bonneville County, Hydrologic Unit 17040205, on right bank, 0.3 mi below Tex Creek and 13.2 mi southeast of Ririe.

DRAINAGE AREA.--568 mi^2.

PERIOD OF RECORD.--August 1977 to September 1979, October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,200 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 7,300 acres, of which 100 acres are irrigated by withdrawals from ground water (1966 determination). Since May 1924, water has been diverted from Grays Lake into Meadow Creek basin and thence into Blackfoot Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,420 ft^3/s May 7, 1997, gage height, 6.73 ft; minimum, 2.1 ft^3/s Aug. 23, 1992, gage height, 1.62 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,790 ft^3/s Apr. 30, gage height, 6.09 ft; minimum, 33 ft^3/s Mar. 13, gage height, 2.34 ft, but may have been lower during period of no gage-height record Mar. 14-19.

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	65	71	96	e70	e60	e60	123	1600	714	213	78	63
2	67	71	91	e65	e60	e60	120	1460	594	203	76	65
3	68	71	86	e65	e60	e60	121	1370	569	193	75	65
4	72	70	86	e65	e60	e55	129	1100	540	174	73	67
5	72	69	e75	68	e60	e55	119	870	536	165	75	61
6	70	74	e70	63	e60	e55	122	741	529	158	77	56
7	69	75	e55	61	62	e60	122	698	560	152	74	54
8	66	75	e60	e60	e65	e60	144	768	585	147	71	53
9	64	76	e60	59	e65	63	157	740	576	146	66	53
10	64	71	e55	59	e65	63	142	663	535	139	65	52
11	63	73	e65	60	e60	57	135	626	487	131	78	52
12	63	80	e70	60	e60	62	139	583	451	127	85	51
13	62	69	e70	59	e60	59	158	600	420	123	82	50
14	62	75	e75	56	e60	e65	197	602	410	117	77	50
15	63	73	e75	60	e60	e65	214	578	382	111	70	49
16	66	75	e70	e60	e60	e70	219	627	366	117	65	49
17	67	75	e70	e60	e60	e75	238	575	365	112	60	49
18	67	82	e65	63	e60	e80	311	528	367	141	58	48
19	65	80	e60	65	e55	e110	429	526	349	129	57	50
20	65	65	e55	63	e55	125	504	540	329	116	57	55
21	65	82	e45	62	e55	167	552	548	313	110	57	53
22	66	97	e55	60	e55	149	506	563	297	101	58	50
23	72	106	e55	58	e55	136	434	567	288	94	55	49
24	75	99	e55	e55	e60	150	443	564	274	90	54	49
25	72	93	e60	e55	e60	169	607	573	262	86	53	47
26	70	80	e65	e60	e60	192	716	572	251	82	51	47
27	69	82	e70	e60	e55	173	830	558	244	80	52	48
28	70	85	e70	e55	e60	140	991	526	237	78	53	50
29	72	100	e75	e55	---	134	1350	553	226	79	51	50
30	71	105	e70	e50	---	134	1630	620	219	80	62	51
31	72	---	e70	e55	---	124	---	831	---	81	70	---
TOTAL	2094	2399	2099	1866	1667	3027	11902	22270	12275	3875	2035	1586
MEAN	67.5	80.0	67.7	60.2	59.5	97.6	397	718	409	125	65.6	52.9
MAX	75	106	96	70	65	192	1630	1600	714	213	85	67
MIN	62	65	45	50	55	55	119	526	219	78	51	47
AC-FT	4150	4760	4160	3700	3310	6000	23610	44170	24350	7690	4040	3150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1999, BY WATER YEAR (WY)

MEAN	39.2	44.0	42.5	42.7	46.0	95.7	359	490	195	68.1	38.7	32.9
MAX	73.6	80.0	67.7	101	65.1	264	867	1427	409	148	93.1	72.7
(WY)	1987	1999	1999	1997	1986	1986	1986	1997	1999	1997	1997	1997
MIN	10.5	16.7	19.5	20.2	20.2	42.7	63.5	25.3	15.2	6.48	3.16	7.38
(WY)	1993	1993	1993	1993	1993	1991	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1977 - 1999	
ANNUAL TOTAL	72040		67095			
ANNUAL MEAN	197		184		125	
HIGHEST ANNUAL MEAN					287	1997
LOWEST ANNUAL MEAN					27.4	1992
HIGHEST DAILY MEAN	1140	May 1	1630	Apr 30	2210	May 7 1997
LOWEST DAILY MEAN	45	Dec 21	45	Dec 21	2.4	Aug 22 1992
ANNUAL SEVEN-DAY MINIMUM	55	Dec 19	49	Sep 22	2.7	Aug 18 1992
ANNUAL RUNOFF (AC-FT)	142900		133100		90440	
10 PERCENT EXCEEDS	577		559		323	
50 PERCENT EXCEEDS	75		72		51	
90 PERCENT EXCEEDS	60		55		18	

e Estimated

WILLOW CREEK BASIN

13057950 RIRIE LAKE NEAR RIRIE, ID

LOCATION.--Lat 43°34'51", long 111°44'31", in NW¼NW¼ sec.22, T.3 N., R.41 E., Bonneville County, Hydrologic Unit 17040205, at control tower of Ririe Dam on Willow Creek, 3.4 mi southeast of Ririe, and at mile 20.5.

DRAINAGE AREA.--487 mi^2, excluding area above Grays Lake outlet.

PERIOD OF RECORD.--January to September 1976, October 1977 to September 1978, October 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Station equipment includes satellite telemetry. Reservoir is formed by rock-faced earthfill dam. Some storage began in July 1974. Usable storage for flood control and irrigation began in January 1976. Total capacity is 100,000 acre-ft between elevations 4,997.0 ft, invert of outlet conduit, and 5,118.7 ft. A conservation and sediment pool stores approximately 10,000 acre-ft below 5,023 ft. Release is controlled by two slide gates discharging into a 12-ft diameter outlet conduit; capacity 1,900 ft^3/s. Spillway crest is at elevation 5,093 ft, controlled by two gates.

COOPERATION.--Capacity table furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 82,200 acre-ft May 25, 26, 1993, May 18, 1997, elevation, 5113.90 ft; minimum contents, after storage began in January 1976; 500 acre-ft Sept. 30, 1976, elevation, 5,024.40 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 80,800 acre-ft June 3, elevation, 5,113.02 ft; minimum contents, 30,400 acre-ft Nov. 13, elevation, 5,071.67 ft.

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

5,070	28,900	5,110	76,200
5,090	49,500	5,120	92,200

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	60900	40800	34100	38100	42000	45600	52300	70000	80800	79000	76300	74500
2	60200	40100	34300	38200	42200	45700	52500	71700	80800	79000	76200	74400
3	59700	39500	34500	38300	42200	45900	52700	72900	80800	78900	76100	74300
4	58900	38800	34800	38400	42300	46000	53000	73500	80800	78800	76100	74300
5	58400	37800	34800	38500	42400	46200	53200	73600	80800	78700	76100	74200
6	57600	36700	35000	38700	42600	46300	53500	73300	80800	78500	76000	74200
7	57000	35700	35100	38800	42700	46400	53700	72800	80700	78400	75900	74100
8	56300	34700	35200	38900	42800	46500	53900	72500	80700	78300	75900	74000
9	55700	33700	35300	39100	43000	46700	54200	72100	80700	78200	75800	73900
10	55000	32700	35400	39200	43000	46800	54500	71800	80700	78100	75700	73900
11	54300	31600	35400	39300	43200	47000	54700	71800	80600	78000	75700	73800
12	53600	30700	35600	39400	43400	47100	55000	71900	80400	77900	75600	73700
13	53000	30400	35800	39500	43500	47200	55200	72000	80000	77800	75600	73400
14	52400	30400	36000	39600	43600	47300	55600	72100	79700	77600	75500	73100
15	51700	30800	36100	39800	43700	47500	55900	72200	79700	77600	75500	72400
16	51000	31000	36300	39900	43800	47800	56300	72500	79800	77500	75400	71700
17	50300	31100	36500	40000	44000	48000	56800	72500	79700	77400	75300	70800
18	49700	31300	36500	40100	44100	48200	57400	72800	79700	77400	75200	70100
19	49000	31500	36600	40400	44200	48500	58300	73300	79700	77400	75100	69400
20	48400	31700	e36600	40500	44400	48800	58900	73700	79700	77300	75000	68800
21	47800	31900	36700	40600	44600	49100	59600	74200	79700	77200	75000	68000
22	47200	32200	36800	40800	44600	49400	60200	74700	79700	77100	75000	67300
23	46500	32400	36900	40900	44800	49700	60600	75200	79700	77000	74900	66600
24	45800	32600	37000	41000	44800	50000	61000	75800	79600	76900	74900	65900
25	45300	32800	37100	41100	45000	50300	61800	76500	79400	76800	74800	65000
26	44600	33000	37200	41200	45100	50800	62600	77100	79300	76700	74800	64200
27	44000	33200	37400	41400	45200	51100	63400	77800	79200	76700	74600	63500
28	43400	33400	37500	41400	45400	51300	64500	78300	79100	76700	74600	62800
29	42700	33600	37600	41500	---	51600	66100	78700	79100	76600	74500	62100
30	42100	33800	37800	41600	---	51900	68200	79300	79000	76500	74500	61400
31	41400	---	37900	41700	---	52000	---	80200	---	76400	74500	---
MAX	60900	40800	37900	41700	45400	52000	68200	80200	80800	79000	76300	74500
MIN	41400	30400	34100	38100	42000	45600	52300	70000	79000	76400	74500	61400
†	5082.83	5075.35	5079.40	5083.14	8086.41	5092.11	5104.45	5112.59	5111.85	5110.15	5108.80	5099.52
‡	-20100	-7600	4000	3800	3700	6600	16100	12000	-1100	-2600	-2000	-13100

CAL YR 1998 MAX 81100 MIN 30400 ‡ 700
WTR YR 1999 MAX 80800 MIN 30400 ‡ -200

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.
e Estimated

WILLOW CREEK BASIN

13058000 WILLOW CREEK NEAR RIRIE, ID

LOCATION.--Lat 43°35'02", long 111°44'44", in SE¼SE¼ sec.16, T.3 N., R.40 E., Bonneville County, Hydrologic Unit 17040205, on right bank 0.25 mi downstream from Ririe Dam, 3.4 mi southeast of Ririe, and at mile 20.2.

DRAINAGE AREA.--627 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1903 to September 1904, October 1916 to September 1925, May to August 1928, October 1962 to September 1979, October 1985 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Elevation of gage is 4,950 ft above sea level, from topographic map. Prior to September 1904, nonrecording gage at site about 3.25 mi downstream at different datum. October 1916 to June 1921, nonrecording gage, June 1921 to August 1928, water-stage recorder at present site. October 1962 to September 1979, at site 1.75 mi downstream at different datum. Records comparable.

REMARKS.--No estimated daily discharges. Records good. Diversions above station for irrigation of about 7,300 acres, of which about 100 acres are irrigated by withdrawals from ground water (1966 determination). Since May 1924, water has been diverted from Grays Lake some years, about 40 mi upstream, into Meadow Creek basin and thence into Blackfoot Reservoir. Flow regulated by Ririe Reservoir (sta 13057950) beginning December 1975, with some storage beginning July 1974. During winter months when gates at Ririe Dam are closed, seepage may pass the gage, but sinks into the gravels; consequently this flow is not published.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed (1903-74), 4,200 ft^3/s May 15, 1917, gage height, 16.30 ft; minimum daily, 1.2 ft^3/s Aug. 12, 1974. Maximum discharge since regulation (1975-99), 2,320 ft^3/s May 20, 1975, gage height, 14.07 ft; no flow for long periods most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since 1899, 5,080 ft^3/s Feb. 11, 1962, from estimate based on field survey, gage height, 15.0 ft from floodmarks; stream reported practically dry during summers of 1899 and 1934.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 885 ft^3/s May 6; no flow for long periods.

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	403	416	.00	.00	.00	.00	.00	595	448	189	95	63
2	402	415	.00	.00	.00	.00	.00	597	533	190	90	63
3	401	413	.00	.00	.00	.00	.00	718	534	191	86	63
4	400	459	.00	.00	.00	.00	.00	787	533	191	86	63
5	406	616	.00	.00	.00	.00	.00	851	533	191	80	63
6	417	613	.00	.00	.00	.00	.00	885	534	181	76	64
7	416	603	.00	.00	.00	.00	.00	882	533	171	76	64
8	415	597	.00	.00	.00	.00	.00	879	534	158	76	64
9	413	594	.00	.00	.00	.00	.00	877	533	154	76	64
10	413	589	.00	.00	.00	.00	.00	745	534	154	76	64
11	412	582	.00	.00	.00	.00	.00	540	533	155	76	65
12	410	578	.00	.00	.00	.00	.00	486	534	155	76	65
13	408	225	.00	.00	.00	.00	.00	487	533	156	76	160
14	415	.00	.00	.00	.00	.00	.00	488	421	131	76	213
15	417	.00	.00	.00	.00	.00	.00	490	347	110	76	375
16	416	.00	.00	.00	.00	.00	.00	490	347	107	76	422
17	415	.00	.00	.00	.00	.00	.00	490	316	107	76	420
18	413	.00	.00	.00	.00	.00	.00	361	299	107	75	418
19	412	.00	.00	.00	.00	.00	.00	291	299	107	66	417
20	417	.00	.00	.00	.00	.00	148	292	300	107	64	415
21	417	.00	.00	.00	.00	.00	202	293	300	108	64	414
22	416	.00	.00	.00	.00	.00	205	294	300	107	63	412
23	416	.00	.00	.00	.00	.00	205	295	293	107	63	411
24	414	.00	.00	.00	.00	.00	205	247	279	108	63	411
25	413	.00	.00	.00	.00	.00	206	200	265	107	63	408
26	411	.00	.00	.00	.00	.00	272	201	258	107	63	404
27	409	.00	.00	.00	.00	.00	376	201	259	98	63	402
28	419	.00	.00	.00	.00	.00	448	269	223	96	63	411
29	421	.00	.00	.00	---	.00	540	334	203	95	63	413
30	420	.00	.00	.00	---	.00	593	350	196	95	63	411
31	418	---	.00	.00	---	.00	---	351	---	95	63	---
TOTAL	12795	6700.00	0.00	0.00	0.00	0.00	3400.00	15266	11754	4135	2248	7702
MEAN	413	223	.000	.000	.000	.000	113	492	392	133	72.5	257
MAX	421	616	.00	.00	.00	.00	593	885	534	191	95	422
MIN	400	.00	.00	.00	.00	.00	.00	200	196	95	63	63
AC-FT	25380	13290	.00	.00	.00	.00	6740	30280	23310	8200	4460	15280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1974, BY WATER YEAR (WY) (UNREGULATED)

MEAN	50.0	53.6	49.0	58.5	64.3	102	401	851	358	111	48.4	42.3
MAX	92.6	81.4	91.6	160	155	274	750	2133	1325	313	117	73.1
(WY)	1973	1973	1965	1969	1963	1972	1919	1917	1917	1917	1917	1917
MIN	20.5	30.4	25.3	25.4	35.0	35.5	124	234	85.9	35.3	12.5	16.6
(WY)	1964	1967	1970	1963	1904	1964	1970	1966	1924	1919	1966	1924

SUMMARY STATISTICS — [a] WATER YEARS 1903 - 1974

ANNUAL MEAN	176	
HIGHEST ANNUAL MEAN	280	1971
LOWEST ANNUAL MEAN	88.0	1963
HIGHEST DAILY MEAN	4200	May 15 1917
LOWEST DAILY MEAN	1.2	Aug 12 1974
ANNUAL SEVEN-DAY MINIMUM	4.3	Aug 7 1974
ANNUAL RUNOFF (AC-FT)	127700	
10 PERCENT EXCEEDS	546	
50 PERCENT EXCEEDS	66	
90 PERCENT EXCEEDS	32	

WILLOW CREEK BASIN

13058000 WILLOW CREEK NEAR RIRIE, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1999, BY WATER YEAR (WY) (REGULATED, UNADJUSTED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	186	56.9	14.7	6.46	13.2	45.5	93.4	353	221	93.6	140	273
MAX	443	223	116	51.9	67.5	360	434	1360	824	340	670	610
(WY)	1998	1999	1996	1975	1978	1986	1976	1997	1975	1976	1994	1993
MIN	18.4	.000	.000	.000	.000	.000	.000	29.5	30.5	28.6	25.1	17.7
(WY)	1978	1992	1986	1986	1987	1987	1988	1977	1978	1978	1977	1977

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		[b] WATER YEARS 1975 - 1999	
ANNUAL TOTAL	71062.00		64000.00			
ANNUAL MEAN	195		175		125	
HIGHEST ANNUAL MEAN					295	1997
LOWEST ANNUAL MEAN					38.7	1977
HIGHEST DAILY MEAN	745	May 24	885	May 6	2290	May 20 1975
LOWEST DAILY MEAN	.00	Jan 1	.00	Nov 14	.00	Nov 22 1985
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Nov 14	.00	Nov 22 1985
ANNUAL RUNOFF (AC-FT)	141000		126900		90700	
10 PERCENT EXCEEDS	507		489		407	
50 PERCENT EXCEEDS	95		75		37	
90 PERCENT EXCEEDS	.00		.00		.00	

a Unregulated
b Regulated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1989 to September 1990, October 1992 to September 1993, October 1995 to September 1996, April to October 1999 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July 2 to September 6, 1996, May 1 to September 30, 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 16.0 °C Sep. 25, 1999.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 16.0 °C Sep. 25.

WATER-QUALITY DATA, APRIL 1999 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)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
28...	1015	415	475	8.6	7.0	5.5	2.3	11.0	106	<1	K5
MAY											
25...	1345	200	439	8.5	24.0	7.3	10	10.7	106	<1	<1
JUN											
22...	1310	301	422	8.5	19.5	8.1	2.9	11.0	112	<1	K2
AUG											
05...	0855	77	425	8.1	20.0	8.9	--	10.2	106	K2	K3
SEP											
28...	1445	413	415	8.3	10.5	14.1	1.4	8.8	102	<1	<1
OCT											
12...	0950	408	418	8.5	16.0	13.5	1.4	9.5	109	<1	K2

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
28...	190	51	16	12	12	1.9	220	0

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
28...	183	13	16	.17	7.3	227	.31	254

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 TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
28...	<.010	.110	<.020	.37	<.050	.016	4	4.5
MAY								
25...	<.010	.077	.095	.56	.057	<.010	8	4.3
JUN								
22...	<.010	.065	.080	.37	E.030	.021	1	.81
AUG								
05...	<.010	.230	<.020	.24	.052	.048	2	.42
SEP								
28...	<.010	<.050	.044	.50	.058	.032	3	3.3
OCT								
12...	<.010	<.050	<.020	.20	E.036	.012	3	3.3

E Positive detection, but below stated detection limits.
K Results based on counts outside ideal colony range.

WILLOW CREEK BASIN

13058000 WILLOW CREEK NEAR RIRIE, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	6.7	6.1	6.3
2	---	---	---	7.0	6.4	6.6
3	---	---	---	7.0	6.7	6.9
4	---	---	---	7.2	6.9	7.0
5	---	---	---	7.0	6.6	6.8
6	---	---	---	6.9	6.7	6.8
7	---	---	---	7.3	6.6	6.9
8	---	---	---	7.5	6.6	6.9
9	---	---	---	7.8	6.9	7.6
10	---	---	---	7.6	6.7	6.9
11	---	---	---	7.5	6.6	6.9
12	---	---	---	7.8	6.9	7.5
13	---	---	---	8.1	7.0	7.5
14	---	---	---	7.8	7.0	7.5
15	---	---	---	7.6	6.9	7.2
16	---	---	---	7.6	7.0	7.3
17	---	---	---	7.5	7.0	7.3
18	---	---	---	7.6	7.2	7.3
19	---	---	---	7.5	7.2	7.3
20	---	---	---	7.6	7.2	7.4
21	---	---	---	7.6	7.3	7.5
22	---	---	---	7.8	7.2	7.5
23	---	---	---	7.9	7.2	7.5
24	---	---	---	7.8	7.3	7.6
25	---	---	---	8.1	7.3	7.7
26	---	---	---	8.1	7.3	7.6
27	---	---	---	8.1	7.3	7.6
28	---	---	---	8.1	7.2	7.6
29	---	---	---	7.8	7.5	7.6
30	---	---	---	7.8	7.5	7.6
31	---	---	---	7.8	7.5	7.7
MONTH	---	---	---	8.1	6.1	7.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.9	7.5	7.7	9.2	8.3	8.6	10.4	9.0	9.6	12.6	9.6	10.6
2	7.9	7.6	7.8	9.2	8.3	8.6	11.0	9.0	9.6	11.8	10.0	10.6
3	7.9	7.6	7.8	9.0	8.4	8.7	10.4	9.3	9.8	11.7	9.6	10.4
4	7.9	7.6	7.8	9.2	8.4	8.7	10.9	9.3	9.7	12.0	10.0	10.6
5	7.9	7.6	7.8	9.0	8.6	8.7	10.7	9.2	9.8	12.4	10.0	10.7
6	8.1	7.8	7.9	9.5	8.6	8.8	10.7	9.5	9.9	12.9	9.8	10.8
7	7.9	7.8	7.9	9.3	8.6	8.8	11.4	9.3	10.0	12.4	9.6	10.4
8	8.1	7.8	7.9	9.2	8.6	8.8	12.1	9.3	10.2	12.3	9.8	10.6
9	8.1	7.8	8.0	9.5	8.6	8.9	11.4	9.6	10.1	12.3	10.0	10.6
10	8.1	7.9	8.0	9.5	8.6	8.9	10.3	9.3	9.8	12.1	10.1	10.7
11	8.3	7.9	8.1	9.6	8.7	9.0	10.4	9.3	9.9	12.1	10.0	10.7
12	8.3	7.9	8.1	9.8	8.6	9.0	11.4	9.6	10.2	12.3	9.8	10.6
13	8.3	7.9	8.1	9.5	8.7	9.0	12.0	9.6	10.3	11.2	9.8	10.5
14	8.3	7.9	8.2	9.6	8.7	9.1	11.8	9.6	10.3	11.4	10.6	10.9
15	8.4	7.9	8.2	10.1	8.6	9.2	12.1	9.8	10.5	11.5	10.7	11.3
16	8.3	7.8	8.2	9.6	8.7	9.0	11.8	9.5	10.2	11.7	11.2	11.4
17	8.4	7.9	8.1	9.6	8.9	9.1	11.8	9.8	10.5	11.8	11.4	11.6
18	8.4	7.9	8.2	10.3	8.9	9.4	11.5	9.8	10.4	12.0	11.5	11.7
19	8.4	8.1	8.2	10.0	8.7	9.3	12.6	10.1	10.8	12.3	11.7	11.9
20	8.4	8.1	8.2	9.5	8.7	9.2	12.9	10.0	10.9	12.3	11.7	12.1
21	8.6	7.9	8.3	10.0	8.9	9.4	13.4	10.3	11.2	12.6	12.0	12.3
22	8.4	8.1	8.3	10.0	8.9	9.3	13.4	9.8	11.0	12.8	12.1	12.4
23	8.4	8.1	8.3	9.8	9.0	9.4	12.0	10.1	10.7	13.1	12.4	12.7
24	8.6	8.1	8.3	10.1	9.0	9.5	12.3	10.1	10.7	14.1	12.8	13.5
25	8.9	8.1	8.4	10.1	8.9	9.4	13.2	10.1	11.1	16.0	13.1	14.6
26	8.4	8.1	8.3	10.1	9.2	9.5	12.6	10.1	10.8	14.6	13.4	13.9
27	8.7	8.1	8.4	10.0	9.2	9.4	11.5	10.1	10.5	14.3	13.8	14.0
28	8.7	8.3	8.4	10.4	9.0	9.4	13.4	10.3	11.1	14.6	14.1	14.4
29	9.0	8.3	8.5	10.3	9.2	9.6	13.1	10.1	11.0	14.6	14.3	14.5
30	9.0	8.1	8.5	10.4	9.2	9.6	11.8	10.4	10.7	14.8	14.5	14.6
31	---	---	---	10.1	9.0	9.6	12.6	9.6	10.6	---	---	---
MONTH	9.0	7.5	8.1	10.4	8.3	9.1	13.4	9.0	10.4	16.0	9.6	11.9

WILLOW CREEK BASIN

13058510 SAND CREEK ABOVE WILLOW CREEK DIVERSION, NEAR UCON, ID

LOCATION.--Lat 43°34'16", long 111°53'44", in NE¼SW¼ sec.20, T.3 N., R.39 E., Bonneville County, Hydrologic Unit 17040201, on right bank about 300 ft downstream from Sand Creek control gates, about 0.6 mi east of U.S. Highway 26 crossing with Willow Creek, and 3.3 mi southeast of Ucon.

PERIOD OF RECORD.--March 1978 to September 1979, October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,850 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow controlled by headgates. Water is diverted during the irrigation season from the Snake River through Eagle Rock Canal to Willow Creek 5.5 mi upstream from the station. About 158,600 acre-ft was diverted into the creek during 1998 irrigation season. Diversions below Ririe Lake (13057950) and above station for irrigation of about 1,500 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 797 ft³/s June 13, 1996; no flow for long periods.

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	221	95	.00	.00	.00	.00	.00	84	319	602	471	391
2	211	65	.00	.00	.00	.00	.00	67	318	595	461	368
3	192	3.9	.00	.00	.00	.00	.00	64	320	593	444	327
4	191	2.6	.00	.00	.00	.00	.00	61	325	591	444	310
5	190	2.8	.00	.00	.00	.00	.00	55	326	586	428	301
6	190	3.0	.00	.00	.00	.00	.00	109	316	586	439	298
7	189	1.1	.00	.00	.00	.00	.00	135	255	596	418	310
8	182	1.1	.00	.00	.00	.00	.00	146	262	644	384	322
9	178	.28	.00	.00	.00	.00	.00	147	266	680	373	336
10	176	.31	.00	.00	.00	.00	.00	144	281	702	363	364
11	165	.00	.00	.00	.00	.00	.00	154	288	670	357	372
12	163	.00	.00	.00	.00	.00	.00	167	297	666	359	373
13	158	.00	.00	.00	.00	.00	.00	177	361	654	333	374
14	149	.00	.00	.00	.00	.00	.00	179	418	633	322	374
15	143	.00	.00	.00	.00	.00	.00	170	465	626	325	377
16	132	.00	.00	.00	.00	.00	.00	171	524	597	321	394
17	125	.00	.00	.00	.00	.00	.00	173	588	580	318	422
18	116	.00	.00	.00	.00	.00	.00	179	623	583	316	422
19	111	.00	.00	.00	.00	.00	.00	186	637	565	317	420
20	105	.00	.00	.00	.00	.00	.00	187	636	550	319	419
21	96	.00	.00	.00	.00	.00	.00	208	637	528	319	420
22	97	.00	.00	.00	.00	.00	.00	225	637	513	340	420
23	99	.00	.00	.00	.00	.00	.00	226	633	516	349	408
24	98	.00	.00	.00	.00	.00	.00	246	636	519	348	405
25	98	.00	.00	.00	.00	.00	.00	263	655	530	349	422
26	97	.00	.00	.00	.00	.00	14	265	679	530	349	392
27	97	.00	.00	.00	.00	.00	103	282	677	520	355	356
28	97	.00	.00	.00	.00	.00	113	339	637	526	360	349
29	96	.00	.00	.00	---	.00	98	321	609	540	362	352
30	95	.00	.00	.00	---	.00	94	316	604	524	374	343
31	95	---	.00	.00	---	.00	---	322	---	489	393	---
TOTAL	4352	175.09	0.00	0.00	0.00	0.00	422.00	5768	14229	18034	11410	11141
MEAN	140	5.84	.000	.000	.000	.000	14.1	186	474	582	368	371
MAX	221	95	.00	.00	.00	.00	113	339	679	702	471	422
MIN	95	.00	.00	.00	.00	.00	.00	55	255	489	316	298
AC-FT	8630	347	.00	.00	.00	.00	837	11440	28220	35770	22630	22100

CAL YR 1998 TOTAL 68397.09 MEAN 187 MAX 641 MIN .00 AC-FT 135700
WTR YR 1999 TOTAL 65531.09 MEAN 180 MAX 702 MIN .00 AC-FT 130000

WILLOW CREEK BASIN

13058520 WILLOW CREEK FLOODWAY CHANNEL NEAR UCON, ID

LOCATION.--Lat 43°34'35", long 111°54'40", SW¼NE¼ sec.19, T.3 N., R.39 E., Bonneville County, Hydrologic Unit 17040201, on right bank 300 ft below Willow Creek floodway channel diversion structure, 2 mi southeast of Ucon.

PERIOD OF RECORD.--April 1978 to September 1979, October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,840 ft above sea level, from topographic map.

REMARKS.--Records good. Flow controlled by headgates. Floodway channel built to carry excess flow from Willow Creek and Sand Creek during periods of flooding.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,030 ft³/s Feb. 11, 1979; no flow for long periods.

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	392	393	.00	.00	.00	.00	.00	540	414	1.6	8.2	28
2	402	401	.00	.00	.00	.00	.00	541	471	1.6	9.0	40
3	413	372	.00	.00	.00	.00	.00	585	488	.64	9.0	43
4	419	373	.00	.00	.00	.00	.00	669	487	.06	16	18
5	422	545	.00	.00	.00	.00	.00	681	492	1.4	22	24
6	416	555	.00	.00	.00	.00	.00	726	511	.04	18	36
7	410	551	.00	.00	.00	.00	.00	727	561	.02	20	26
8	398	546	.00	.00	.00	.00	.00	722	553	.03	23	26
9	401	542	.00	.00	.00	.00	.00	727	548	3.4	28	24
10	399	538	.00	.00	.00	.00	.00	686	540	.47	23	15
11	390	536	.00	.00	.00	.00	.00	461	528	.48	14	5.9
12	e380	532	.00	.00	.00	.00	.00	386	497	.45	24	21
13	e380	366	.00	.00	.00	.00	.00	387	433	.44	41	73
14	e380	11	.00	.00	.00	.00	.00	402	309	1.1	54	154
15	393	4.1	.00	.00	.00	.00	.00	393	198	7.8	62	245
16	390	2.5	.00	.00	.00	1.3	.00	394	131	30	64	337
17	377	1.6	.00	.00	.00	.69	.00	394	76	44	54	323
18	387	1.1	.00	.00	.00	.28	.00	298	45	41	30	343
19	396	.52	.00	.00	.00	6.5	.00	162	39	31	11	348
20	404	.19	.00	.00	.00	13	29	155	44	15	5.9	340
21	423	.02	.00	.00	.00	22	173	197	30	25	13	335
22	423	.00	.00	.00	.00	7.5	181	170	32	26	35	337
23	426	.00	.00	.00	.00	.99	182	181	26	18	15	360
24	423	.00	.00	.00	.00	1.2	182	155	17	14	11	367
25	425	.00	.00	.00	.00	2.3	183	153	70	6.6	2.9	367
26	423	.00	.00	.00	.00	1.7	256	205	63	.30	5.2	414
27	422	.00	.00	.00	.00	.03	346	190	70	.28	19	467
28	425	.00	.00	.00	.00	.00	383	217	57	.24	13	412
29	427	.00	.00	.00	---	.00	450	352	16	.23	4.8	391
30	427	.00	.00	.00	---	.00	558	415	4.0	.21	17	398
31	426	---	.00	.00	---	.00	---	443	---	5.5	27	---
TOTAL	12619	6271.03	0.00	0.00	0.00	57.49	2923.00	12714	7750.0	276.89	699.0	6317.9
MEAN	407	209	.000	.000	.000	1.85	97.4	410	258	8.93	22.5	211
MAX	427	555	.00	.00	.00	22	558	727	561	44	64	467
MIN	377	.00	.00	.00	.00	.00	.00	153	4.0	.02	2.9	5.9
AC-FT	25030	12440	.00	.00	.00	114	5800	25220	15370	549	1390	12530

CAL YR 1998 TOTAL 53060.20 MEAN 145 MAX 637 MIN .00 AC-FT 105200
WTR YR 1999 TOTAL 49628.31 MEAN 136 MAX 727 MIN .00 AC-FT 98440

e Estimated

WILLOW CREEK BASIN

13058529 WILLOW CREEK FLOODWAY CHANNEL AT MOUTH NEAR IDAHO FALLS, ID

LOCATION.--Lat 43°37'30", long 112°04'32", NE¼ NW¼ SE¼ sec.24, T.3 N., R.37 E., Bonneville County, Hydrologic Unit 17040201, on left bank 40 ft upstream from mouth, and 4.5 mi north of Idaho Falls.

PERIOD OF RECORD.--October 1987 to current year. Published 1988-91 as station number 13058549.

GAGE.--Water-stage recorder. Elevation of gage is 4,745 ft above sea level, from topographic map. October 1987 to April 14, 1988 at datum 10.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow controlled by headgates. Floodway channel built to carry excess flow from Willow Creek and Sand Creek during periods of flooding.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 913 ft^3/s May 11, 1997; no flow for long periods.

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	405	384	8.4	.00	.00	.00	.00	567	456	4.5	7.6	38
2	396	389	8.4	.00	.00	.00	.00	569	500	5.5	11	58
3	392	371	8.3	.00	.00	.00	.00	608	521	6.7	12	59
4	395	363	8.3	.00	.00	.00	.00	702	530	5.5	15	29
5	405	509	4.5	.00	.00	.00	.00	715	548	7.9	23	26
6	414	528	2.7	.00	.00	.00	.00	766	559	5.9	19	35
7	418	521	1.2	.00	.00	.00	.00	770	614	3.0	21	30
8	414	519	.50	.00	.00	.00	.00	764	597	2.4	20	18
9	408	513	.07	.00	.00	.00	.00	776	589	4.7	29	22
10	400	526	.00	.00	.00	.00	.00	751	578	2.4	35	30
11	400	522	.00	.00	.00	.00	.00	510	572	2.4	30	16
12	403	518	.00	.00	.00	.00	.00	417	534	4.4	35	19
13	398	387	.00	.00	.00	.00	.00	413	470	4.4	54	78
14	413	27	.00	.00	.00	.00	.00	431	361	5.5	72	181
15	411	16	.00	.00	.00	.00	.00	417	231	10	82	243
16	416	14	.00	.00	.00	.00	.00	428	159	22	81	355
17	398	13	.00	.00	.00	.00	.00	414	92	52	70	351
18	404	13	.00	.00	.00	.00	.00	333	51	49	43	366
19	418	13	.00	.00	.00	.00	.00	183	48	41	21	375
20	423	11	.00	.00	.00	.00	6.2	166	52	22	19	369
21	427	11	.00	.00	.00	14	172	219	58	21	18	360
22	417	11	.00	.00	.00	11	184	204	44	30	46	360
23	419	8.8	.00	.00	.00	.63	185	193	40	15	22	375
24	418	8.6	.00	.00	.00	.00	184	185	37	19	15	378
25	411	8.4	.00	.00	.00	.00	183	178	82	7.5	8.0	380
26	407	8.4	.00	.00	.00	.00	246	247	80	6.6	8.9	434
27	407	8.4	.00	.00	.00	.00	359	227	83	3.9	28	505
28	411	8.4	.00	.00	.00	.00	404	248	78	3.1	41	454
29	412	8.4	.00	.00	---	.00	470	370	23	2.0	14	423
30	409	8.4	.00	.00	---	.00	581	454	13	6.6	31	419
31	405	---	.00	.00	---	.00	---	494	---	3.3	39	---
TOTAL	12674	6246.8	42.37	0.00	0.00	25.63	2974.20	13719	8600	379.2	970.5	6786
MEAN	409	208	1.37	.000	.000	.83	99.1	443	287	12.2	31.3	226
MAX	427	528	8.4	.00	.00	14	581	776	614	52	82	505
MIN	392	8.4	.00	.00	.00	.00	.00	166	13	2.0	7.6	16
AC-FT	25140	12390	84	.00	.00	51	5900	27210	17060	752	1920	13460

CAL YR 1998 TOTAL 55456.44 MEAN 152 MAX 704 MIN .00 AC-FT 110000
WTR YR 1999 TOTAL 52417.70 MEAN 144 MAX 776 MIN .00 AC-FT 104000

WILLOW CREEK BASIN

13058530 WILLOW CREEK BELOW FLOODWAY CHANNEL, NEAR UCON, ID

LOCATION.--Lat 43°34'30", long 111°54'30", SE¼ sec.19, T.3 N., R.39 E., Bonneville County, Hydrologic Unit 17040201, on left bank 100 ft below outlet diversion structure and 2.0 mi southeast of Ucon.

PERIOD OF RECORD.--December 1977 to September 1979, October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,840 ft above sea level, from topographic map. Prior to Oct. 1, 1990, at datum 3.0 ft lower.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow controlled by headgates. Water is diverted during the irrigation season from the Snake River through the Eagle Rock Canal to Willow Creek about 6.5 mi upstream from the station; about 158,600 acre-ft diverted into the creek during 1998 irrigation season. Diversions below Ririe Lake (13057950) and above station for irrigation of about 1,500 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 279 ft^3/s Feb. 11, 1979; no flow for long periods.

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	16	.00	.00	.00	.00	.00	21	79	193	150	156
2	39	7.3	.00	.00	.00	.00	.00	22	85	183	150	158
3	39	1.7	.00	.00	.00	.00	.00	23	92	194	150	158
4	39	1.6	.00	.00	.00	.00	.00	25	92	187	140	157
5	38	1.4	.00	.00	.00	.00	.00	43	92	194	131	156
6	38	.66	.00	.00	.00	.00	.00	49	92	186	132	139
7	38	.00	.00	.00	.00	.00	.00	45	92	188	131	128
8	38	.00	.00	.00	.00	.00	.00	45	98	191	132	128
9	38	.00	.00	.00	.00	.00	.00	45	119	182	132	129
10	38	.05	.00	.00	.00	.00	.00	43	126	183	139	127
11	37	.46	.00	.00	.00	.00	.00	36	126	195	154	130
12	37	.68	.00	.00	.00	.00	.00	33	126	183	146	131
13	37	.77	.00	.00	.00	.00	.00	33	126	173	134	132
14	37	.22	.00	.00	.00	.00	.00	34	132	191	133	130
15	37	.00	.00	.00	.00	.00	.00	33	155	208	134	129
16	36	.00	.00	.00	.00	.00	.00	34	173	200	118	132
17	36	.00	.00	.00	.00	.00	.00	34	181	195	107	140
18	36	.00	.00	.00	.00	.00	.00	52	180	196	106	146
19	34	.00	.00	.00	.00	.00	.00	73	180	199	106	146
20	23	.00	.00	.00	.00	.00	.00	76	179	197	106	145
21	16	.00	.00	.00	.00	.00	.00	76	184	195	106	146
22	16	.00	.00	.00	.00	.00	.00	75	195	197	106	147
23	16	.00	.00	.00	.00	.00	.00	74	195	197	125	147
24	17	.00	.00	.00	.00	.00	.00	74	196	197	136	153
25	16	.00	.00	.00	.00	.00	.00	80	185	193	135	148
26	16	.00	.00	.00	.00	.00	.00	92	180	188	135	136
27	16	.00	.00	.00	.00	.00	.00	104	181	188	136	107
28	16	.00	.00	.00	.00	.00	.00	113	180	177	140	113
29	16	.00	.00	.00	---	.00	24	92	185	170	148	114
30	16	.00	.00	.00	---	.00	21	85	196	164	156	99
31	16	---	.00	.00	---	.00	---	84	---	155	157	---
TOTAL	911	30.84	0.00	0.00	0.00	0.00	45.00	1748	4402	5839	4111	4107
MEAN	29.4	1.03	.000	.000	.000	.000	1.50	56.4	147	188	133	137
MAX	39	16	.00	.00	.00	.00	24	113	196	208	157	158
MIN	16	.00	.00	.00	.00	.00	.00	21	79	155	106	99
AC-FT	1810	61	.00	.00	.00	.00	89	3470	8730	11580	8150	8150

CAL YR 1998 TOTAL 19730.04 MEAN 54.1 MAX 217 MIN .00 AC-FT 39130
WTR YR 1999 TOTAL 21193.84 MEAN 58.1 MAX 208 MIN .00 AC-FT 42040

SNAKE RIVER MAIN STEM

13060000 SNAKE RIVER NEAR SHELLEY, ID

LOCATION.--Lat 43°24'47", long 112°08'02", in SE¼SW¼ sec.17, T.1 N., R.37 E., Bingham County, Hydrologic Unit 17040201, on right bank 0.3 mi southeast of Woodville, 2.5 mi north of Shelley, and at mile 787.8.

DRAINAGE AREA.--9,790 mi^2, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--March 1915 to current year (prior to October 1931, irrigation seasons only).

REVISED RECORDS.--WSP 1317: 1916.

GAGE.--Water-stage recorder. Datum of gage is 4,599.0 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Some regulation by Jackson Lake, Palisades Reservoir, Island Park Reservoir, Henrys Lake (sta 13039000), and Grassy Lake. Initial filling of forebay pool at Gem Power plant 2 mi upstream, occurred during March and April of 1988. Diversions above station for irrigation of about 39,000 acres below and about 637,000 acres above station, of which about 100,000 acres are irrigated by withdrawals from ground water (1966 determination). Considerable water leaks above station into Snake River Plain aquifer.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,300 ft^3/s June 6, 1976, gage height, 19.12 ft, result of Teton Dam failure. Maximum discharge excluding 1976, 47,800 ft^3/s June 17, 1997, gage height, 16.05 ft; maximum gage height, 16.97 ft, June 17, 1918; minimum, 288 ft^3/s Nov. 5, 1934, gage height, 2.22 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 6, 1894, reached an estimated discharge of 75,000 ft^3/s at former station (13059000) at Eagle Rock (now Idaho Falls), 7 mi upstream from present site.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,000 ft^3/s June 3, gage height, 12.46 ft; minimum, 1,970 ft^3/s Dec. 20, gage height, 5.09 ft, result of power plant shutdown at Gem State Dam; minimum daily, 2,800 ft^3/s Dec. 23.

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	5130	5510	5600	4990	e6300	7430	12900	13300	25900	9330	6960	5840
2	5110	5630	5500	5070	7050	7660	12800	14100	27500	7920	7400	6250
3	4980	5780	5490	4900	7010	7620	12800	15400	27500	7530	7420	6100
4	4950	5740	5490	4840	6860	7690	12700	15900	27100	7420	7310	5840
5	5000	5790	5510	4750	6740	7600	12800	15600	27300	7510	7050	5590
6	5110	5860	5520	4760	6900	7660	12900	14600	27100	7400	6920	5520
7	5120	5880	5310	4770	7090	7130	12900	14700	26400	6920	6660	5340
8	5110	5820	5300	4780	7490	6640	12800	15200	25600	7240	5990	5300
9	4960	5860	5350	4780	7480	6280	12400	16000	25500	7280	5910	5290
10	4720	5820	5200	4810	7500	6140	12100	16700	25100	7230	5590	5280
11	4510	5800	4860	4790	7440	6330	11700	16700	24000	7150	5270	5160
12	4470	5790	5140	4790	7290	7720	11400	16500	22500	6910	5450	5000
13	4440	5830	5240	4830	7320	8550	11300	16500	21300	6430	5990	4950
14	4380	5230	5130	4770	7430	9430	10500	16300	20500	6280	6310	5070
15	4390	5290	5100	4780	7440	10400	10600	16400	19200	6280	6260	5010
16	4360	5260	5040	4860	7480	11400	10700	16500	18900	6480	6240	5080
17	4190	5240	5020	4930	7420	12300	10700	16200	18900	6440	5890	5040
18	4310	5310	5000	4820	7430	12400	10400	15600	19000	6580	5340	4880
19	4430	5370	e4200	4800	7460	12500	10500	15000	19000	6630	5030	4840
20	4490	5210	e3600	4780	7390	12600	10700	14800	19600	6140	4840	4800
21	4550	5240	e3100	4850	7360	12600	11200	14800	19600	5720	4690	4740
22	4610	5330	e2900	4850	7410	12900	11300	15100	19500	5500	4990	4730
23	4710	5570	e2800	5070	7380	12900	11200	15700	19600	5390	5210	4790
24	4880	5620	e3000	5210	7410	12800	10800	16300	20000	5470	4990	4810
25	5000	5640	e3800	5220	7470	12800	10700	17000	20000	5800	4800	5020
26	5110	5580	e4200	5070	7460	12900	10700	18200	19600	5830	4730	5410
27	5100	5500	e4800	5470	7490	13200	10900	19900	18500	5530	4610	5580
28	5030	5440	e5000	e5600	7420	13300	11200	20800	17200	5220	4550	5500
29	4940	5460	5020	e5600	---	13100	11800	21300	14600	5320	4550	5270
30	4920	5510	4870	e5500	---	12900	12500	22700	11800	5670	4710	5220
31	5150	---	4950	e5500	---	12800	---	24400	---	6280	5280	---
TOTAL	148160	166910	147040	154540	203920	317680	347900	518200	648300	202830	176940	157250
MEAN	4779	5564	4743	4985	7283	10250	11600	16720	21610	6543	5708	5242
MAX	5150	5880	5600	5600	7500	13300	12900	24400	27500	9330	7420	6250
MIN	4190	5210	2800	4750	6300	6140	10400	13300	11800	5220	4550	4730
AC-FT	293900	331100	291700	306500	404500	630100	690100	1028000	1286000	402300	351000	311900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1999, BY WATER YEAR (WY)

MEAN	3150	3540	3647	3570	3819	4767	7652	12760	13490	7459	4772	3713
MAX	9465	7841	8334	8210	11460	15150	19620	28240	34380	19650	9073	7682
(WY)	1972	1984	1984	1984	1997	1997	1986	1928	1997	1917	1997	1971
MIN	646	827	1584	1515	1599	1401	1559	3261	2432	2213	1342	1119
(WY)	1932	1935	1935	1932	1932	1934	1934	1931	1934	1934	1919	1934

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1915 - 1999	
ANNUAL TOTAL	3098640		3189670			
ANNUAL MEAN	8489		8739		6029	
HIGHEST ANNUAL MEAN					12330	1997
LOWEST ANNUAL MEAN					1998	1934
HIGHEST DAILY MEAN	20800	May 28	27500	Jun 2	50500	Jun 7 1976
LOWEST DAILY MEAN	2800	Dec 23	2800	Dec 23	350	Nov 5 1934
ANNUAL SEVEN-DAY MINIMUM	3340	Dec 19	3340	Dec 19	412	Nov 2 1934
ANNUAL RUNOFF (AC-FT)	6146000		6327000		4367000	
10 PERCENT EXCEEDS	17000		16700		14200	
50 PERCENT EXCEEDS	6180		6100		4360	
90 PERCENT EXCEEDS	4930		4780		2200	

e Estimated

SNAKE RIVER MAIN STEM

13062500 SNAKE RIVER AT BLACKFOOT, ID

LOCATION.--Lat 43°11'50", long 112°22'05", in SE¼SW¼ sec.33, T.2 S., R.35 E., Bingham County, Hydrologic Unit 17040206, on left bank immediately upstream from old Riverside Highway bridge, 0.25 mi downstream from new U.S. Highway 26 bridge, 1.2 mi west of Blackfoot, and at mile 764.3.

DRAINAGE AREA.--9,950 mi^2.

PERIOD OF RECORD.--August 1978 to current year. Records for May 1924 to September 1932 at site downstream, published as "Snake River below Blackfoot Bridge, near Blackfoot", are not equivalent because diversions were not included.

GAGE.--Water-stage recorder. Elevation of gage is 4,490 ft above sea level, from topographic map. May 1924 to Sept. 1932, water-stage recorder at site downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Jackson Lake, Palisades Reservoir, Henrys Lake, Island Park Reservoir, and Grassy Lake, having a combined capacity of 2,570,000 acre-ft. Diversions above station for irrigation of about 750,000 acres. Considerable water leaks above the station into the Snake River Plain aquifer.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,200 ft^3/s June 17, 1997, gage height, 13.55 ft; maximum gage height, 14.71 ft, Feb. 7, 1985, result of backwater from ice; minimum, 2.7 ft^3/s Apr. 29, 1992, gage height, 0.91 ft, caused by irrigation diversions.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,200 ft^3/s June 6, gage height, 10.74 ft; minimum, 1,810 ft^3/s Aug. 28, gage height, 4.70 ft.

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	3400	4710	5210	e4700	e6200	7660	13300	12100	22800	7990	4530	3210
2	3400	4910	5220	e4400	e6800	7840	13300	12900	24700	5850	5190	3810
3	3360	5070	5070	e4100	e6700	7780	13300	14000	25500	5110	5310	3920
4	3310	5150	5150	e4200	6670	7780	13200	14800	25300	4850	4830	3680
5	3380	5160	e5100	e4300	6540	7740	13300	14800	25500	5090	4590	3350
6	3520	5200	e5000	e4200	6620	7770	13400	13900	25700	5050	4370	3320
7	3590	5230	e4800	e4200	6840	7370	13400	13600	25200	4290	4200	3140
8	3620	5230	e4800	e4200	7290	6790	13200	13900	24400	4130	3570	3010
9	3520	5240	e4700	4160	7360	6410	12700	14400	23900	4260	3300	3040
10	3320	5190	e4600	4210	7410	6120	12300	15300	23700	4300	3090	2940
11	3170	5190	e4300	4190	7340	6050	11800	15500	22800	4280	2710	2750
12	3030	5190	e4400	4210	7390	7540	11400	15200	21200	4220	2760	2600
13	3050	5240	e4500	4250	7350	8480	11200	15100	19900	3820	3310	2510
14	3040	4820	e4500	4170	7380	9390	10600	14900	19100	3470	3930	2550
15	3110	4750	e4500	4220	7390	10400	10400	14900	17500	3400	3900	2550
16	3310	4810	e4500	4270	7470	11500	10400	15100	17000	3610	3930	2630
17	3430	4820	e4400	4330	7440	12700	10400	14800	16900	3740	3700	2620
18	3500	4860	e4200	4280	7470	12800	10200	14400	17000	3910	3020	2460
19	3540	4930	e3600	4210	7490	12800	10200	13800	16900	4070	2500	2440
20	3650	4770	e3000	4250	7460	13000	10400	13300	17300	3650	2320	2370
21	3640	4800	e2800	4260	7410	13100	10800	12900	17800	3130	2090	2310
22	3750	4900	e2700	4310	7500	13300	10800	12800	17500	2870	2250	2270
23	3900	5080	e2600	4450	7470	13300	10600	13100	17600	2760	2520	2360
24	4030	5170	e2700	4710	7500	13300	10200	13700	17800	2770	2460	2390
25	4200	5270	e2800	4720	7640	13300	9920	14000	17800	3120	2340	2600
26	4300	5180	e3600	4650	7620	13400	9870	14700	17500	3420	2190	3300
27	4370	5130	e4200	4950	7720	13800	10000	16200	16500	3340	2090	3390
28	4320	5080	e4600	e5500	7630	13900	10200	17200	15500	3090	2000	3510
29	4250	5070	e4800	e5400	---	13600	10700	17700	13200	3120	1980	3210
30	4180	5120	e4600	e5300	---	13400	11300	19100	10600	3540	2130	3130
31	4430	---	e4700	e5200	---	13300	---	21000	---	3860	2560	---
TOTAL	112620	151270	131650	138500	203100	325620	342790	459100	594100	124110	99670	87370
MEAN	3633	5042	4247	4468	7254	10500	11430	14810	19800	4004	3215	2912
MAX	4430	5270	5220	5500	7720	13900	13400	21000	25700	7990	5310	3920
MIN	3030	4710	2600	4100	6200	6050	9870	12100	10600	2760	1980	2270
AC-FT	223400	300000	261100	274700	402800	645900	679900	910600	1178000	246200	197700	173300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1999, BY WATER YEAR (WY)

MEAN	2674	3570	3668	3873	4079	5572	7511	11140	11530	5386	2977	2524
MAX	6093	7926	8271	7995	10910	15280	19450	22080	30360	13150	7400	6099
(WY)	1984	1984	1984	1984	1997	1997	1986	1986	1997	1983	1997	1984
MIN	871	1810	1535	1398	1553	1489	1637	1535	2050	1726	1156	726
(WY)	1982	1982	1989	1989	1989	1988	1991	1988	1988	1985	1981	1981

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1978 - 1999	
ANNUAL TOTAL	2594860		2769900			
ANNUAL MEAN	7109		7589		5382	
HIGHEST ANNUAL MEAN					11120	1997
LOWEST ANNUAL MEAN					2019	1988
HIGHEST DAILY MEAN	19000	May 25	25700	Jun 6	42600	Jun 17 1997
LOWEST DAILY MEAN	2020	Aug 8	1980	Aug 29	35	Apr 28 1992
ANNUAL SEVEN-DAY MINIMUM	2120	Aug 7	2170	Aug 24	141	Oct 2 1980
ANNUAL RUNOFF (AC-FT)	5147000		5494000		3899000	
10 PERCENT EXCEEDS	14200		15100		13500	
50 PERCENT EXCEEDS	5650		5070		3200	
90 PERCENT EXCEEDS	3030		2800		1470	

e Estimated

BLACKFOOT RIVER BASIN

13066000 BLACKFOOT RIVER NEAR SHELLEY, ID

LOCATION.--Lat 43°15'46", long 112°02'48", in NW¼SW¼NE¼ sec.7, T.2 S., R.38 E., Bingham County, Hydrologic Unit 17040207, on right bank 1.2 mi downstream from Wolverine Creek, 8.5 mi southeast of Shelley, and at mile 30.5.

DRAINAGE AREA.--909 mi^2.

PERIOD OF RECORD.--July 1909 to November 1926, May 1927 to September 1950 (irrigation seasons only, monthly means, furnished by the Office of Indain Affairs), August 1975 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,650 ft above sea level, from topographic map. Prior to Aug. 19, 1975, at nearby site at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Blackfoot Reservoir (sta 13065000) 38.5 mi upstream. Water diverted from reservoir and several other diversions upstream for irrigation. Water diverted at times from Grays Lake near Wayan (Willow Creek basin).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,220 ft^3/s May 16, 1987, gage height, 9.10 ft, from flash flood; maximum gage height, 19.97 ft, Nov. 29, 1975, backwater from ice; minimum observed, 15 ft^3/s Jan. 23, 1919, gage height, 2.83 ft, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,620 ft^3/s June 10; minimum daily, 85 ft^3/s Dec. 22, 23.

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	302	174	134	125	e110	345	543	817	757	802	e850	595
2	283	173	130	120	e120	312	555	827	821	856	e850	592
3	280	170	128	e110	e120	306	515	839	1060	873	e850	512
4	279	168	128	e120	e120	299	485	801	1080	877	e700	517
5	275	169	111	e120	e120	295	463	745	1070	883	e700	510
6	272	175	e100	122	129	299	447	707	1060	868	e700	500
7	269	167	e100	122	135	295	455	681	1110	861	e700	496
8	265	169	e105	118	130	292	489	666	1150	903	e700	492
9	262	167	e95	117	138	292	499	669	1380	e1100	e700	490
10	256	164	e90	120	e110	294	511	664	1620	e1100	e700	493
11	254	160	e95	121	e120	288	611	658	1610	e1100	e600	490
12	254	164	e100	121	e120	398	872	647	1590	e1100	e600	487
13	264	161	e110	120	e130	402	907	651	1570	e1100	e600	486
14	280	164	e120	117	e130	405	724	646	1570	e1000	e600	482
15	254	164	e110	125	e130	412	544	652	1560	e1000	e600	480
16	248	164	e120	123	137	411	501	646	1540	e1000	e600	480
17	244	164	e120	113	141	420	460	616	1500	e1000	e600	477
18	243	168	e110	126	138	427	530	594	1330	e1000	e600	472
19	240	160	e110	122	138	435	679	586	1250	e1000	612	473
20	238	155	e100	122	135	445	675	587	1320	e850	614	470
21	202	164	e90	117	137	467	690	581	1330	e850	617	466
22	196	177	e85	112	140	468	697	576	1140	e850	618	383
23	197	170	e85	120	147	477	678	578	893	e850	610	378
24	195	171	e90	113	147	487	670	579	707	e850	611	377
25	191	146	e100	e100	245	513	688	604	908	e850	608	376
26	191	128	e110	e110	302	529	708	685	902	e850	598	374
27	189	134	e110	e110	307	525	735	692	903	e850	602	376
28	174	132	e120	e100	323	522	769	690	841	e850	600	375
29	173	141	e130	e110	---	514	798	754	799	e850	593	370
30	175	140	e130	e95	---	517	815	790	781	e850	604	369
31	173	---	130	e110	---	525	---	801	---	e850	609	---
TOTAL	7318	4823	3396	3601	4299	12616	18713	21029	35152	28623	20146	13838
MEAN	236	161	110	116	154	407	624	678	1172	923	650	461
MAX	302	177	134	126	323	529	907	839	1620	1100	850	595
MIN	173	128	85	95	110	288	447	576	707	802	593	369
AC-FT	14520	9570	6740	7140	8530	25020	37120	41710	69720	56770	39960	27450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1999, BY WATER YEAR (WY)

MEAN	222	170	137	131	147	203	339	593	768	749	581	420
MAX	626	563	760	783	1065	966	1042	1832	1852	1349	959	827
(WY)	1915	1985	1984	1984	1997	1986	1913	1986	1984	1984	1922	1977
MIN	64.3	49.7	43.0	40.6	45.0	69.1	93.9	132	138	89.1	188	116
(WY)	1993	1993	1993	1993	1993	1992	1991	1991	1925	1910	1993	1925

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1909 - 1999	
ANNUAL TOTAL	177584		173554			
ANNUAL MEAN	487		475		376	
HIGHEST ANNUAL MEAN					807	1984
LOWEST ANNUAL MEAN					143	1925
HIGHEST DAILY MEAN	1330	May 27	1620	Jun 10	2020	May 18 1976
LOWEST DAILY MEAN	85	Dec 22	85	Dec 22	27	Dec 26 1919
ANNUAL SEVEN-DAY MINIMUM	94	Dec 19	94	Dec 19	34	Jan 31 1921
ANNUAL RUNOFF (AC-FT)	352200		344200		272700	
10 PERCENT EXCEEDS	1020		897		863	
50 PERCENT EXCEEDS	423		460		247	
90 PERCENT EXCEEDS	130		118		69	

e Estimated

BLACKFOOT RIVER BASIN

13068495 BLACKFOOT RIVER BYPASS NEAR BLACKFOOT, ID

LOCATION.--Lat 43°10'16", long 112°23'13", in SE¼SW¼ sec.8, T.3 S., R.35 E., Bingham County, Hydrologic Unit 17040207, on right bank of the Blackfoot River at the flood diversion structure, about 400 ft downstream from Interstate 15 bridges, and 2.5 mi southwest of Blackfoot.

PERIOD OF RECORD.--April 1964 to current year. (Prior to 1978, only combined monthly flows of main river and of bypass channel were published.)

GAGE.--Water-stage recorder. Datum of gage is 4,469.0 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Flow regulated by Blackfoot Reservoir (see sta 13065000). Diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,460 ft³/s May 5, 1974; no flow for long periods.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 719 ft³/s June 9; minimum daily, 2.8 ft³/s Aug. 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	121	142	35	e15	e11	153	225	537	505	54	92	93
2	92	145	27	e15	e12	147	236	546	392	54	153	124
3	87	144	26	e14	e13	133	222	533	346	48	185	119
4	77	113	26	e16	15	123	224	534	380	43	154	99
5	83	98	17	e18	21	125	219	530	469	64	102	96
6	100	106	10	e22	17	122	223	514	576	52	81	91
7	97	91	11	e20	33	125	228	357	555	13	79	60
8	93	87	14	19	34	123	244	258	611	3.7	98	40
9	85	87	17	17	29	123	265	257	719	14	129	33
10	73	86	16	17	33	126	262	401	698	57	112	36
11	61	79	28	19	e15	121	237	393	704	91	87	45
12	54	79	11	19	e12	167	240	315	632	137	75	56
13	50	78	28	18	e12	206	252	265	558	53	100	75
14	47	72	23	15	e13	200	266	292	452	8.6	101	77
15	119	69	28	18	e15	211	265	300	318	22	84	79
16	312	47	21	24	e20	207	256	325	199	52	81	71
17	321	43	19	19	e26	210	248	342	184	72	27	73
18	293	44	24	17	25	215	239	288	197	87	13	78
19	272	44	e10	25	25	215	215	177	241	149	17	79
20	312	40	e4.0	24	21	223	180	114	323	119	11	91
21	288	44	e3.5	26	19	236	169	102	381	38	5.1	104
22	237	53	e3.0	17	17	232	142	135	289	14	2.8	104
23	242	60	e5.0	20	23	237	197	186	117	16	15	101
24	247	54	e10	18	25	229	294	172	51	19	22	95
25	230	52	e15	14	34	245	388	99	52	30	28	105
26	202	31	e20	11	148	265	392	84	99	40	32	161
27	196	28	e24	e12	144	250	358	110	129	30	33	89
28	195	31	30	e9.0	150	241	345	86	157	31	26	96
29	173	33	23	e7.0	---	237	450	104	129	44	25	107
30	208	38	16	e6.5	---	231	499	211	89	68	33	124
31	182	---	e15	e9.0	---	227	---	431	---	73	58	---
TOTAL	5149	2118	559.5	520.5	962	5905	7980	8998	10552	1596.3	2060.9	2601
MEAN	166	70.6	18.0	16.8	34.4	190	266	290	352	51.5	66.5	86.7
MAX	321	145	35	26	150	265	499	546	719	149	185	161
MIN	47	28	3.0	6.5	11	121	142	84	51	3.7	2.8	33
AC-FT	10210	4200	1110	1030	1910	11710	15830	17850	20930	3170	4090	5160

CAL YR 1998 TOTAL 47993.7 MEAN 131 MAX 579 MIN 3.0 AC-FT 95200
WTR YR 1999 TOTAL 49002.2 MEAN 134 MAX 719 MIN 2.8 AC-FT 97200

e Estimated

BLACKFOOT RIVER BASIN

13068500 BLACKFOOT RIVER NEAR BLACKFOOT, ID

LOCATION.--Lat 43°07'50", long 112°28'35", near E¼ corner, sec.28, T.3 S., R.34 E., Bingham County, Hydrologic Unit 17040207, Fort Hall Indian Reservation, on left bank 11 ft upstream from highway bridge, 8 mi southwest of Blackfoot, and at mile 3.4.

DRAINAGE AREA.--1,295 mi^2, including that of Sand Creek, flow of which is diverted to Blackfoot River through the Idaho Canal.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1913 to current year (prior to October 1931, summer months only). Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,420 ft above sea level, from river-profile survey. Prior to May 8, 1926, nonrecording gage, and May 8, 1926 to June 25, 1937, water-stage recorder at site 0.5 mi upstream at different datum. June 26, 1937 to Aug. 16, 1963, water-stage recorder at site 175 ft downstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Blackfoot Reservoir. Diversions above station for irrigation of about 28,000 acres below and about 32,000 acres above station, of which about 900 acres are irrigated by withdrawals from ground water (1966 determination). Part of flow is supplied by waste water from Snake River canals. Diversions to bypass channel 5.5 mi upstream from station began in April 1964. For records and statistics of combined discharges, see station 13068501.

EXTREMES FOR PERIOD OF RECORD.--River only (1964-97), maximum discharge, 740 ft^3/s June 12, 1984, gage height, 5.53 ft; maximum gage height, 6.77 ft, June 16, 1997, (backwater from the Snake River); no flow at times some years. Combined flow (1913-98), maximum discharge, 2,130 ft^3/s May 5, 1974; no flow at times some years.

EXTREMES FOR CURRENT YEAR.--River only, maximum daily discharge, 441 ft^3/s June 9; minimum daily, 65 ft^3/s Dec. 22. Combined flow, maximum daily discharge, 1,160 ft^3/s June 9; minimum daily, 68 ft^3/s Dec. 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	237	222	156	e95	e80	205	261	364	355	138	178	173
2	220	222	150	e85	e85	215	262	369	334	138	216	199
3	215	223	148	e80	e90	204	258	372	313	135	236	196
4	212	201	148	e80	e85	199	257	371	321	135	218	174
5	216	196	e130	e85	e90	197	257	372	342	149	181	179
6	223	206	e120	88	e95	201	258	366	390	145	160	166
7	223	200	e110	88	126	198	258	319	389	115	162	138
8	220	197	e120	86	129	190	261	270	396	101	168	140
9	218	199	e110	85	125	191	266	267	441	107	179	138
10	211	199	e95	86	131	194	265	325	427	137	162	143
11	199	195	e100	89	e105	193	260	316	434	162	148	149
12	193	192	e110	92	e105	210	260	296	410	194	140	143
13	194	193	e120	87	e115	242	262	275	382	140	153	158
14	187	189	e110	86	122	241	267	281	336	81	162	157
15	201	185	e100	e95	128	241	268	292	300	94	164	159
16	311	170	e110	e90	120	241	264	293	261	125	166	155
17	324	164	e110	e85	128	240	259	303	246	135	130	156
18	321	166	e100	e80	124	244	254	288	251	158	109	149
19	299	165	e90	e85	124	251	235	239	256	203	99	157
20	321	163	e85	e85	122	252	214	188	275	194	95	163
21	310	162	e75	e85	117	257	192	177	283	121	104	169
22	293	170	e65	e80	124	261	170	190	269	96	101	179
23	295	174	e75	e85	123	261	221	219	193	102	114	169
24	296	173	e80	e85	124	259	267	218	129	111	117	177
25	288	171	e85	e75	127	263	310	168	129	122	108	195
26	273	155	e90	e80	191	269	318	143	160	138	115	233
27	273	151	e90	e80	190	269	307	151	190	128	117	183
28	272	153	e95	e80	201	266	310	130	217	128	128	189
29	248	155	e100	e75	---	263	340	145	196	129	115	194
30	278	158	e100	e70	---	260	359	217	165	139	125	202
31	243	---	e100	e80	---	259	---	307	---	156	146	---
TOTAL	7814	5469	3277	2607	3426	7236	7940	8231	8790	4156	4516	5082
MEAN	252	182	106	84.1	122	233	265	266	293	134	146	169
MAX	324	223	156	95	201	269	359	372	441	203	236	233
MIN	187	151	65	70	80	190	170	130	129	81	95	138
AC-FT	15500	10850	6500	5170	6800	14350	15750	16330	17430	8240	8960	10080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1999, BY WATER YEAR (WY)

MEAN	206	180	114	109	121	159	204	246	191	122	140	139
MAX	314	318	314	302	345	386	428	587	469	288	323	263
(WY)	1977	1984	1984	1985	1997	1986	1986	1983	1984	1984	1984	1971
MIN	37.2	45.1	22.3	20.1	21.9	57.5	54.6	66.9	32.6	23.2	.26	1.11
(WY)	1993	1993	1993	1993	1993	1967	1993	1992	1977	1992	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		[a] WATER YEARS 1964 - 1999	
ANNUAL TOTAL	77301		68544			
ANNUAL MEAN	212		188		161	
HIGHEST ANNUAL MEAN					298	1984
LOWEST ANNUAL MEAN					48.7	1992
HIGHEST DAILY MEAN	412	May 28	441	Jun 9	733	Jun 12 1984
LOWEST DAILY MEAN	65	Dec 22	65	Dec 22	.00	Jun 2 1977
ANNUAL SEVEN-DAY MINIMUM	79	Dec 19	77	Jan 25	.00	Aug 10 1992
ANNUAL RUNOFF (AC-FT)	153300		136000		116600	
10 PERCENT EXCEEDS	306		301		310	
50 PERCENT EXCEEDS	203		174		134	
90 PERCENT EXCEEDS	133		89		47	

a Monthly and Summary Statistics for period since the diversion of water began into Blackfoot River Bypass channel (Apr. 1964).
e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.-Water years 1966, 1968-1970, 1972-1981, July 1989 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 24 to September 18, 1996; May 1 to September 30, 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 25.4 °C July 27, 1996.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.1 °C July 23.

WATER-QUALITY DATA, APRIL 1999 TO OCTOBER 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)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
21...	1205	189	476	8.8	9.0	8.4	25	10.9	110	190	130
MAY											
25...	1025	179	346	8.6	17.0	17.0	20	9.1	111	190	160
JUN											
25...	1103	130	340	8.7	16.0	17.8	20	7.5	102	230	200
AUG											
05...	1210	173	325	8.5	27.7	20.5	--	9.4	123	380	280
SEP											
29...	1350	195	350	8.7	17.5	10.9	1.6	10.4	110	K13	70
OCT											
13...	1205	161	355	8.7	13.6	10.6	1.5	9.8	104	K18	K26

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SOLVED SODIUM PERCENT (00932)	POTAS-SIUM, DIS-FIELD (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET MG/L AS CO3 (00445)
SEP								
29...	160	41	13	11	13	2.2	160	9

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	CHLO-SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, RIDE, DIS-SOLVED (MG/L AS F) (00950)	SUM OF DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SOLIDS, CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	DIS-SOLVED (TONS PER DAY) (70302)
SEP								
29...	144	27	8.9	.52	12	203	.28	107

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 TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
21...	<.010	.115	.026	.47	.100	.014	132	67
MAY								
25...	<.010	.051	.030	.58	.119	.010	77	37
JUN								
25...	<.010	<.050	<.020	.43	.081	.012	50	18
AUG								
05...	<.010	.068	<.020	.53	.066	<.010	60	28
SEP								
29...	<.010	<.050	<.020	.28	E.034	<.010	14	7.4
OCT								
13...	<.010	<.050	<.020	.28	E.032	<.010	10	4.3

E Positive detection, but below stated detection limit.
K Results based on counts outside ideal colony range.

13068500 BLACKFOOT RIVER NEAR BLACKFOOT, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	10.6	9.6	10.0
2	---	---	---	9.8	8.9	9.4
3	---	---	---	8.9	7.2	8.3
4	---	---	---	8.1	6.7	7.2
5	---	---	---	9.0	6.4	7.7
6	---	---	---	10.9	7.6	9.1
7	---	---	---	13.0	9.6	11.2
8	---	---	---	13.0	10.1	11.4
9	---	---	---	10.9	8.1	9.6
10	---	---	---	9.6	7.2	8.1
11	---	---	---	9.9	7.0	8.4
12	---	---	---	11.0	8.7	9.8
13	---	---	---	11.5	9.0	10.4
14	---	---	---	11.2	8.6	9.6
15	---	---	---	9.6	7.5	8.9
16	---	---	---	9.2	6.5	7.7
17	---	---	---	11.3	7.5	9.3
18	---	---	---	12.9	9.8	11.4
19	---	---	---	15.7	11.6	13.5
20	---	---	---	17.9	12.6	15.0
21	---	---	---	18.7	13.5	15.9
22	---	---	---	19.2	14.3	16.3
23	---	---	---	19.1	14.6	16.6
24	---	---	---	19.9	15.7	17.4
25	---	---	---	21.3	16.2	18.3
26	---	---	---	19.7	16.3	17.7
27	---	---	---	20.0	14.8	17.2
28	---	---	---	21.0	15.7	17.8
29	---	---	---	18.4	14.8	16.8
30	---	---	---	14.8	12.4	13.9
31	---	---	---	13.2	11.5	12.3
MONTH	---	---	---	21.3	6.4	12.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.1	12.0	13.3	20.7	15.2	17.7	22.0	18.3	19.9	17.9	14.0	15.7
2	14.3	13.0	13.9	20.8	15.4	17.9	22.3	18.3	19.9	17.3	14.8	15.8
3	14.8	12.6	13.6	21.7	15.4	18.4	22.2	19.4	20.5	16.2	14.4	15.1
4	16.0	12.9	14.2	20.8	16.5	18.4	23.0	19.9	21.0	17.8	13.8	15.5
5	15.1	12.7	13.6	21.5	15.4	18.2	21.5	18.9	20.2	18.4	14.1	16.0
6	13.2	12.4	12.9	23.3	16.2	19.5	22.5	19.1	20.5	18.3	14.4	16.0
7	13.8	12.0	12.9	23.3	18.7	20.6	22.0	18.1	19.9	17.8	13.5	15.3
8	15.1	12.4	13.4	22.7	16.0	19.2	22.7	17.6	20.0	18.1	12.9	15.2
9	14.8	12.1	13.3	23.3	15.9	19.5	22.8	18.3	20.3	18.1	13.2	15.5
10	15.9	12.6	14.1	23.0	16.5	19.6	20.8	18.3	19.5	17.3	14.0	15.4
11	16.6	13.0	14.7	23.5	17.4	20.3	19.1	17.4	18.6	17.9	13.4	15.4
12	18.1	14.3	16.0	22.7	18.4	20.4	21.2	16.6	18.5	17.3	13.0	14.9
13	19.2	15.4	17.0	24.7	18.6	21.4	21.7	17.1	19.1	17.1	12.7	14.6
14	20.2	16.0	17.9	21.0	18.9	19.9	21.5	17.3	19.1	17.6	13.0	15.0
15	21.5	17.1	19.1	21.8	17.0	19.1	20.5	16.8	18.4	17.9	13.4	15.4
16	21.7	17.6	19.2	22.0	16.3	18.9	21.0	16.2	18.3	18.3	13.7	15.6
17	20.8	16.8	18.6	20.5	16.6	18.4	22.7	16.3	19.2	18.7	14.0	16.0
18	21.2	16.8	18.8	21.5	16.5	18.6	23.9	16.8	20.1	18.4	14.3	16.2
19	20.8	17.4	18.9	22.0	17.6	19.6	23.3	18.3	20.5	18.3	14.4	16.0
20	21.5	17.1	19.1	22.3	18.4	20.1	22.3	17.9	20.3	17.9	14.3	15.8
21	20.5	17.8	19.0	24.6	17.8	20.9	24.4	18.3	20.9	17.4	13.8	15.3
22	20.2	17.0	18.4	24.9	17.6	21.2	24.0	18.1	20.9	17.6	13.8	15.5
23	20.7	16.2	18.1	25.1	17.9	21.3	23.0	18.3	20.5	17.4	14.0	15.4
24	22.7	16.2	19.1	23.2	18.6	20.7	22.5	18.3	20.0	16.2	13.5	14.7
25	20.5	16.2	18.3	22.5	17.4	19.9	22.5	17.6	19.9	14.3	11.8	13.0
26	19.1	15.1	16.9	23.5	17.1	20.2	23.2	17.4	20.0	12.7	10.7	11.6
27	18.4	14.4	16.0	23.5	18.3	20.9	20.5	18.3	19.3	12.4	10.1	10.9
28	18.1	14.4	16.1	22.3	18.7	20.5	22.5	17.9	19.8	12.3	9.0	10.3
29	17.9	14.6	16.3	23.9	19.4	21.3	22.2	17.1	19.5	12.0	8.4	9.9
30	19.5	15.9	17.4	23.2	19.7	21.3	19.2	17.1	18.4	12.6	8.9	10.4
31	---	---	---	23.3	18.6	20.5	18.3	14.0	16.0	---	---	---
MONTH	22.7	12.0	16.3	25.1	15.2	19.8	24.4	14.0	19.6	18.7	8.4	14.6

BLACKFOOT RIVER BASIN

13068501 COMBINATION BLACKFOOT RIVER AND BYPASS CHANNEL NEAR BLACKFOOT, ID

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	358	364	191	e110	e91	358	486	901	860	192	270	266
2	312	367	177	e100	e97	362	498	915	726	192	369	323
3	302	367	174	e94	e103	337	480	905	659	183	421	315
4	289	314	174	e96	e100	322	481	905	701	178	372	273
5	299	294	e147	e103	e111	322	476	902	811	213	283	275
6	323	312	e130	e110	e112	323	481	880	966	197	241	257
7	320	291	e121	e108	159	323	486	676	944	128	241	198
8	313	284	e134	105	163	313	505	528	1010	105	266	180
9	303	286	e127	102	154	314	531	524	1160	121	308	171
10	284	285	e111	103	164	320	527	726	1120	194	274	179
11	260	274	e128	108	e120	314	497	709	1140	253	235	194
12	247	271	e121	111	e117	377	500	611	1040	331	215	199
13	244	271	e148	105	e127	448	514	540	940	193	253	233
14	234	261	e133	101	e135	441	533	573	788	90	263	234
15	320	254	e128	e113	e143	452	533	592	618	116	248	238
16	623	217	e131	e114	e140	448	520	618	460	177	247	226
17	645	207	e129	e104	e154	450	507	645	430	207	157	229
18	614	210	e124	e97	149	459	493	576	448	245	122	227
19	571	209	e100	e110	149	466	450	416	497	352	116	236
20	633	203	e89	e109	143	475	394	302	598	313	106	254
21	598	206	e78	e111	136	493	361	279	664	159	109	273
22	530	223	e68	e97	141	493	312	325	558	110	104	283
23	537	234	e80	e105	146	498	418	405	310	118	129	270
24	543	227	e90	e103	149	488	561	390	180	130	139	272
25	518	223	e100	e89	161	508	698	267	181	152	136	300
26	475	186	e110	e91	339	534	710	227	259	178	147	394
27	469	179	e114	e92	334	519	665	261	319	158	150	272
28	467	184	e125	e89	351	507	655	216	374	159	154	285
29	421	188	e123	e82	---	500	790	249	325	173	140	301
30	486	196	e116	e76	---	491	858	428	254	207	158	326
31	425	---	e115	e89	---	486	---	738	---	229	204	---
TOTAL	12963	7587	3836	3127	4388	13141	15920	17229	19340	5753	6577	7683
MEAN	418	253	124	101	157	424	531	556	645	186	212	256
MAX	645	367	191	114	351	534	858	915	1160	352	421	394
MIN	234	179	68	76	91	313	312	216	180	90	104	171
AC-FT	25710	15050	7610	6200	8700	26070	31580	34170	38360	11410	13050	15240

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

MEAN	275	279	166	140	161	212	331	387	239	122	151	142
MAX	674	789	825	793	937	956	1085	1579	1411	635	834	444
(WY)	1984	1984	1984	1984	1997	1986	1986	1983	1984	1984	1984	1916
MIN	.000	27.0	22.3	17.7	21.6	31.4	57.3	.77	.000	.000	.000	.000
(WY)	1935	1935	1993	1932	1932	1932	1934	1934	1934	1934	1934	1934

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1913 - 1999	
ANNUAL TOTAL	125294		117544			
ANNUAL MEAN	343		322		220	
HIGHEST ANNUAL MEAN					751	1984
LOWEST ANNUAL MEAN					41.1	1935
HIGHEST DAILY MEAN	987	May 28	1160	Jun 9	2130	May 5 1974
LOWEST DAILY MEAN	68	Dec 22	68	Dec 22	.00	Jun 18 1919
ANNUAL SEVEN-DAY MINIMUM	86	Dec 19	86	Dec 19	.00	Jun 23 1919
ANNUAL RUNOFF (AC-FT)	248500		233100		159700	
10 PERCENT EXCEEDS	580		618		508	
50 PERCENT EXCEEDS	310		266		139	
90 PERCENT EXCEEDS	153		107		15	

e Estimated

SNAKE RIVER MAIN STEM

13069500 SNAKE RIVER NEAR BLACKFOOT, ID

LOCATION.--Lat 43°07'31", long 112°31'06", in SE¼SE¼ sec.30, T.3 S., R.34 E., Bingham County, Hydrologic Unit 17040206, on right bank 0.3 mi downstream from highway bridge, 0.7 mi downstream from Blackfoot River, 10 mi southwest of Blackfoot, and at mile 750.1.

DRAINAGE AREA.--11,310 mi^2, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--June 1910 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "at Clough ranch, near Blackfoot", 1924-45.

GAGE.--Water-stage recorder. Datum of gage is 4,399.83 ft above sea level. Prior to July 6, 1913, nonrecording gages; July 6, 1913 to Aug. 19, 1962, water-stage recorder at site 0.1 mi upstream at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Jackson Lake, Palisades Reservoir, Henrys Lake (see sta 13039000), Grassy Lake, Island Park Reservoir, and Blackfoot Reservoir (see sta 13065000), having a combined capacity of 2,883,000 acre-ft. Diversions above station for irrigation of about 121,000 acres below and about 832,000 acres above station, 155,000 acres of which are irrigated by withdrawals from ground water (1966 determination). Considerable water leaks above the station into the Snake River Plain aquifer.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,500 ft^3/s June 7, 1976, gage height, 15.44 ft, result of Teton Dam failure; maximum discharge excluding 1976, 46,200 ft^3/s June 18, 1918, gage height, 14.80 ft, site and datum then in use; minimum, 111 ft^3/s Nov. 10, 1934, gage height, 0.80 ft, site and datum then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Late in summer of 1905 there was no flow in Snake River for a distance of 10 mi in vicinity of Blackfoot. Aug. 9, 1905, discharge of Snake River just below mouth of Blackfoot 39 ft^3/s, supplied by ground-water inflow a short distance upstream.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 25,900 ft^3/s June 6; minimum, 1,910 ft^3/s Aug. 28, gage height, 2.36 ft.

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	3790	4960	5320	5110	5950	7450	12800	12000	23000	7860	4230	3190
2	3760	5260	5360	4730	6640	7570	12900	12900	24500	5820	4920	3770
3	3710	5380	5180	4400	6620	7510	12800	14000	25700	5020	5140	3970
4	3590	5450	5260	4510	6630	7460	12700	15200	25600	4700	4820	3750
5	3680	5410	5220	4520	6520	7450	12800	15200	25500	4790	4520	3450
6	3840	5530	5200	4430	6550	7450	12800	14400	25900	4810	4220	3390
7	3930	5490	5140	4460	6890	7220	12800	13700	25500	4230	4100	3150
8	3950	5460	4970	4450	7140	6650	12800	13800	24800	3770	3680	2980
9	3860	5470	4990	4390	7340	6280	12400	14300	24200	3910	3410	3000
10	3620	5420	4930	4420	7300	5940	11900	15500	24100	3990	3200	2930
11	3400	5420	4580	4420	7270	5840	11500	15800	23300	4040	2840	2770
12	3190	5430	4650	4430	7200	6900	11100	15500	21900	4090	2740	2640
13	3190	5450	4900	4450	7010	8030	10900	15300	20400	3680	3170	2560
14	3180	5150	4880	4370	7180	8910	10400	15000	19500	3100	3780	2560
15	3270	4960	4760	4450	7250	9810	10100	15000	17900	3040	3840	2620
16	3740	4990	4750	4480	7290	10800	10100	15400	17000	3250	3860	2640
17	4000	4990	4680	4520	7290	11800	10100	15200	16800	3390	3620	2660
18	4010	5000	4610	4480	7270	12200	9890	14700	17000	3580	3070	2540
19	3980	5060	e4200	4420	7260	12300	9820	13900	16900	3880	2470	2490
20	4220	4970	e3400	4480	7230	12400	9890	13200	17200	3640	2280	2480
21	4130	4950	e3000	4460	7160	12500	10100	12700	17800	2990	2090	2440
22	4190	5060	e2800	4500	7200	12700	10200	12500	17500	2690	2110	2390
23	4340	5220	e2800	4590	7170	12700	10200	12800	17300	2580	2420	2430
24	4470	5390	e3000	4880	7200	12800	9890	13400	17300	2570	2430	2500
25	4620	5470	e3400	4860	7290	12700	9770	13600	17400	2860	2310	2670
26	4680	5310	e4000	4790	7420	12900	9690	14200	17200	3240	2170	3310
27	4790	5270	4520	4820	7510	13100	9820	15600	16400	3240	2110	3440
28	4760	5230	5110	5420	7420	13300	9900	17200	15500	2990	2020	3560
29	4630	5220	5300	5380	---	13100	10500	17700	13400	2980	1990	3340
30	4610	5240	5240	5210	---	13000	11300	19100	10700	3350	2120	3260
31	4750	---	5250	4990	---	12800	---	21200	---	3600	2450	---
TOTAL	123880	157610	141400	143820	198200	311570	331870	460000	597200	117680	98130	88880
MEAN	3996	5254	4561	4639	7079	10050	11060	14840	19910	3796	3165	2963
MAX	4790	5530	5360	5420	7510	13300	12900	21200	25900	7860	5140	3970
MIN	3180	4950	2800	4370	5950	5840	9690	12000	10700	2570	1990	2390
AC-FT	245700	312600	280500	285300	393100	618000	658300	912400	1185000	233400	194600	176300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1999, BY WATER YEAR (WY)

MEAN	2798	3596	3432	3170	3417	4253	6919	10810	11310	4697	2558	2200
MAX	9682	7852	8227	8026	11810	15410	19200	25360	31130	18480	7965	9173
(WY)	1972	1984	1984	1984	1997	1997	1971	1928	1997	1917	1912	1912
MIN	165	175	1125	975	1028	1192	330	395	325	214	193	147
(WY)	1935	1935	1935	1935	1932	1934	1934	1934	1931	1931	1924	1934

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1910 - 1999	
ANNUAL TOTAL	2681800		2770240			
ANNUAL MEAN	7347		7590		4912	
HIGHEST ANNUAL MEAN					11350	1997
LOWEST ANNUAL MEAN					983	1934
HIGHEST DAILY MEAN	19700	May 25	25900	Jun 6	46200	Jun 18 1918
LOWEST DAILY MEAN	2080	Aug 8	1990	Aug 29	111	Nov 10 1934
ANNUAL SEVEN-DAY MINIMUM	2200	Aug 7	2160	Aug 24	116	Nov 8 1934
ANNUAL RUNOFF (AC-FT)	5319000		5495000		3558000	
10 PERCENT EXCEEDS	15100		15400		11700	
50 PERCENT EXCEEDS	5460		5200		3240	
90 PERCENT EXCEEDS	3200		2900		1080	

e Estimated

PORTNEUF RIVER BASIN

13073000 PORTNEUF RIVER AT TOPAZ, ID

LOCATION.--Lat 42°37'30", long 112°05'20", in SE¼ sec.23, T.9 S., R.37 E., Bannock County, Hydrologic Unit 17040208, on right bank 200 ft upstream from Bob Smith Creek, 800 ft downstream from Topaz siding, 1.5 mi upstream from diversion dam of Portneuf-Marsh Valley Canal Co., 4 mi west of Lava Hot Springs, and at mile 55.5.

DRAINAGE AREA.--570 mi^2, approximately (includes that of Bob Smith Creek). Mean elevation, 6,080 ft.

PERIOD OF RECORD.--January 1913 to September 1915, July 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1347: 1920-22, 1924-25(M). WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,918.00 ft above sea level. Prior to July 20, 1919, nonrecording gage at site 0.3 mi downstream at datum 3.0 ft lower. July 20, 1919 to June 22, 1954, nonrecording gage at site 0.3 mi downstream at datum 2.00 ft lower than present datum.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Chesterfield Reservoir, capacity 24,000 acre-ft, and Twenty-Four Mile Reservoir on Twenty-Four Mile Creek, capacity 685 acre-ft. Diversions above station for irrigation of about 29,000 acres, of which about 7,400 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,120 ft^3/s Feb. 1, 1963, gage height, 8.22 ft, result of highway fill failure 2 mi upstream; maximum discharge excluding highway fill failure events of 1962 and 1963, 1,740 ft^3/s Dec. 23, 1964, gage height, 6.00 ft; minimum, 33 ft^3/s Sept. 25, 1994, gage height, 2.10 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 608 ft^3/s May 31, gage height, 4.34 ft; minimum, 100 ft^3/s Oct. 15, gage height, 2.50 ft.

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	148	146	159	162	147	278	214	459	530	194	183	189
2	155	146	155	155	140	288	210	492	494	183	181	179
3	154	146	152	149	142	292	206	562	492	199	183	173
4	155	146	154	144	140	271	204	533	481	207	184	172
5	153	147	147	143	146	258	201	493	475	208	184	158
6	150	148	144	143	150	252	203	450	467	208	186	156
7	151	148	144	142	221	251	203	432	508	210	183	155
8	150	151	144	142	197	250	203	428	496	215	178	154
9	149	149	146	144	190	253	201	419	459	214	175	151
10	148	152	138	146	203	250	195	408	423	211	178	147
11	148	150	142	147	183	249	194	394	403	206	193	146
12	147	150	147	148	172	246	194	377	391	211	214	146
13	147	148	147	150	167	247	196	396	358	217	192	145
14	149	149	148	147	167	250	197	385	340	220	178	143
15	145	150	148	167	164	260	197	394	333	215	180	131
16	148	151	147	162	162	275	196	391	329	213	178	130
17	146	156	146	146	170	282	199	375	311	213	175	126
18	146	159	148	182	162	284	208	364	292	213	179	126
19	143	155	134	195	160	303	222	365	289	207	179	128
20	142	151	134	188	149	324	235	372	283	198	180	130
21	144	155	131	183	153	340	243	385	277	198	185	130
22	145	158	130	149	153	328	228	410	269	190	187	128
23	147	162	130	158	148	331	220	431	254	186	183	125
24	148	159	134	153	155	324	217	454	239	183	181	127
25	149	157	137	141	164	330	232	477	227	179	181	128
26	148	153	136	153	203	327	237	508	226	179	178	127
27	147	151	138	152	236	303	256	523	223	168	178	127
28	148	151	156	143	242	280	324	513	219	185	177	125
29	149	168	178	139	---	273	375	526	213	202	183	124
30	151	165	179	138	---	230	429	549	205	203	188	126
31	148	---	174	142	---	217	---	582	---	191	204	---
TOTAL	4598	4577	4547	4753	4786	8646	6839	13847	10506	6226	5688	4252
MEAN	148	153	147	153	171	279	228	447	350	201	183	142
MAX	155	168	179	195	242	340	429	582	530	220	214	189
MIN	142	146	130	138	140	217	194	364	205	168	175	124
AC-FT	9120	9080	9020	9430	9490	17150	13570	27470	20840	12350	11280	8430

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

MEAN	142	154	154	154	172	207	268	351	271	204	176	150
MAX	284	283	279	271	484	475	589	875	735	347	331	361
(WY)	1985	1985	1985	1985	1962	1972	1986	1984	1984	1984	1986	1986
MIN	55.7	84.9	93.8	93.3	91.0	116	103	127	97.4	81.6	74.5	62.8
(WY)	1993	1993	1993	1993	1993	1964	1992	1961	1934	1992	1992	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1913 - 1999	
ANNUAL TOTAL	86737		79265			
ANNUAL MEAN	238		217		200	
HIGHEST ANNUAL MEAN					362	1984
LOWEST ANNUAL MEAN					114	1992
HIGHEST DAILY MEAN	608	May 22	582	May 31	3250	Feb 12 1962
LOWEST DAILY MEAN	130	Dec 22	124	Sep 29	46	Sep 25 1994
ANNUAL SEVEN-DAY MINIMUM	133	Dec 19	126	Sep 23	49	Sep 21 1994
ANNUAL RUNOFF (AC-FT)	172000		157200		145000	
10 PERCENT EXCEEDS	479		391		304	
50 PERCENT EXCEEDS	178		180		175	
90 PERCENT EXCEEDS	145		142		113	

PORTNEUF RIVER BASIN

13075000 MARSH CREEK NEAR MCCAMMON, ID

LOCATION.--Lat 42°37'48", long 112°13'29", in SW¼NE¼NE¼ sec.22, T.9 S., R.36 E., Bannock County, Hydrologic Unit 17040208, 70 ft upstream from county road crossing, 2 mi southwest of McCammon, and at mile 11.0.

DRAINAGE AREA.--353 mi^2. Mean elevation, 5,630 ft.

PERIOD OF RECORD.--September 1954 to current year.

REVISED RECORDS.--WDR ID-1980-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,610 ft above sea level, by barometer. Prior to July 14, 1965, nonrecording gage 10 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records fair. Diversions above station for irrigation of about 19,000 acres, of which about 5,500 acres are by withdrawals from ground water and about 5,000 acres are by diversions into Marsh Creek basin from Portneuf River through the Marsh Valley Canal (1966 determination). Part of Birch Creek (tributary to Marsh Creek) is diverted into Devil Creek in Bear River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 1,120 ft^3/s Feb. 12, 1962, gage height, 13.25 ft; minimum, 8.4 ft^3/s Jan. 28, 1991, gage height, 1.84 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 303 ft^3/s Feb. 10, gage height, 5.23 ft; minimum, 25 ft^3/s Feb. 3, gage height, 1.96 ft.

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	65	67	92	86	69	111	92	140	117	57	37	86
2	69	68	85	81	69	107	98	131	110	55	38	81
3	70	64	80	75	71	101	98	139	119	54	47	83
4	69	62	81	71	73	94	97	139	110	51	64	84
5	68	63	81	67	77	89	93	125	123	51	75	86
6	74	65	77	67	80	87	94	118	124	51	60	84
7	90	64	76	68	140	90	93	113	135	51	52	85
8	79	67	75	69	183	85	92	111	136	47	49	86
9	77	68	75	70	160	77	89	107	123	47	49	88
10	77	67	62	71	223	95	84	105	113	46	54	88
11	75	65	64	73	143	96	83	104	103	45	55	86
12	74	66	65	74	112	91	75	99	96	48	67	87
13	73	66	65	74	99	88	61	101	92	48	60	87
14	72	66	67	73	96	88	69	103	90	47	53	84
15	72	66	69	77	102	87	80	108	89	49	51	83
16	71	66	69	82	99	89	80	117	85	50	52	86
17	71	67	69	83	114	76	83	109	87	54	55	77
18	70	72	70	85	129	65	74	100	87	54	55	75
19	70	72	50	93	105	65	91	96	88	57	55	76
20	69	72	62	109	101	79	101	94	97	57	56	75
21	68	74	58	109	99	121	110	93	92	50	63	77
22	68	74	55	96	92	122	97	93	79	50	68	75
23	64	73	55	90	92	111	93	92	74	43	80	74
24	65	76	53	85	103	108	90	91	68	39	86	72
25	66	80	56	80	112	105	95	92	68	34	70	69
26	64	81	60	78	105	101	97	93	65	37	63	69
27	64	81	61	77	99	99	102	96	61	35	69	69
28	64	83	77	74	100	92	111	95	60	34	70	71
29	64	89	96	70	---	92	135	105	60	35	69	71
30	68	92	95	68	---	92	139	114	59	37	73	71
31	68	---	88	68	---	91	---	123	---	35	94	---
TOTAL	2178	2136	2188	2443	3047	2894	2796	3346	2810	1448	1889	2385
MEAN	70.3	71.2	70.6	78.8	109	93.4	93.2	108	93.7	46.7	60.9	79.5
MAX	90	92	96	109	223	122	139	140	136	57	94	88
MIN	64	62	50	67	69	65	61	91	59	34	37	69
AC-FT	4320	4240	4340	4850	6040	5740	5550	6640	5570	2870	3750	4730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1999, BY WATER YEAR (WY)

MEAN	80.7	83.7	81.2	84.5	109	121	113	109	81.9	54.8	57.8	72.0
MAX	152	158	143	224	329	196	256	309	238	117	124	129
(WY)	1985	1984	1984	1980	1962	1986	1985	1984	1984	1984	1983	1984
MIN	42.7	46.7	45.3	49.8	56.1	59.6	45.1	26.6	30.2	23.6	24.5	41.1
(WY)	1993	1993	1993	1982	1993	1992	1992	1992	1961	1994	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1955 - 1999	
ANNUAL TOTAL	32449		29560			
ANNUAL MEAN	88.9		81.0		87.1	
HIGHEST ANNUAL MEAN					166	1984
LOWEST ANNUAL MEAN					48.4	1992
HIGHEST DAILY MEAN	185	May 14	223	Feb 10	1100	Feb 12 1962
LOWEST DAILY MEAN	39	Jul 17	34	Jul 25	11	Aug 8 1992
ANNUAL SEVEN-DAY MINIMUM	40	Jul 14	35	Jul 25	16	Aug 4 1992
ANNUAL RUNOFF (AC-FT)	64360		58630		63110	
10 PERCENT EXCEEDS	133		110		141	
50 PERCENT EXCEEDS	81		77		75	
90 PERCENT EXCEEDS	53		54		44	

PORTNEUF RIVER BASIN

13075500 PORTNEUF RIVER AT POCATELLO, ID

LOCATION.--Lat 42°52'20", long 112°28'05", in SE¼NW¼ sec.27, T.6 S., R.34 E., Bannock County, Hydrologic Unit 17040208, on left bank 1,400 ft downstream from Carson Street Bridge at Pocatello, 1.2 mi upstream from Pocatello Creek, and at mile 16.8.

DRAINAGE AREA.--1,250 mi^2, approximately. Mean elevation, 5,850 ft.

PERIOD OF RECORD.--May to September 1897, March 1898 to October 1899, August 1911 to current year.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,418.41 ft above sea level (U.S. Army Corps of Engineers datum). May 18, 1897 to Oct. 14, 1899, nonrecording gage at site 1.6 mi upstream at different datum. Aug. 31, 1911 to May 13, 1927, and Oct. 13, 1927 to June 13, 1928, nonrecording gage 0.3 mi upstream at different datum. May 14 to Oct. 12, 1927, water-stage recorder near present site at different datum. June 14, 1928 to Sept. 28, 1950, water-stage recorder near Carson Street Bridge, 0.3 mi upstream at same datum as former nonrecording gages at this site. Sept. 29, 1950 to May 20, 1968, water-stage recorder at Fremont Street site, 1.0 mi upstream at datum 18.57 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Portneuf Reservoir, an earthen dam completed in 1912 and raised 7 ft in 1950; capacity, 23,695 acre-ft (capacity prior to 1950, 16,410 acre-ft); and Chesterfield Reservoir, capacity, 685 acre-ft. Diversions above station for irrigation of about 55,000 acres, of which about 13,000 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,990 ft^3/s Feb. 14, 1962, gage height, 11.35 ft, site and datum then in use; maximum gage height, 14.56 ft, Jan. 21, 1987, backwater from ice; minimum daily, 0.23 ft^3/s July 19, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,010 ft^3/s May 4; maximum gage height, 8.95 ft, Dec. 26, backwater from ice; minimum daily, 70 ft^3/s Aug. 1.

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	228	259	324	e310	292	469	431	889	887	177	70	177
2	232	254	312	301	287	518	429	925	817	168	71	162
3	240	279	311	289	287	506	424	975	800	159	83	143
4	240	282	311	278	294	477	414	1010	790	154	76	150
5	243	281	306	275	297	451	404	974	792	144	108	149
6	247	292	296	275	306	431	403	895	807	136	108	142
7	248	289	296	277	357	430	407	840	833	132	100	138
8	254	304	289	277	489	427	411	814	848	130	87	137
9	247	296	290	277	436	426	418	792	812	121	77	134
10	247	297	270	278	478	431	401	777	756	114	72	130
11	249	295	e260	282	440	431	389	752	712	113	81	128
12	249	297	e280	286	378	428	394	725	684	109	100	125
13	248	289	284	286	352	424	390	718	657	106	111	123
14	247	287	286	286	341	425	394	726	592	100	107	123
15	248	289	284	290	341	439	418	713	565	106	93	120
16	250	289	284	316	339	456	427	722	544	108	88	114
17	251	294	283	324	346	471	432	704	482	112	89	161
18	252	314	282	326	367	459	454	674	441	125	85	188
19	253	311	e260	374	361	470	484	658	433	123	86	187
20	252	300	e240	381	334	503	555	690	423	118	93	197
21	250	297	e220	389	328	568	592	708	413	110	97	197
22	253	331	e210	353	329	625	570	743	397	104	103	197
23	257	319	e220	335	320	604	517	773	363	98	106	197
24	267	330	e230	325	323	603	493	792	302	92	110	197
25	269	312	e240	313	362	608	499	806	288	86	116	196
26	266	311	e240	309	366	645	530	803	270	78	109	e190
27	258	299	e250	309	409	617	551	809	268	98	113	e180
28	254	305	e270	302	421	563	611	789	220	77	112	e170
29	259	320	e290	286	---	526	729	776	195	72	113	e160
30	262	334	e330	e270	---	502	830	878	186	75	118	e160
31	268	---	e320	e280	---	442	---	918	---	75	132	---
TOTAL	7788	8956	8568	9459	9980	15375	14401	24768	16577	3520	3014	4772
MEAN	251	299	276	305	356	496	480	799	553	114	97.2	159
MAX	269	334	330	389	489	645	830	1010	887	177	132	197
MIN	228	254	210	270	287	424	389	658	186	72	70	114
AC-FT	15450	17760	16990	18760	19800	30500	28560	49130	32880	6980	5980	9470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 1999, BY WATER YEAR (WY)

MEAN	199	259	269	275	320	409	527	531	281	103	95.8	131
MAX	477	479	493	513	754	1054	1251	1986	1416	416	324	480
(WY)	1987	1984	1984	1984	1986	1986	1986	1984	1984	1984	1984	1986
MIN	70.0	90.5	158	155	167	179	62.9	27.3	26.2	14.7	11.2	25.8
(WY)	1993	1935	1993	1993	1993	1934	1934	1992	1992	1994	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1897 - 1999	
ANNUAL TOTAL	146300		127178			
ANNUAL MEAN	401		348		282	
HIGHEST ANNUAL MEAN					705	1984
LOWEST ANNUAL MEAN					118	1934
HIGHEST DAILY MEAN	1090	Apr 25	1010	May 4	2850	May 17 1984
LOWEST DAILY MEAN	93	Aug 25	70	Aug 1	.23	Jul 19 1979
ANNUAL SEVEN-DAY MINIMUM	98	Aug 22	75	Jul 29	2.4	Jun 29 1961
ANNUAL RUNOFF (AC-FT)	290200		252300		204100	
10 PERCENT EXCEEDS	878		720		535	
50 PERCENT EXCEEDS	312		294		241	
90 PERCENT EXCEEDS	108		109		67	

e Estimated

PORTNEUF RIVER BASIN

13075983 SPRING CREEK AT SHEEPSKIN ROAD NEAR FORT HALL, ID

LOCATION.--Lat 43°02'36", long 112°33'15", in NW¼NE¼SW¼ sec.25, T.4 S., R.33 E., Bingham County, Hydrologic Unit 17040206, on left bank, 300 yards upstream from county road bridge, and 5.9 mi west of Fort Hall.

PERIOD OF RECORD.--July 1980 to current year (prior to July 1980, miscellaneous measurements only).

GAGE.--Water-stage recorder. Elevation of gage is 4,380 ft above sea level, from topographic map.

REMARKS.--Records fair. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 605 ft^3/s June 8, 1998; maximum gage height, 6.09 ft, June 18, 1997 (backwater from Snake River); minimum daily, 266 ft^3/s June 30, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 447 ft^3/s May 30, gage height, 4.53 ft; maximum gage height, 5.21 ft, Oct. 7, 8, result of backwater from aquatic growth; minimum daily, 325 ft^3/s Feb. 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	425	400	375	378	326	355	374	423	421	394	384	404
2	423	401	372	374	325	354	373	424	427	390	383	407
3	418	397	366	370	328	358	373	424	426	391	374	407
4	423	392	369	369	332	368	372	417	418	405	374	412
5	428	396	367	364	334	361	374	425	415	410	369	404
6	428	399	365	368	332	366	382	422	427	391	369	402
7	428	395	365	367	363	366	382	418	432	374	371	400
8	429	398	368	368	362	363	384	408	423	351	377	397
9	427	391	366	366	355	368	386	402	418	356	378	396
10	422	391	365	368	365	366	382	408	414	363	372	399
11	423	389	367	372	341	368	384	404	413	367	377	400
12	425	387	368	368	335	365	383	397	402	372	380	397
13	424	385	370	367	334	366	380	388	401	364	386	402
14	425	386	371	368	337	369	386	385	405	364	388	400
15	429	387	367	371	338	367	384	396	397	354	390	389
16	402	387	367	373	339	367	381	395	394	351	386	385
17	389	391	370	368	346	371	380	393	408	353	380	385
18	386	392	375	370	345	372	378	387	404	377	373	388
19	387	386	371	371	342	374	381	390	403	375	372	395
20	385	381	368	377	342	378	392	399	413	356	375	396
21	385	382	365	378	343	378	394	398	406	351	373	396
22	388	390	368	361	341	380	402	394	385	354	373	394
23	395	387	366	363	342	383	416	392	385	354	392	390
24	395	390	365	357	343	379	409	388	387	356	397	384
25	398	384	369	352	349	380	408	388	396	365	394	380
26	396	380	373	351	348	379	412	396	393	373	387	387
27	397	381	376	346	350	375	408	398	388	363	387	394
28	399	385	379	341	352	e372	405	408	397	370	387	405
29	405	383	386	337	---	369	417	423	384	373	393	398
30	400	378	382	331	---	368	422	431	389	373	404	398
31	400	---	380	330	---	371	---	429	---	375	395	---
TOTAL	12684	11671	11481	11244	9589	11456	11704	12550	12171	11465	11840	11891
MEAN	409	389	370	363	342	370	390	405	406	370	382	396
MAX	429	401	386	378	365	383	422	431	432	410	404	412
MIN	385	378	365	330	325	354	372	385	384	351	369	380
AC-FT	25160	23150	22770	22300	19020	22720	23210	24890	24140	22740	23480	23590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1999, BY WATER YEAR (WY)

MEAN	377	367	361	354	349	351	348	370	370	344	353	372
MAX	438	419	398	404	400	392	414	477	574	403	417	435
(WY)	1985	1985	1985	1998	1986	1985	1985	1998	1998	1998	1984	1984
MIN	321	321	319	314	302	311	290	306	310	284	306	320
(WY)	1993	1993	1995	1992	1993	1994	1994	1993	1996	1994	1991	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1980 - 1999	
ANNUAL TOTAL	149440		139746			
ANNUAL MEAN	409		383		360	
HIGHEST ANNUAL MEAN					410	1998
LOWEST ANNUAL MEAN					318	1993
HIGHEST DAILY MEAN	605	Jun 8	432	Jun 7	605	Jun 8 1998
LOWEST DAILY MEAN	342	Mar 20	325	Feb 2	266	Jun 30 1994
ANNUAL SEVEN-DAY MINIMUM	346	Mar 17	329	Jan 30	271	Jun 30 1994
ANNUAL RUNOFF (AC-FT)	296400		277200		260600	
10 PERCENT EXCEEDS	519		415		405	
50 PERCENT EXCEEDS	389		383		358	
90 PERCENT EXCEEDS	360		354		315	

e Estimated

SNAKE RIVER MAIN STEM

13076500 AMERICAN FALLS RESERVOIR AT AMERICAN FALLS, ID

LOCATION.--Lat 42°46'45", long 112°52'45", in SE¼SW¼ sec.30, T.7 S., R.31 E., Power County, Hydrologic Unit 17040206, at outlet gates near right abutment of American Falls Dam on Snake River, at American Falls, and at mile 714.7.

DRAINAGE AREA.--13,580 mi^2, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--March 1926 to September 1979, October 1982 to current year.

GAGE.--Water-stage recorder. Prior to July 11, 1977, water-stage recorder at same datum on old dam. Datum of gage is sea level (levels by U.S. Bureau of Reclamation).

REMARKS.--Station equipment includes satellite telemetry. Reservoir is formed by concrete gravity dam and spillway with earth embankments at each end. Dam was rebuilt in 1976 and 1977. Partial storage began in 1926, full storage in 1927. Capacity, 1,700,000 acre-ft, between elevations 4,295.66 ft and 4,354.50 ft. Elevation at bottom of outlet gate is 4,285.00 ft and elevation at top of spillway radial gate is 4,356.50 ft. Dead storage unknown. Water is used for power generation and for irrigation by canals diverting from Snake River at Minidoka and Milner Dams. From 1973-77, because of the condition of the old dam, storage was limited to the spillway crest level, 4,343.2 ft. Reservoir was emptied in September 1977 to permit completion of the new sections of the dam. Storage began on October 14, 1977, behind the present structure.

COOPERATION.--Reservoir elevations and capacity table provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,748,000 acre-ft June 21, 1963, elevation, 4,355.34 ft; minimum since full capacity, (excluding 1977), 0.00 acre-ft Sept. 14-16, 1990, when there were no usable contents because the gates were open and natural flow was passing through the reservoir.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,695,000 acre-ft June 12, 13, elevation, 4,354.88 ft; minimum contents, 696,900 acre-ft Sept. 25, elevation, 4,333.93 ft.

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	853700	1039000	1237000	1175000	1145000	1268000	e1512000	1576000	1608000	1663000	1224000	888200
2	853700	1047000	1238000	1174000	e1149000	1274000	1518000	1587000	1623000	1653000	1216000	871700
3	854500	1059000	e1238000	1172000	1152000	1276000	1528000	1595000	1634000	1643000	1211000	865600
4	855300	1068000	e1237000	1171000	1155000	1280000	1535000	1616000	1643000	1628000	1203000	859000
5	855700	e1077000	1237000	1167000	1158000	1287000	1544000	1628000	1650000	1620000	1191000	853300
6	862700	1086000	1235000	e1165000	1162000	1292000	1546000	1638000	1666000	1607000	1179000	e847300
7	868900	1092000	1233000	1164000	1169000	e1295000	1548000	1637000	1675000	e1590000	1165000	841300
8	875000	1102000	1231000	1162000	e1171000	1297000	1550000	1634000	1681000	1577000	1155000	835700
9	880300	1110000	1233000	1160000	e1178000	e1300000	e1550000	1634000	1687000	1562000	1144000	829300
10	888100	1123000	1233000	1158000	1184000	e1302000	1551000	1645000	1690000	1547000	1129000	820600
11	894700	1133000	1229000	1156000	1191000	1306000	1550000	1645000	1693000	1532000	1116000	816200
12	899400	1142000	1227000	1151000	1197000	1312000	1545000	1647000	1694000	1518000	1104000	808000
13	904400	1152000	1225000	1149000	1199000	1321000	e1541000	1646000	1692000	1502000	1093000	800600
14	909500	1161000	e1223000	1147000	1202000	1330000	e1537000	1647000	1686000	1485000	1080000	794000
15	915300	1169000	1221000	e1146000	1207000	1340000	1533000	1646000	1679000	1471000	1074000	787000
16	921200	1179000	1220000	1144000	1210000	1354000	1529000	1646000	1670000	1455000	1066000	780000
17	927100	e1185000	e1214000	e1143000	1212000	1369000	1525000	1644000	1666000	1440000	1056000	773800
18	934700	1192000	e1210000	1142000	e1218000	1384000	1522000	1643000	1663000	1427000	1046000	767800
19	940700	1202000	e1206000	1142000	1224000	1395000	1517000	1636000	1661000	1413000	1035000	760200
20	949800	1205000	e1201000	e1142000	e1227000	1404000	e1516000	1625000	1661000	1399000	1024000	754500
21	955400	1212000	1197000	1141000	1233000	1411000	1515000	1614000	1657000	1387000	1009000	748100
22	966700	1218000	1190000	1140000	1235000	1423000	e1517000	1605000	1655000	1372000	995200	741000
23	969700	e1221000	1188000	1142000	1240000	1431000	e1518000	1593000	1660000	1357000	985800	732400
24	977900	1223000	e1183000	e1144000	1244000	1439000	e1520000	e1581000	1662000	e1339000	971800	e723200
25	984500	1227000	e1178000	1143000	e1247000	1451000	e1522000	1577000	1663000	1322000	959300	717300
26	993400	1228000	e1173000	e1141000	1252000	1459000	1527000	1571000	1667000	1308000	949400	713700
27	1001000	1230000	1169000	1142000	1258000	e1467000	1537000	1572000	1666000	1293000	937700	713700
28	1007000	e1231000	e1170000	1143000	1263000	1477000	1546000	1576000	1667000	1278000	929200	710000
29	1016000	1232000	1174000	1144000	---	1487000	1560000	1579000	1671000	1261000	914500	706700
30	1022000	e1234000	1175000	1145000	---	1499000	1569000	1588000	1670000	1245000	e902700	704900
31	1033000	---	1175000	1145000	---	e1506000	---	1595000	---	1235000	891400	---
MAX	1033000	1234000	1238000	1175000	1263000	1506000	1569000	1647000	1694000	1663000	1224000	888200
MIN	853700	1039000	1169000	1140000	1145000	1268000	1512000	1571000	1608000	1235000	891400	704900
†	4342.21	---	4345.22	4344.61	4347.00	---	4352.69	4353.16	4354.45	4346.43	4338.95	4334.15
‡	179000	201000	-59000	-30000	118000	243000	63000	26000	75000	-435000	-343600	-186500

CAL YR 1998 MAX 1684000 MIN 850500 ‡ 45000
WTR YR 1999 MAX 1694000 MIN 704900 ‡ -148800

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.
e Estimated

SNAKE RIVER MAIN STEM

13077000 SNAKE RIVER AT NEELEY, ID

LOCATION.--Lat 42°46'06", long 112°52'42", in NE¼SW¼ sec.31, T.7 S., R.31 E., Power County, Hydrologic Unit 17040209, on right bank 400 ft upstream from fish hatchery buildings, 0.9 mi downstream from American Falls Dam, and at mile 714.1.

DRAINAGE AREA.--13,600 mi^2, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--March 1906 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1317: 1910.

GAGE.--Water-stage recorder. Datum of gage is 4,241.6 ft above sea level (levels by U.S. Bureau of Reclamation). Prior to Aug. 8, 1910, nonrecording gage, and Aug. 8, 1910 to June 6, 1930, water-stage recorder at site 2.5 mi downstream at different datum. June 7, 1930 to Mar. 19, 1945, water-stage recorder at site 0.4 mi upstream at datum 0.4 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by American Falls Reservoir and other reservoirs, having a combined usable capacity of 4,600,000 acre-ft. Diversions above station for irrigation of about 1,080,000 acres, of which about 228,000 acres are irrigated by withdrawals from ground water (1966 determination). Considerable water leaks into the Snake River Plain aquifer above the station, some of which returns above American Falls Reservoir. Records computed to show flow at former site in sec.11, T.8 S., R.30 E., 0.5 mi north of Neeley, and 2.5 mi downstream from present site, by adding inflow between sites.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to regulation by American Falls Dam (1907-26), 48,400 ft^3/s June 20, 1918, gage height, 13.5 ft, site and datum then in use; minimum daily, 2,180 ft^3/s Oct. 7, 1924. Maximum discharge since regulation (1927-97), 46,100 ft^3/s June 19, 20, 24, 25, 1997, gage height, 11.46 ft, present site and datum; minimum, 50 ft^3/s Oct. 22, 23, Nov. 14-16, 1941, Oct. 29, 1961, Nov. 6, 1970; minimum gage height, 0.82 ft, Oct. 29, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,300 ft^3/s June 12, gage height, 9.24 ft; minimum, 3,080 ft^3/s Nov. 16, 17, gage height, 4.26 ft.

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	6520	3480	7050	8230	7650	8070	11100	10300	19800	14200	12400	10500
2	6380	3550	7080	8190	7780	8140	11100	10800	21900	13300	12100	10400
3	6390	3590	7780	8190	7650	8060	11200	11000	23500	13100	11700	10400
4	6600	3570	8090	8100	7660	8050	11100	9090	24500	13300	12000	9990
5	6080	3540	8030	7940	7550	8140	11600	12000	25100	13300	12400	9610
6	4650	3470	8060	8130	7580	8040	13600	14400	25300	13300	12700	9270
7	3920	3480	8050	8240	7780	8010	14600	16200	25900	13400	12800	9170
8	3490	3470	8030	8210	7930	7850	14700	16700	26300	13700	12700	9170
9	3490	3450	7970	8270	7880	7570	14700	17100	26400	13800	12400	9220
10	3510	3450	8050	8250	8170	7100	14700	17100	26600	13400	12200	9250
11	3520	3460	8060	8210	8110	7140	14700	17400	26900	13500	12300	9250
12	3530	3530	8000	8210	7990	7110	14700	18300	27800	13400	12200	9160
13	3550	3550	8090	8190	8030	7070	14700	18600	28100	13200	11700	9100
14	3550	3550	8080	8090	8080	7030	14700	18600	28100	12600	11300	9100
15	3550	3530	8090	7950	7890	7010	14700	18800	27400	12700	11300	9060
16	3520	3270	8070	7900	7930	7120	14700	19300	25300	13000	11200	9080
17	3550	3120	8080	7910	8060	7090	14800	19600	23500	13100	11400	8980
18	3540	3620	8090	7960	7970	7610	14800	19700	22500	13000	11200	8980
19	3530	4470	8100	7810	7950	9180	14200	20200	22300	12900	11400	8950
20	3530	5050	8040	7750	7960	10500	13500	21200	22200	12300	11700	8830
21	3560	5270	8120	7770	8010	11100	12700	21600	22300	12100	11800	8840
22	3650	5850	8080	7700	8080	11000	12200	21500	21600	12400	11800	8830
23	3660	6520	8120	7760	8080	11000	11700	21500	19800	12700	11500	8690
24	3530	7060	8110	7630	8040	11100	11300	21100	19000	12800	10900	8390
25	3500	6960	8160	7840	7960	11100	11100	20100	20000	12900	10700	8380
26	3510	7000	8200	7890	7910	11100	10300	18900	20000	13000	10600	8410
27	3510	7070	8100	7590	8030	11000	9340	18500	19100	13100	10700	8140
28	3520	7090	8050	7590	8060	11000	9240	18600	17200	13200	10800	7720
29	3500	7100	6120	7520	---	10900	9130	18700	15700	13000	10900	7380
30	3500	7000	7920	7500	---	10800	9170	18600	14800	12800	11100	7300
31	3490	---	8180	7530	---	11200	---	18500	---	12700	10800	---
TOTAL	125330	139120	246050	246050	221770	277190	380080	543990	688900	405200	360700	269550
MEAN	4043	4637	7937	7937	7920	8942	12670	17550	22960	13070	11640	8985
MAX	6600	7100	8200	8270	8170	11200	14800	21600	28100	14200	12800	10500
MIN	3490	3120	6120	7500	7550	7010	9130	9090	14800	12100	10600	7300
AC-FT	248600	275900	488000	488000	439900	549800	753900	1079000	1366000	803700	715400	534700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 1926, BY WATER YEAR (WY) (UNREGULATED)

MEAN	6610	7034	6134	5757	5957	6760	9783	16870	20590	11890	6821	6058
MAX	10490	9209	7590	7111	6920	11650	18480	24120	35470	23940	10610	12410
(WY)	1913	1913	1908	1914	1911	1910	1910	1910	1909	1907	1912	1912
MIN	3911	5254	4411	4526	4889	5089	6084	6047	6028	5162	2783	2565
(WY)	1923	1925	1920	1916	1923	1920	1920	1924	1924	1919	1924	1919

SUMMARY STATISTICS	[a] WATER YEARS 1907 - 1926	
ANNUAL MEAN	8957	
HIGHEST ANNUAL MEAN	11890	1913
LOWEST ANNUAL MEAN	5375	1924
HIGHEST DAILY MEAN	48400	Jun 20 1918
LOWEST DAILY MEAN	2180	Oct 7 1924
ANNUAL SEVEN-DAY MINIMUM	2440	Sep 21 1919
ANNUAL RUNOFF (AC-FT)	6489000	
10 PERCENT EXCEEDS	18200	
50 PERCENT EXCEEDS	7010	
90 PERCENT EXCEEDS	4630	

SNAKE RIVER MAIN STEM

13077000 SNAKE RIVER AT NEELEY, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1999, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3742	2917	3262	3781	3899	4732	8574	13370	14210	12410	10920	7435
MAX	12630	12420	10600	12640	18080	19940	22500	25160	35580	16570	13280	13560
(WY)	1985	1985	1987	1984	1997	1997	1971	1976	1997	1950	1997	1997
MIN	276	56.3	55.2	123	92.7	306	1688	5880	6062	7561	5664	3140
(WY)	1962	1967	1962	1967	1961	1993	1935	1930	1934	1934	1934	1934

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		[b] WATER YEARS 1927 - 1999	
ANNUAL TOTAL	3717930		3903930			
ANNUAL MEAN	10190		10700		7455	
HIGHEST ANNUAL MEAN					13800	1997
LOWEST ANNUAL MEAN					3834	1934
HIGHEST DAILY MEAN	22300	May 31	28100	Jun 13	46000	Jun 24 1997
LOWEST DAILY MEAN	3120	Nov 17	3120	Nov 17	50	Oct 22 1941
ANNUAL SEVEN-DAY MINIMUM	3430	Nov 11	3430	Nov 11	51	Nov 10 1941
ANNUAL RUNOFF (AC-FT)	7375000		7743000		5401000	
10 PERCENT EXCEEDS	18600		19000		13400	
50 PERCENT EXCEEDS	9140		8980		7010	
90 PERCENT EXCEEDS	3560		3560		907	

a Prior to regulation by American Falls Dam.
b Since regulation by American Falls Dam.

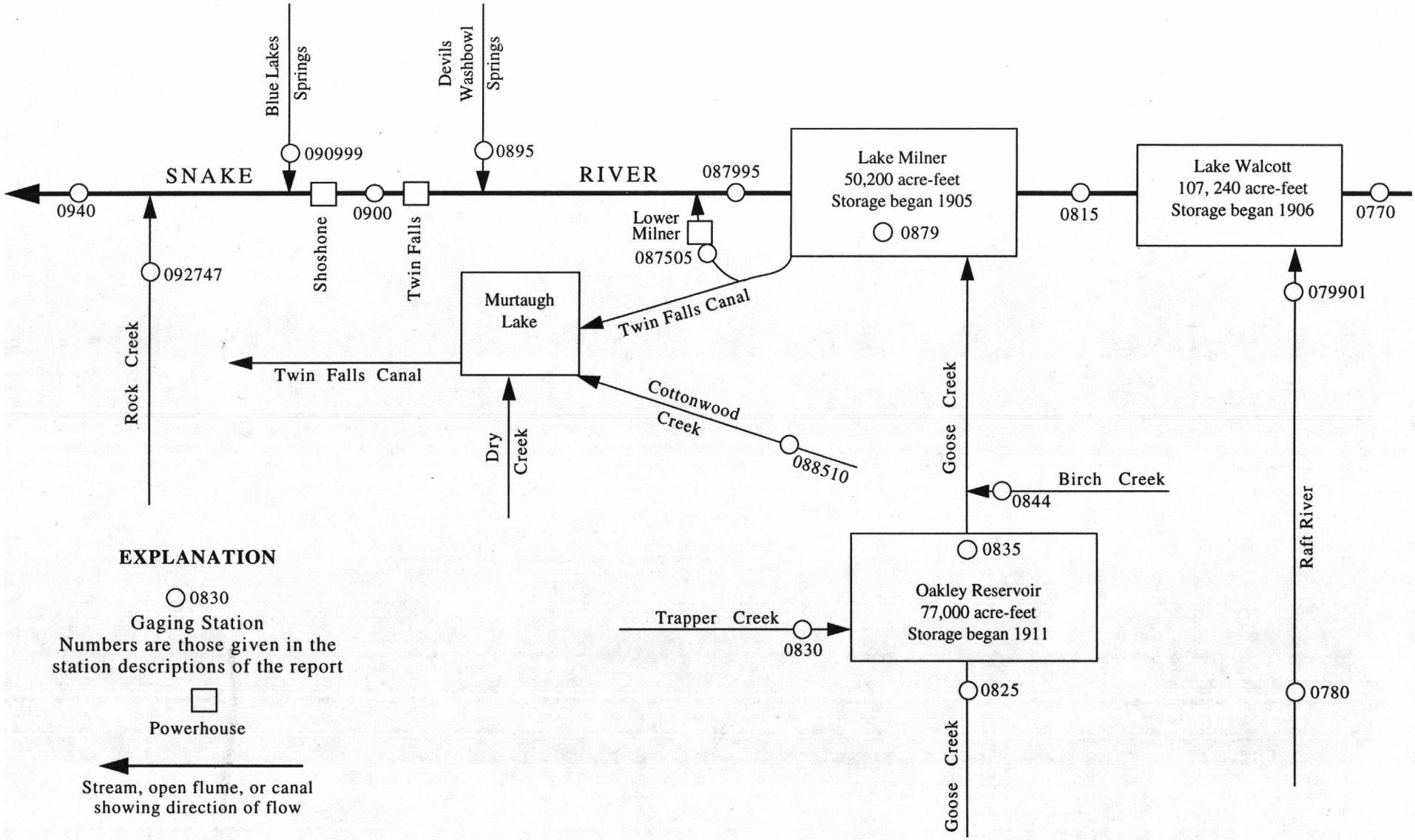


Figure 12. Gaging stations in Snake River basin between Snake River at Neeley and Snake River near Buhl.

RAFT RIVER BASIN

13078000 RAFT RIVER ABOVE ONEMILE CREEK NEAR MALTA, ID

LOCATION.--Lat 42°04'06", long 113°26'56", in SW¼NW¼NW¼ sec.5, T.16 S., R.26 E., Cassia County, Hydrologic Unit 17040210, U.S. Bureau of Land Management lands, on right bank 0.9 mi upstream from county road crossing, 0.2 mi upstream from Onemile Creek, and 17 mi southwest of Malta.

DRAINAGE AREA.--412 mi^2. Mean elevation, 6,300 ft.

PERIOD OF RECORD.--September 1946 to December 1953, May 1955 to June 1971, published as "at Peterson Ranch, near Bridge"; October 1975 to May 1984, equivalent records (except for unusually heavy rainstorm runoff from Onemile Creek drainage), published as "below Onemile Creek" (sta 13078205), December 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,940 ft above sea level, from topographic map. From October 1975 to May 1984, at site 0.9 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges and discharges above 85 ft^3/s, which are poor. Diversions above station for irrigation of about 16,000 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,250 ft^3/s Jan. 14, 1980, gage height, 8.20 ft, from rating curve extended above 70 ft^3/s on basis of slope area measurement; no flow part of each day, Sept. 5, 6, 1988, May 5, Aug. 13, 14, Sept. 26, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 224 ft^3/s June 3; minimum daily, 4.1 ft^3/s Sept. 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	7.5	16	19	e18	22	39	33	183	128	16	5.0	5.2
2	7.6	13	19	e17	18	46	32	150	115	14	5.6	5.7
3	8.0	12	18	e17	20	32	34	172	224	14	5.9	5.8
4	8.2	13	19	e16	21	29	34	165	195	13	6.1	6.1
5	8.5	16	18	16	21	26	34	145	132	13	6.1	5.8
6	8.8	15	15	20	23	25	35	123	129	13	4.9	5.1
7	9.1	16	e15	19	23	25	40	111	194	14	5.4	5.2
8	9.5	16	e14	18	e22	24	47	104	146	14	5.2	4.9
9	10	16	e13	18	e22	24	55	102	119	15	5.2	4.6
10	12	15	e14	18	e21	24	47	98	109	14	5.1	4.7
11	12	15	14	17	e23	24	40	91	98	14	5.7	4.6
12	11	16	14	17	e23	24	39	89	90	13	6.1	4.4
13	9.0	15	17	16	24	23	39	104	80	13	6.2	4.1
14	9.3	15	19	16	26	24	40	113	75	12	5.0	4.2
15	9.6	17	17	18	26	26	39	104	69	12	4.6	4.3
16	9.7	17	17	61	24	26	40	109	82	12	4.5	4.4
17	10	17	17	29	26	26	41	101	62	12	4.3	4.5
18	11	17	e17	25	30	25	44	89	51	9.8	4.3	4.6
19	11	17	e15	28	25	26	50	83	41	9.3	4.7	5.7
20	14	16	e13	30	21	27	56	82	37	8.5	4.6	5.4
21	14	18	e11	26	24	29	65	76	33	7.7	4.5	5.0
22	14	20	e12	22	21	38	62	80	31	7.4	5.4	5.3
23	12	19	e12	22	23	38	59	80	28	7.0	5.3	5.2
24	14	18	e12	19	24	38	61	81	24	6.2	5.3	5.3
25	16	18	e13	22	31	39	62	82	22	4.6	5.0	5.1
26	16	18	e13	23	28	41	63	98	21	4.5	4.9	5.3
27	16	18	e13	21	24	42	63	113	18	4.5	4.8	5.1
28	17	18	13	20	24	39	77	116	17	4.5	5.8	5.3
29	17	19	16	24	---	35	98	121	15	4.4	5.8	5.5
30	17	19	18	27	---	34	154	152	15	4.2	5.4	5.7
31	17	---	18	21	---	33	---	167	---	4.5	5.1	---
TOTAL	365.8	495	475	681	660	951	1583	3484	2400	315.1	161.8	152.1
MEAN	11.8	16.5	15.3	22.0	23.6	30.7	52.8	112	80.0	10.2	5.22	5.07
MAX	17	20	19	61	31	46	154	183	224	16	6.2	6.1
MIN	7.5	12	11	16	18	23	32	76	15	4.2	4.3	4.1
AC-FT	726	982	942	1350	1310	1890	3140	6910	4760	625	321	302

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1999, BY WATER YEAR (WY)

MEAN	8.44	10.7	11.8	17.5	24.3	28.2	39.2	46.8	35.3	8.87	6.70	6.51
MAX	19.9	25.2	27.8	99.7	82.5	100	146	152	147	36.1	16.3	13.3
(WY)	1987	1984	1984	1971	1986	1984	1984	1998	1983	1983	1983	1986
MIN	2.16	3.46	3.77	4.17	3.61	5.01	7.26	3.99	3.10	2.48	2.12	1.45
(WY)	1995	1995	1995	1993	1993	1961	1995	1994	1994	1994	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1947 - 1999	
ANNUAL TOTAL	14347.4		11723.8			
ANNUAL MEAN	39.3		32.1		19.2	
HIGHEST ANNUAL MEAN					47.9	1986
LOWEST ANNUAL MEAN					6.11	1994
HIGHEST DAILY MEAN	287	Jun 9	224	Jun 3	1210	Jan 14 1980
LOWEST DAILY MEAN	5.1	Aug 28	4.1	Sep 13	.11	Aug 14 1992
ANNUAL SEVEN-DAY MINIMUM	5.5	Aug 26	4.4	Sep 11	.33	Aug 13 1992
ANNUAL RUNOFF (AC-FT)	28460		23250		13920	
10 PERCENT EXCEEDS	128		89		42	
50 PERCENT EXCEEDS	18		18		11	
90 PERCENT EXCEEDS	7.5		5.1		4.7	

e Estimated

SNAKE RIVER MAIN STEM

13081500 SNAKE RIVER NEAR MINIDOKA, ID

LOCATION.--Lat 42°40'23", long 113°29'58", in SW¼NE¼ sec.2, T.9 S., R.25 E., Minidoka County, Lake Walcott West quad., Hydrologic Unit 17040209, on right bank 1 mi downstream from Minidoka Dam, 6 mi south of Minidoka, and at mile 673.5.

DRAINAGE AREA.--15,700 mi^2, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--April 21, 1910 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "below Minidoka Dam, at Howell's Ferry", 1911. Records for August 1895 to Apr. 20, 1910, at site 6 mi downstream "at Montgomery Ferry near Minidoka" are not equivalent.

REVISED RECORDS.--WSP 1347: 1911.

GAGE.--Water-stage recorder. Datum of gage is 4,132.2 ft above sea level (river-profile survey). Prior to Apr. 21, 1910, nonrecording gage at site 6 mi downstream at different datum. Apr. 21, 1910 to Aug. 28, 1911, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Lake Walcott (1906), American Falls Reservoir (1927), and other reservoirs, having a combined usable capacity of about 4,700,000 acre-ft. Diversions above station for irrigation of about 128,000 acres below and about 1,200,000 acres above station, of which about 304,000 acres are irrigated by withdrawals from ground water (1966 determination). Considerable water leaks into the Snake River Plain aquifer above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1910-26), 45,900 ft^3/s June 21, 1918, gage height, 16.02 ft; minimum daily, 1,700 ft^3/s Aug. 2, 1919. Maximum discharge since regulation (1927-98), 42,900 ft^3/s June 21, 1997, gage height, 15.49 ft; minimum, 37 ft^3/s Jan. 28, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge of 47,500 ft^3/s May 29, 30, 1897, at site 6 miles downstream at Montgomery Ferry near Minidoka, gage height, 12.6 ft (datum at that site).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 23,400 ft^3/s June 13, 14; minimum, 2,930 ft^3/s Nov. 7, gage height, 4.92 ft.

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	6130	3490	7460	8690	8060	8500	8770	9630	17500	10700	10500	8680
2	5910	3520	7400	8450	7780	8530	10500	10300	19100	10700	10300	8620
3	5860	3310	8080	8430	7890	8540	11300	10800	20500	10600	10300	8620
4	5880	3260	8600	8430	7830	8470	11400	8250	21500	10500	10200	8610
5	5580	3450	8340	8420	7830	8400	11800	10400	22100	10400	10300	8450
6	5030	2950	8380	8480	7870	8320	13300	13600	22400	10500	10300	8220
7	4860	2930	8470	8740	8060	8450	14700	15800	22900	10500	10300	8100
8	5180	3490	8440	8720	8290	8320	15200	16600	23300	10600	10300	7950
9	5370	3480	8490	8690	8590	8380	15200	17100	23300	10900	10300	7910
10	5690	3530	8350	8480	8930	7680	14800	16900	23300	10800	10200	7850
11	5590	3610	8360	8450	8410	6680	14800	16900	23300	10700	10100	7850
12	5520	3600	8380	8590	8040	5630	14700	17400	23300	10600	9940	7850
13	5370	3630	8370	8450	8410	4660	14500	17400	23400	10500	9660	7620
14	5180	3590	8310	8390	8450	3490	14500	17000	23400	10300	9340	7520
15	4800	3610	8150	8500	8340	3000	14500	17000	23200	10700	9420	7450
16	4560	3290	8170	8120	8300	3110	14400	17500	20900	10500	9460	7380
17	4550	3160	8220	8070	8530	3960	14500	17900	18800	10800	9440	7370
18	4460	3710	8390	7970	8330	5900	14500	17800	17600	10700	9480	7450
19	4900	4630	e8500	7980	8500	7240	13900	18400	17300	10600	9680	7570
20	4900	5420	e8500	8210	8260	8810	13500	19200	17600	10300	9840	7450
21	4630	6000	e8500	8920	8420	10200	12600	19500	17600	10200	9730	7460
22	4600	6470	e8500	8650	8340	10600	11600	19100	17000	10400	9660	7400
23	4570	7040	e8500	8690	8390	10800	11200	18700	16100	10700	9480	7290
24	4540	7580	e8500	8570	8260	11000	10600	18300	15600	10800	8970	7420
25	4540	7520	e8500	8270	8350	11000	10500	17200	16400	10600	8950	7550
26	4590	7550	e8500	8560	8440	11100	10000	16000	16400	10500	9230	7490
27	4560	7570	e8500	8350	8310	11000	9000	15700	16000	10400	9410	7200
28	4580	7600	e8500	8150	8340	11000	8750	16100	13900	10300	9350	6790
29	3750	7580	7610	7980	---	11000	8740	16200	12400	10400	9310	6300
30	3440	7540	7730	7950	---	11000	8750	16400	11000	10500	9280	6070
31	3450	---	8510	7930	---	11100	---	16600	---	10600	9060	---
TOTAL	152570	144110	257210	260280	231550	255870	372510	495680	577100	327300	301790	229490
MEAN	4922	4804	8297	8396	8270	8254	12420	15990	19240	10560	9735	7650
MAX	6130	7600	8600	8920	8930	11100	15200	19500	23400	10900	10500	8680
MIN	3440	2930	7400	7930	7780	3000	8740	8250	11000	10200	8950	6070
AC-FT	302600	285800	510200	516300	459300	507500	738900	983200	1145000	649200	598600	455200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1926, BY WATER YEAR (WY) (UNREGULATED)

MEAN	5941	6683	6047	5740	6081	6342	8108	14000	16910	8233	4800	4732
MAX	10390	9138	7279	7226	7657	7790	11820	19940	30430	18490	8725	11820
(WY)	1913	1913	1918	1912	1911	1911	1914	1921	1918	1917	1912	1912
MIN	2154	4805	4350	3813	5014	4632	4599	4320	3371	2986	2067	2151
(WY)	1925	1920	1920	1925	1920	1920	1924	1924	1924	1919	1919	1919

SUMMARY STATISTICS	[a] WATER YEARS 1910 - 1926	
ANNUAL MEAN	7841	
HIGHEST ANNUAL MEAN	10830	1913
LOWEST ANNUAL MEAN	4562	1924
HIGHEST DAILY MEAN	45800	Jun 21 1918
LOWEST DAILY MEAN	1700	Aug 2 1919
ANNUAL SEVEN-DAY MINIMUM	1820	Jul 27 1919
ANNUAL RUNOFF (AC-FT)	5681000	
10 PERCENT EXCEEDS	14500	
50 PERCENT EXCEEDS	6260	
90 PERCENT EXCEEDS	3450	

SNAKE RIVER MAIN STEM

13081500 SNAKE RIVER NEAR MINIDOKA, ID -- Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1999, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3455	3136	3518	3953	4062	4534	7768	11330	11830	9596	8590	6222
MAX	11900	12620	11400	13250	18120	20020	22130	23390	32370	14670	11640	12870
(WY)	1985	1985	1984	1984	1997	1997	1971	1971	1997	1983	1997	1997
MIN	714	306	294	398	287	251	1015	4503	5959	5982	5192	2774
(WY)	1962	1962	1962	1967	1961	1961	1935	1930	1934	1934	1934	1977

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		[b] WATER YEARS 1927 - 1999	
ANNUAL TOTAL	3434120		3605460			
ANNUAL MEAN	9409		9878		6510	
HIGHEST ANNUAL MEAN					13020	1997
LOWEST ANNUAL MEAN					3330	1934
HIGHEST DAILY MEAN	20700	May 25	23400	Jun 13	42700	Jun 21 1997
LOWEST DAILY MEAN	2930	Nov 7	2930	Nov 7	37	Jan 28 1962
ANNUAL SEVEN-DAY MINIMUM	3270	Nov 3	3270	Nov 3	111	Mar 15 1968
ANNUAL RUNOFF (AC-FT)	6812000		7151000		4716000	
10 PERCENT EXCEEDS	16300		17000		11600	
50 PERCENT EXCEEDS	8500		8530		6320	
90 PERCENT EXCEEDS	4600		4630		1100	

a Prior to regulation by American Falls Dam.
b Since regulation by American Falls Dam.
e Estimated.

13082500 GOOSE CREEK ABOVE TRAPPER CREEK, NEAR OAKLEY, ID

LOCATION.--Lat 42°07'30", long 113°56'20", in sec.13, T.15 S., R.21 E., Cassia County, Hydrologic Unit 17040211, on right bank 0.2 mi upstream from maximum flow line of Oakley Reservoir, 5 mi upstream from Trapper Creek, 5 mi south of Oakley Dam, 9 mi southwest of Oakley, and at mile 35.1.

DRAINAGE AREA.--633 mi^2. Mean elevation, 6,030 ft.

PERIOD OF RECORD.--April 1911 to September 1916, March 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,770 ft above sea level, by barometer. Prior to Aug. 29, 1912, at site 200 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Decreed water rights are reported to apply to about 2,700 acres above station. Diversions for irrigation are made as flow permits to a major part of this acreage. Flow of artesian well, completed in 1935, enters below station. Pumps on four wells above and one below gage may occasionally discharge into the channel. Practically entire flow passing station is stored in Oakley Reservoir (see sta 13083500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,240 ft^3/s Feb. 11, 1962, gage height, 9.3 ft, determined from slope-area measurement of peak flow; no flow July 22 to Aug. 10, Aug. 22-30, 1934, Aug. 15 to Oct. 3, 1935, July 22 to Sept. 25, 1940, Sept. 14, 1947, July 30, Aug. 3 to Sept. 4, Sept. 10-26, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 258 ft^3/s May 24, 26, 27, gage height, 4.29 ft; minimum daily, 11 ft^3/s Aug. 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	26	32	36	55	41	67	67	171	193	34	19	12
2	25	33	36	50	43	64	70	176	176	33	17	12
3	26	34	35	47	39	59	69	176	181	32	18	13
4	27	33	36	43	42	51	64	185	175	30	19	13
5	28	33	33	38	43	46	61	184	158	29	19	14
6	27	33	29	39	39	42	66	177	153	27	19	13
7	27	34	e26	47	41	44	78	169	165	26	18	14
8	26	35	e24	49	97	44	80	167	158	25	16	14
9	26	34	e22	45	68	44	76	168	137	25	14	13
10	27	33	e24	48	107	43	72	172	122	25	15	13
11	27	33	24	47	55	43	72	174	111	24	17	13
12	27	33	34	47	38	44	76	173	103	24	18	13
13	26	34	35	46	45	41	73	178	99	28	19	13
14	28	33	37	40	48	44	75	181	96	27	17	13
15	29	33	35	51	46	48	77	191	91	25	16	14
16	29	33	35	51	45	49	79	200	84	23	15	13
17	29	34	34	52	61	49	81	178	78	22	14	13
18	29	34	35	41	71	49	82	162	73	21	13	13
19	29	33	34	40	49	50	87	150	65	26	13	13
20	29	32	30	41	43	53	99	159	62	23	13	13
21	29	35	e24	42	41	60	111	174	62	22	13	14
22	30	37	e19	41	40	66	120	193	61	21	13	14
23	31	38	e17	37	37	68	123	205	55	20	14	14
24	31	36	e18	36	47	71	117	221	52	20	13	14
25	31	35	22	33	49	73	116	225	32	20	14	14
26	31	35	24	41	42	75	113	239	26	19	13	14
27	31	34	26	39	39	83	117	238	36	19	12	14
28	31	34	33	34	44	83	134	226	38	19	12	15
29	32	35	37	29	---	80	147	220	38	18	12	15
30	33	35	46	32	---	74	163	225	36	21	11	16
31	32	---	53	33	---	71	---	222	---	21	12	---
TOTAL	889	1020	953	1314	1400	1778	2765	5879	2916	749	468	406
MEAN	28.7	34.0	30.7	42.4	50.0	57.4	92.2	190	97.2	24.2	15.1	13.5
MAX	33	38	53	55	107	83	163	239	193	34	19	16
MIN	25	32	17	29	37	41	61	150	26	18	11	12
AC-FT	1760	2020	1890	2610	2780	3530	5480	11660	5780	1490	928	805

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1999, BY WATER YEAR (WY)

MEAN	18.4	24.7	23.9	29.6	47.4	66.7	101	147	67.0	18.9	12.0	11.2
MAX	45.7	50.9	45.3	163	241	356	242	625	332	84.3	52.9	39.5
(WY)	1985	1985	1965	1971	1962	1921	1986	1984	1975	1984	1984	1984
MIN	1.91	8.03	11.8	11.4	15.9	28.3	18.2	2.75	1.38	.40	.000	.000
(WY)	1993	1993	1968	1963	1949	1991	1992	1992	1992	1992	1940	1935

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1911 - 1999	
ANNUAL TOTAL	23897		20537			
ANNUAL MEAN	65.5		56.3		47.5	
HIGHEST ANNUAL MEAN					150	1921
LOWEST ANNUAL MEAN					13.2	1992
HIGHEST DAILY MEAN	380	May 15	239	May 26	2560	Feb 11 1962
LOWEST DAILY MEAN	10	Sep 1	11	Aug 30	.00	Jul 22 1934
ANNUAL SEVEN-DAY MINIMUM	10	Aug 30	12	Aug 27	.00	Jul 22 1934
ANNUAL RUNOFF (AC-FT)	47400		40740		34400	
10 PERCENT EXCEEDS	161		158		116	
50 PERCENT EXCEEDS	36		36		25	
90 PERCENT EXCEEDS	20		14		7.8	

e Estimated

GOOSE CREEK BASIN

13083000 TRAPPER CREEK NEAR OAKLEY, ID

LOCATION.--Lat 42°10'10", long 113°58'20", in NW¼SE¼NW¼ sec.34, T.14 S., R.21 E., Cassia County, Hydrologic Unit 17040211, on left bank 4 mi upstream from Oakley Dam, 7 mi southwest of Oakley, and at mile 3.0.

DRAINAGE AREA.--53.7 mi^2. Mean elevation, 6,360 ft.

PERIOD OF RECORD.--May 1911 to September 1916, March 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1063: 1941, 1943. WSP 1567: Drainage area.

GAGE.--Water-stage recorder and broadcrested concrete weir. Elevation of gage is 4,820 ft above sea level, by barometer. Prior to Sept. 1, 1912, water-stage recorder at approximately present site at different datum. Apr. 8, 1913 to Sept. 30, 1916, and Mar. 28, 1919 to Aug. 15, 1931, at site 1 mi upstream at different datum. Sept. 1, 1912 to Apr. 7, 1913, nonrecording gage at site 0.8 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Small diversions above station for irrigation. Flow of artesian well, completed in 1936, enters above. Practically entire flow passing station is stored in Oakley Reservoir (see sta 13083500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 270 ft^3/s Aug. 17, 1941, gage height, 6.99 ft, during cloudburst, from rating curve extended above 100 ft^3/s on basis of velocity-area studies and peak flow over weir (a higher flow may have occurred during cloudburst Aug. 15, 1931); maximum gage height, 8.64 ft, Jan. 31, 1995, affected by backwater from beaver dam; minimum daily, 0.90 ft^3/s July 19, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 64 ft^3/s May 29; minimum daily, 9.3 ft^3/s Dec. 20, 23.

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	12	13	13	18	18	28	48	20	13	13
2	12	11	12	13	13	16	18	30	47	20	13	13
3	11	11	12	13	13	15	18	33	45	19	13	13
4	11	11	12	13	13	15	18	33	41	19	14	13
5	11	11	11	13	13	14	18	32	39	19	14	13
6	11	11	12	13	13	14	19	31	40	18	13	12
7	11	11	12	13	15	14	19	31	39	18	13	12
8	11	12	12	13	14	14	18	33	36	17	13	12
9	11	11	12	13	14	14	18	33	35	17	13	12
10	11	11	12	13	14	14	18	33	34	17	13	12
11	11	11	13	13	13	14	19	33	32	16	13	12
12	11	11	13	13	13	13	19	33	31	16	14	12
13	11	11	13	13	13	14	20	36	30	16	13	12
14	11	11	13	13	14	14	20	35	29	16	13	12
15	11	11	13	16	13	15	20	37	28	16	12	12
16	11	11	13	14	14	15	20	35	27	15	12	12
17	11	11	13	14	17	15	20	34	27	15	12	12
18	11	11	13	15	14	15	21	35	26	15	12	12
19	11	11	10	15	14	16	23	36	26	15	12	12
20	11	11	9.3	15	13	17	25	38	25	15	12	12
21	11	13	9.6	15	14	18	25	42	24	14	13	12
22	11	12	9.4	14	13	18	24	50	24	14	12	12
23	11	12	9.3	15	14	18	24	53	23	14	12	12
24	11	12	10	14	14	18	23	58	23	14	12	13
25	11	12	14	14	14	19	23	61	23	14	12	13
26	11	12	15	14	14	20	24	63	22	14	12	13
27	11	12	14	14	14	20	26	63	22	13	12	13
28	11	12	17	13	14	19	28	60	21	14	12	13
29	11	12	14	13	---	19	27	64	21	15	12	13
30	11	12	14	13	---	18	29	56	21	14	12	13
31	11	---	14	13	---	18	---	52	---	14	12	---
TOTAL	343	342	382.6	423	384	501	642	1291	909	493	390	372
MEAN	11.1	11.4	12.3	13.6	13.7	16.2	21.4	41.6	30.3	15.9	12.6	12.4
MAX	12	13	17	16	17	20	29	64	48	20	14	13
MIN	11	11	9.3	13	13	13	18	28	21	13	12	12
AC-FT	680	678	759	839	762	994	1270	2560	1800	978	774	738

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1999, BY WATER YEAR (WY)

MEAN	10.9	11.3	11.4	11.5	12.9	15.3	21.8	32.0	22.2	12.5	10.2	10.1
MAX	14.7	16.2	16.2	20.5	30.5	60.0	70.0	100	73.1	36.1	21.9	14.8
(WY)	1985	1985	1981	1943	1943	1921	1921	1984	1984	1984	1984	1921
MIN	8.01	7.80	7.62	6.00	8.00	9.66	10.6	9.20	6.35	3.95	6.45	6.80
(WY)	1931	1931	1912	1915	1915	1933	1934	1934	1994	1992	1991	1931

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1911 - 1999	
ANNUAL TOTAL	6457.6		6472.6			
ANNUAL MEAN	17.7		17.7		15.2	
HIGHEST ANNUAL MEAN					33.9	1921
LOWEST ANNUAL MEAN					8.65	1931
HIGHEST DAILY MEAN	66	May 17	64	May 29	150	May 15 1984
LOWEST DAILY MEAN	9.3	Dec 20	9.3	Dec 20	.90	Jul 19 1992
ANNUAL SEVEN-DAY MINIMUM	10	Dec 18	10	Dec 18	.97	Jul 14 1992
ANNUAL RUNOFF (AC-FT)	12810		12840		11020	
10 PERCENT EXCEEDS	33		32		26	
50 PERCENT EXCEEDS	13		14		12	
90 PERCENT EXCEEDS	11		11		8.8	

GOOSE CREEK BASIN

13083500 OAKLEY RESERVOIR NEAR OAKLEY, ID

LOCATION.--Lat 42°11'50", long 113°54'50", in sec.19, T.14 S., R.22 E., Cassia County, Hydrologic Unit 17040211, just upstream from right abutment of Oakley Dam on Goose Creek, 4 mi southwest of Oakley, and at mile 29.9.

DRAINAGE AREA.--729 mi^2.

PERIOD OF RECORD.--October 1912 to current year.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Nonrecording gage. Supplemental recording gage from May 17 to June 2, 1984. Elevation of gage is 4,630 ft, by barometer.

REMARKS.--Reservoir is formed by earthen dam constructed in 1911-13; storage began in 1911. Usable capacity, 77,400 acre-ft between gage heights 0.0 ft, bottom of diversion tunnel, and 138.4 ft, crest of spillway. Silt deposition at the dam has decreased storage capacity, affecting the reliability of the capacity table particularly at the lower elevations. Crest raised in May 1984 from 136.0 ft. Dead storage negligible. Water is used for irrigation of lands along Goose Creek in Oakley Canal Co. project. Figures given herein represent usable contents.

COOPERATION.--Gage readings and capacity table furnished by Oakley Canal Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 75,600 acre-ft May 22, 1984, gage height, 137.0 ft; reservoir drained at close of irrigation season in 1915, 1919-20, 1926, 1933, 1950, 1959, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 63,600 acre-ft June 14, gage height, 126.4 ft; minimum observed, 33,000 acre-ft Sept. 27, gage height, 91.2 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41400	---	---	39600	42000	---	---	---	62000	---	---	38300
2	---	36900	---	---	---	45100	---	---	---	---	45200	---
3	---	---	---	---	---	---	---	55200	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	41200	---	---	---	---	---	---	55800	---	---	---	37200
6	---	---	---	---	---	---	---	---	---	56100	---	---
7	---	---	---	---	---	---	---	---	63200	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	38500	---	42900	45800	---	---	---	---	43600	---
10	---	---	---	---	---	---	50000	56600	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	39800	---	---	---	---	---	---	---	---	52600	---	---
13	---	---	---	---	---	---	50400	---	---	---	---	35500
14	39300	---	38800	---	---	---	50600	57300	63600	---	---	---
15	39100	---	---	39800	---	46200	---	---	---	51200	---	35400
16	---	36700	---	---	---	---	---	---	---	---	42300	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	41100	---	---	---	---	---	49500	---	---
20	---	---	---	---	---	---	51400	---	---	---	---	34300
21	---	---	---	---	---	---	---	59300	62100	---	---	---
22	---	---	---	---	---	47100	---	---	---	---	---	---
23	---	---	---	---	44300	---	---	---	---	---	40400	---
24	---	---	---	---	---	---	---	60000	---	---	40100	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	37600	---	---	---	---	---	52800	---	---	47100	---	---
27	---	---	---	---	---	---	---	---	59600	---	---	33000
28	---	---	---	---	e44900	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	38800	---
30	---	e37800	---	---	---	48200	e54200	---	e58400	---	---	e32600
31	e37100	---	e39500	e41900	---	e48400	---	61700	---	e45700	e38500	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---
†	---	---	---	---	---	---	---	124.5	---	---	---	---
‡	-4000	700	1700	2400	3000	3500	5800	7500	-3300	-12700	-7200	-5900

CAL YR 1998 ‡ 1100
WTR YR 1999 ‡ -8500

† Gage height, in feet, at end of month.
‡ Change in contents, in acre-feet.
e Estimated

GOOSE CREEK BASIN

13084400 BIRCH CREEK ABOVE FEEDER CANAL NEAR OAKLEY, ID

LOCATION.--Lat 42°10'40", long 113°49'05", in SE¼SW¼NE¼ sec.25, T.14 S., R.22 E., Cassia County, Hydrologic Unit 17040211, on right bank 1.0 mi upstream from Birch Creek Feeder Canal, and 6 mi southeast of Oakley.

DRAINAGE AREA.--33.9 mi^2.

PERIOD OF RECORD.--Water years 1973-82 (annual maximum), March to September 1999 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,100 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT PERIOD.--March to September 1999: Maximum discharge, 321 ft^3/s May 2, gage height, 12.54 ft; minimum daily, 3.2 ft^3/s Sept. 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	---	---	---	---	---	e8.5	7.6	60	26	9.6	4.3	3.5
2	---	---	---	---	---	e8.0	8.7	129	27	9.4	4.2	3.6
3	---	---	---	---	---	6.8	9.1	106	36	9.3	4.4	3.7
4	---	---	---	---	---	6.1	9.0	64	28	9.0	4.6	3.7
5	---	---	---	---	---	6.5	9.1	47	25	8.7	4.4	3.5
6	---	---	---	---	---	6.0	10	44	29	8.0	4.3	3.4
7	---	---	---	---	---	6.2	15	40	28	7.7	4.0	3.4
8	---	---	---	---	---	5.8	24	37	22	7.6	4.0	3.5
9	---	---	---	---	---	6.1	21	35	19	7.4	3.8	3.4
10	---	---	---	---	---	6.0	19	33	18	7.1	3.9	3.4
11	---	---	---	---	---	5.9	19	31	16	6.9	4.2	3.5
12	---	---	---	---	---	6.2	25	31	16	6.5	4.3	3.4
13	---	---	---	---	---	5.9	28	35	15	6.4	4.0	3.4
14	---	---	---	---	---	6.6	21	29	17	6.5	3.9	3.3
15	---	---	---	---	---	7.1	17	38	17	6.4	3.8	3.3
16	---	---	---	---	---	7.9	15	35	17	6.2	3.7	3.3
17	---	---	---	---	---	8.3	15	34	15	6.2	3.6	3.2
18	---	---	---	---	---	9.6	15	30	15	6.0	3.5	3.3
19	---	---	---	---	---	13	16	27	14	5.7	3.5	3.3
20	---	---	---	---	---	14	21	27	14	5.5	3.6	3.4
21	---	---	---	---	---	19	16	28	13	5.4	3.6	3.4
22	---	---	---	---	---	17	13	29	13	5.3	3.5	3.5
23	---	---	---	---	---	16	16	30	12	5.1	3.6	3.4
24	---	---	---	---	---	16	15	31	12	4.9	3.9	3.4
25	---	---	---	---	---	15	14	32	12	4.8	3.8	3.5
26	---	---	---	---	---	16	16	33	12	4.7	3.6	3.6
27	---	---	---	---	---	13	19	32	11	4.6	3.5	3.7
28	---	---	---	---	---	10	28	32	11	4.8	3.5	3.7
29	---	---	---	---	---	9.6	28	35	10	5.0	3.6	3.7
30	---	---	---	---	---	9.4	110	32	10	4.8	3.5	3.7
31	---	---	---	---	---	9.1	---	28	---	4.6	3.5	---
TOTAL	---	---	---	---	---	300.6	599.5	1254	530	200.1	119.6	104.1
MEAN	---	---	---	---	---	9.70	20.0	40.5	17.7	6.45	3.86	3.47
MAX	---	---	---	---	---	19	110	129	36	9.6	4.6	3.7
MIN	---	---	---	---	---	5.8	7.6	27	10	4.6	3.5	3.2
AC-FT	---	---	---	---	---	596	1190	2490	1050	397	237	206

e Estimated

SNAKE RIVER BASIN

13087505 LOWER MILNER POWER PLANT AT MILNER, ID

LOCATION.--Lat 42°31'29", long 114°01'46", in NE¼NE¼SE¼ sec.30, T.10 S., R.21 E., Twin Falls County, Hydrologic Unit 17040209, 1.1 mi below Milner Dam.

PERIOD OF RECORD.--November 1992 to current year.

GAGE.--Two ultrasonic flow meters on two pipes connected to data collection platform.

COOPERATION.--Discharge records furnished by Idaho Power and reviewed by U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,680 ft^3/s May 2, 1999; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,680 ft^3/s May 2; minimum daily, 728 ft^3/s Aug. 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	1140	2840	5470	5450	5490	5470	5460	5120	5430	1460	1320	1130
2	1140	2980	5470	5460	5490	5470	4850	5680	5410	1280	1320	1130
3	1140	3280	5470	5460	5490	5460	5430	5660	5400	1300	1320	1130
4	1140	3070	5450	5460	5490	5460	5430	5240	5380	1290	1320	1130
5	1140	2750	5450	5460	5490	5470	5430	4440	4440	1290	1330	1130
6	1140	2760	5450	5390	5490	5460	5420	5550	4990	1280	1330	1130
7	1140	2820	5450	5460	5490	5460	5410	5420	5390	1280	1330	1090
8	1130	2870	5450	5460	5480	5460	5390	3190	5390	1280	1320	1010
9	1130	2760	5450	5470	5470	5460	5500	2890	5400	1290	1330	961
10	1130	3040	5460	5470	5470	5470	4860	5390	5400	1300	1320	961
11	1140	3410	5460	5470	5480	5470	5390	5410	5400	1290	1320	965
12	1140	3530	5460	5470	5480	5090	5390	5410	4910	1280	1330	964
13	1140	3560	5460	5470	5490	4100	5390	5410	4840	1290	1320	961
14	1140	3560	5450	5470	5470	3000	5390	5420	5370	1280	1320	966
15	1140	2990	5460	5470	5470	1180	5400	2930	5380	1260	1330	965
16	1240	1790	5460	5480	5470	1120	5400	3170	5400	1280	1320	981
17	1340	1020	5460	5480	5470	1420	5400	5440	5420	1290	1320	1000
18	1300	2140	5450	5480	5470	4640	5400	5430	5440	1290	1330	1000
19	1240	3360	1060	5480	5460	5480	5400	5430	5400	1290	1330	1000
20	1460	4410	2170	5480	5470	5450	5410	5420	5400	1280	1320	1000
21	1390	5270	3990	5470	5470	5440	5430	5420	5400	1280	1320	1000
22	1330	5510	5370	5470	5470	5430	5450	2910	5400	1290	1320	1010
23	1300	5490	5450	5470	5470	5430	5470	2880	5460	1310	1320	1010
24	1430	5470	5450	5470	5470	5430	5470	5390	5480	1320	1330	1010
25	1510	5470	5450	5470	5470	5430	5490	5410	5460	1330	1320	1010
26	1680	5460	5450	5470	5470	5420	5340	5440	5460	1320	1330	1010
27	2610	5470	5450	5490	5480	5420	4670	5450	5460	1320	1330	1010
28	2400	5470	5440	5480	5470	5420	3950	5450	5150	1330	1330	1010
29	3030	5470	5450	5490	---	5420	3960	5450	3870	1320	1330	1010
30	3300	5470	5100	5490	---	5430	4180	5440	2410	1320	1200	1010
31	3160	---	5450	5490	---	5430	---	5430	---	1330	728	---
TOTAL	46790	113490	159510	169550	153350	151290	156560	152720	155140	40350	40338	30694
MEAN	1509	3783	5145	5469	5477	4880	5219	4926	5171	1302	1301	1023
MAX	3300	5510	5470	5490	5490	5480	5500	5680	5480	1460	1330	1130
MIN	1130	1020	1060	5390	5460	1120	3950	2880	2410	1260	728	961
AC-FT	92810	225100	316400	336300	304200	300100	310500	302900	307700	80030	80010	60880

CAL YR 1998 TOTAL 1351341 MEAN 3702 MAX 5520 MIN 992 AC-FT 2680000
WTR YR 1999 TOTAL 1369782 MEAN 3753 MAX 5680 MIN 728 AC-FT 2717000

SNAKE RIVER BASIN

13087900 MILNER LAKE AT MILNER DAM, ID

LOCATION.--Lat 42°31'25", long 114°00'47", in SW¼NE¼SE¼ sec.29, T.10 S., R.21 E., Twin Falls County, Hydrologic Unit 17040209, near left end of Milner Dam on Snake River at Milner, at mile 639.1.

DRAINAGE AREA.--17,180 mi^2, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--October 1974 to current year. Prior to October 1989, published as "Lake Milner."

GAGE.--Water-stage recorder. Datum of gage is 4,122.51 ft above sea level. October 1974 to May 1978, nonrecording gage at same site and datum.

REMARKS.--Station equipment includes satellite telemetry. Reservoir is formed by a concrete gravity dam constructed in 1904 with first diversions in 1905. The dam is primarily a diversion dam. Capacity is a function of the riverflow and the lake elevation at the dam. No precise limits on capacity can be set, but computations indicate 50,200 acre-ft of usable storage at a lake gage of 11.5 ft and a riverflow of 30,000 ft^3/s, and 11,200 acre-ft at a gage of 1.5 ft and a riverflow of 500 ft^3/s. The capacity table was revised in 1984. Dead storage is 8,000 acre-ft. Water is used for irrigation by canals diverting at the dam and by pumps from the reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 54,500 acre-ft June 25, 1997; maximum gage height, 11.55 ft, Apr. 2, 1999; minimum contents, 10,800 acre-ft Dec. 15, 1988, Mar. 3, 1992; minimum gage height, 1.24 ft, Dec. 26, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 44,400 acre-ft June 13, 14; maximum gage height, 11.55 ft, Apr. 2; minimum contents, 21,900 acre-ft Nov. 13, 14; minimum gage height, 5.75 ft, Nov. 15.

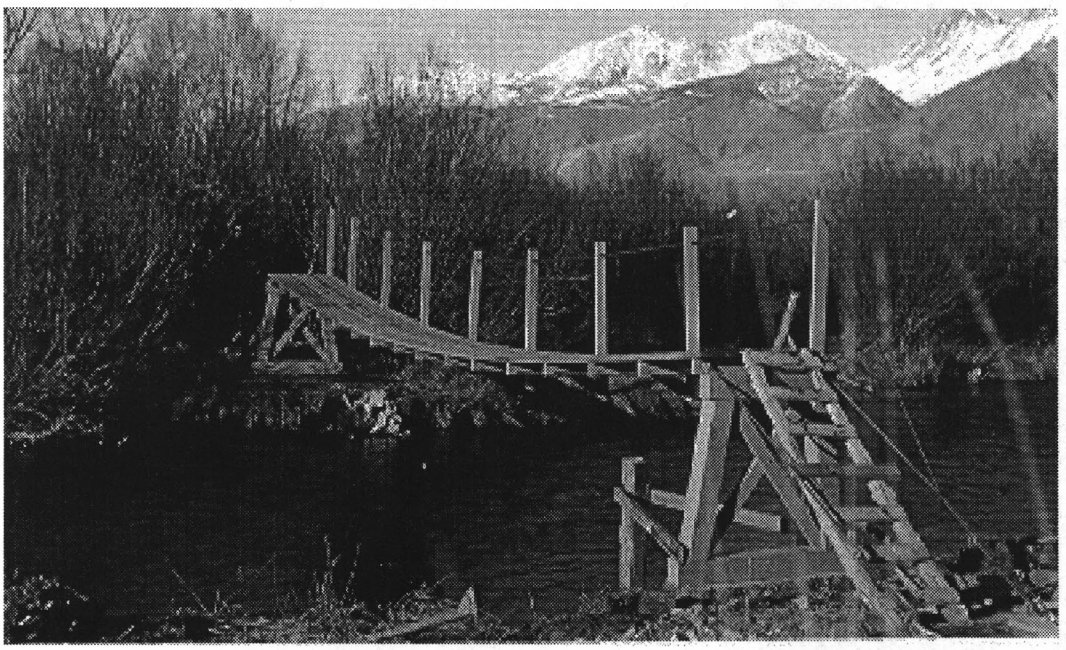
CORRECTIONS.--The minimum contents for calendar year 1997 is 32,300 acre-feet; the previously published figure was not the minimum.

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	35100	28000	35800	34400	37000	37200	37800	38000	40800	38200	39000	37400
2	35400	27400	35600	33900	36400	38000	38500	38100	41600	38400	38800	37200
3	35500	26200	36400	33700	36900	37900	38700	38100	42300	38500	38800	37200
4	35800	24700	35900	33800	36600	37200	39400	36800	43000	38300	38700	37500
5	36000	24000	36300	34100	36400	37400	39400	38000	43700	38500	38800	37500
6	35500	23500	35900	34900	36400	37200	39500	39800	43500	38500	38600	37000
7	34500	22400	36700	35200	36700	36500	40000	41000	43600	37900	38700	36800
8	34200	22800	36500	35700	37000	36400	40400	40600	43800	37900	38800	36800
9	34000	22800	37000	36500	35100	36000	39400	40800	44000	38600	38900	36800
10	34600	23100	36800	36600	37200	35900	39900	41500	43900	38800	38700	36800
11	35600	23400	36400	36400	37400	34500	39900	41400	43900	38800	38700	36800
12	36000	22000	36400	35900	36800	34400	40000	41400	44000	38900	39000	37200
13	35900	21900	36400	36100	37400	34600	38900	41400	44400	38700	38600	37100
14	35700	21900	36200	35800	36400	34000	39500	41100	44400	37900	37500	37000
15	35000	23000	36400	36100	36400	33400	39800	40300	43800	38000	37600	36900
16	34800	26100	36500	35900	36100	33000	39800	41800	42600	38000	37700	36700
17	34900	28200	36300	36300	35900	34000	40000	42200	41800	38700	37700	36400
18	34400	30100	37100	36500	35900	34700	40000	41500	41000	38900	37700	36300
19	34800	32300	e29600	36700	36000	34800	39800	41700	41200	39200	38200	36600
20	35100	33300	e32900	36700	37100	35900	39200	41300	41500	38300	38800	36700
21	35000	34400	e34400	37100	35600	37800	38200	41700	41300	38200	38800	36800
22	35200	35600	e34900	36900	35900	38600	38600	41100	41200	38000	38700	36700
23	35300	36000	e35000	36500	36000	38600	38900	41100	41400	38400	38500	36400
24	35200	36900	e34900	36400	36100	38900	38500	41100	40800	38600	37900	36100
25	35000	36400	e35000	35900	35900	38700	38000	40600	41400	38800	37500	35700
26	34900	36200	e35000	35700	36700	38700	37800	40600	41600	38800	37700	35800
27	33800	36200	e35000	36900	36800	38400	36500	40200	41000	38700	38100	36300
28	32600	36300	e35200	36500	36900	38400	37200	40600	40000	38400	38100	36400
29	31100	36500	35600	36400	---	38400	37600	40800	39000	38200	38100	35900
30	29600	36100	35000	35200	---	38100	37600	40700	38200	38200	37000	35600
31	28600	---	34500	36400	---	37800	---	40500	---	38600	37800	---
MAX	36000	36900	37100	37100	37400	38900	40400	42200	44400	39200	39000	37500
MIN	28600	21900	29600	33700	35100	33000	36500	36800	38200	37900	37000	35600
†	8.81	10.75	9.97	10.75	10.86	10.58	11.04	10.59	10.75	10.96	11.03	10.81
‡	-6000	7500	-1600	1900	500	900	-200	2900	-2300	400	-800	-2200

WTR YR 1999 MA+ 44400 MIN 21900 ‡ 1000
CAL YR 1998 MAX 43300 MIN 21900 ‡ -1700

† Gage height, in feet, at end of month.
‡ Change in contents, in acre-feet.
e Estimated



Measuring bridge for Warmsprings Creek near Mackay, Idaho (Dec. 8, 1938)

SNAKE RIVER MAIN STEM

13087995 SNAKE RIVER GAGING STATION AT MILNER, ID

LOCATION.--Lat 42°31'41", long 114°01'04", in SW¼NE¼ sec.29, T.10 S., R.21 E., Twin Falls County, Hydrologic Unit 17040212, on left bank 200 ft downstream from highway bridge at Milner, 0.4 mi downstream from Milner Dam, and at mile 638.7.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,062.9 ft above sea level.

REMARKS.--Records fair. No estimated daily discharges. Station equipment includes satellite telemetry. Flow regulated by American Falls Reservoir, Lake Walcott, Milner Lake, and other reservoirs having a combined usable capacity of about 4,700,000 acre-ft. The flow at this site represents discharge to Snake River passing through Milner Dam. Former station number for this gaging station, 13088000, represents combined flow to Snake River from this site and from 13087505 Lower Milner Power Plant, which began operation November 1992. Considerable water leaks into the Snake River Plain aquifer above station. Diversions above station for irrigation of about 1,990,000 acres, of which about 504,000 acres are irrigated by withdrawals from ground water, and about 436,000 acres are irrigated below station. Return flow in large part enters Snake River between Milner and King Hill stations. Prior to 1993 water year, at times, practically entire flow was diverted during irrigation season.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,300 ft^3/s June 22, 1997, gage height, 21.14 ft; minimum daily, 209 ft^3/s July 14, 1997, Apr. 29 to May 1, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,600 ft^3/s June 5, 13, gage height, 15.51 ft; minimum daily, 209 ft^3/s April 29 to May 1.

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	464	263	2430	3540	2300	2350	2980	209	4020	221	221	384
2	412	261	2240	3470	2300	2380	3070	669	6370	223	221	413
3	414	256	2220	3310	2040	2540	4860	1490	8050	227	221	413
4	416	250	2990	3180	2130	2580	4350	925	9290	226	222	413
5	417	247	3220	3000	2160	2570	5090	1140	10600	226	221	381
6	417	244	3100	2950	2040	2580	6750	3600	11100	226	220	287
7	414	238	3020	2960	2080	2560	7850	5370	11000	227	220	236
8	413	244	3010	2980	2690	2560	8330	9340	11600	243	220	216
9	415	248	3100	3090	3020	2490	8070	9480	11400	229	221	215
10	415	248	3220	3120	2690	2130	8620	6550	11200	230	222	214
11	418	251	3240	3160	2800	1350	7830	6600	11000	232	223	215
12	499	251	3240	3200	2900	461	7580	7000	11300	233	224	216
13	600	250	3130	3200	2250	285	7010	6930	11200	234	224	216
14	604	249	2970	3180	3080	284	6940	6590	10600	234	226	217
15	600	249	2850	3100	2930	1520	6960	9150	10700	233	223	217
16	396	254	2860	2820	2780	1560	6760	8810	8600	233	223	231
17	240	252	2850	2620	2690	1390	6680	6750	5980	232	222	237
18	240	992	2920	2600	2700	370	6670	7130	4440	234	221	227
19	241	271	7030	2600	2640	1160	6010	6640	3680	233	222	227
20	240	283	4850	2870	2580	2490	5060	7570	3770	233	222	228
21	239	240	4370	3120	2640	3470	4250	7580	4070	233	225	233
22	240	556	3540	3370	2680	4370	2960	9760	3220	233	224	230
23	241	1490	3390	3440	2600	4880	2560	9100	2410	232	233	230
24	240	2000	3290	3370	2490	5130	1690	6060	1740	230	225	230
25	240	2480	3230	3330	2370	5200	925	4920	2380	229	255	231
26	242	2430	3300	3150	2270	5200	569	3030	2560	227	270	231
27	241	2320	3300	2340	2330	5170	333	2700	2490	225	254	231
28	241	2320	3360	2880	2370	5180	219	2780	905	223	239	231
29	274	2320	3110	2750	---	4800	209	3080	238	224	246	230
30	290	2400	2110	2470	---	4300	209	3280	221	222	377	252
31	266	---	3620	2280	---	4200	---	3640	---	221	954	---
TOTAL	11029	24357	101110	93450	70550	87510	141394	167873	196134	7108	7941	7732
MEAN	356	812	3262	3015	2520	2823	4713	5415	6538	229	256	258
MAX	604	2480	7030	3540	3080	5200	8620	9760	11600	243	954	413
MIN	239	238	2110	2280	2040	284	209	209	221	221	220	214
AC-FT	21880	48310	200600	185400	139900	173600	280500	333000	389000	14100	15750	15340

CAL YR 1998 TOTAL 787768 MEAN 2158 MAX 11700 MIN 216 AC-FT 1563000
WTR YR 1999 TOTAL 916188 MEAN 2510 MAX 11600 MIN 209 AC-FT 1817000

SNAKE RIVER MAIN STEM

13087995 SNAKE RIVER GAGING STATION AT MILNER, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1965, May 1986, November 1990 to September 1991, October 1992 to September 1993, June 1994 to September 1995, March 1996 to September 1997, April 1999 to September 1999 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 14, 1999 to September 8, 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 22.8 ° C Aug. 24.

REMARKS.--Prior to November 1994, published "13088000 Snake River at Milner, ID". See water-discharge records remarks.

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)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
19...	0915	6390	428	8.6	13.0	7.7	7.1	11.2	109	K7	50
MAY											
13...	0930	6980	429	8.4	4.5	8.6	15	10.9	110	<1	23
JUN											
15...	0845	10800	381	8.2	19.5	16.8	2.5	9.4	114	K11	25
JUL											
12...	1145	235	343	8.6	27.5	20.5	5.0	9.1	116	K7	38
AUG											
19...	0845	225	360	8.7	18.5	21.5	3.8	--	--	--	13
SEP											
10...	0830	216	372	8.8	17.5	16.1	3.5	8.0	95	53	21

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
10...	160	42	13	15	17	3.1	140	8

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
10...	125	29	15	.57	14	206	.28	120

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 TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
19...	<.010	.171	<.020	.52	.066	.015	32	552
MAY								
13...	<.010	.094	<.020	.42	E.035	.012	29	547
JUN								
15...	<.010	<.050	<.020	.50	.063	<.010	274	7990
JUL								
12...	<.010	.088	<.020	.40	.101	.026	12	7.6
AUG								
19...	<.010	<.050	<.020	.58	.097	.019	21	13
SEP								
10...	<.010	<.050	<.020	.64	.100	.017	15	8.7

E Positive detection, but below stated detection limit.
K Results based on counts outside ideal colony range.

SNAKE RIVER MAIN STEM

13087995 SNAKE RIVER GAGING STATION AT MILNER, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	---	---	---
2	---	---	---	---	---	---
3	---	---	---	---	---	---
4	---	---	---	---	---	---
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	---	---	---	---	---	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---
11	---	---	---	---	---	---
12	---	---	---	---	---	---
13	---	---	---	---	---	---
14	---	---	---	9.9	9.3	9.6
15	---	---	---	10.1	9.6	9.8
16	---	---	---	9.8	9.3	9.5
17	---	---	---	10.5	9.4	10.0
18	---	---	---	11.3	10.4	10.8
19	---	---	---	11.6	10.8	11.2
20	---	---	---	12.2	11.6	11.9
21	---	---	---	13.0	11.8	12.5
22	---	---	---	13.1	12.7	12.9
23	---	---	---	14.1	13.0	13.5
24	---	---	---	15.2	14.1	14.6
25	---	---	---	16.1	14.9	15.6
26	---	---	---	15.8	14.9	15.6
27	---	---	---	15.3	14.2	14.8
28	---	---	---	16.1	15.0	15.6
29	---	---	---	16.1	15.0	15.6
30	---	---	---	15.8	15.0	15.5
31	---	---	---	15.0	14.7	14.8
MONTH	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	15.3	14.5	14.9	---	---	---	21.8	20.9	21.2	19.0	17.9	18.5
2	14.7	13.6	14.3	---	---	---	21.9	20.9	21.4	18.3	17.5	18.0
3	14.2	13.5	13.8	---	---	---	21.9	20.9	21.2	18.0	17.4	17.7
4	14.2	13.9	14.1	---	---	---	22.3	21.1	21.5	17.9	17.1	17.4
5	14.4	14.1	14.3	---	---	---	22.1	21.3	21.5	18.7	17.1	17.9
6	14.2	13.3	13.8	---	---	---	22.4	21.4	21.9	19.0	18.2	18.5
7	14.4	13.3	13.7	---	---	---	22.1	21.3	21.7	18.2	17.2	17.8
8	14.4	13.9	14.1	---	---	---	21.9	20.9	21.5	17.7	16.7	17.2
9	14.1	13.6	13.7	19.5	18.5	19.0	22.1	20.9	21.4	---	---	---
10	14.9	13.9	14.3	20.1	18.7	19.5	22.1	20.9	21.5	---	---	---
11	15.3	14.9	15.0	20.9	19.6	20.3	21.3	20.0	20.7	---	---	---
12	16.4	15.3	15.7	21.4	20.1	20.8	20.6	19.8	20.1	---	---	---
13	17.1	16.4	16.7	21.9	20.6	21.2	20.8	20.0	20.4	---	---	---
14	17.5	16.7	17.1	21.8	20.4	21.1	21.6	20.4	20.9	---	---	---
15	17.9	17.4	17.6	21.1	19.8	20.5	20.9	20.0	20.5	---	---	---
16	18.2	17.7	18.0	20.6	19.8	20.1	20.9	19.8	20.3	---	---	---
17	18.7	18.0	18.2	21.3	20.1	20.5	21.4	20.0	20.6	---	---	---
18	19.5	18.7	19.1	21.1	20.0	20.5	21.8	20.4	21.1	---	---	---
19	19.6	19.0	19.2	21.1	20.0	20.5	22.4	20.9	21.6	---	---	---
20	19.6	19.0	19.4	21.8	20.6	21.1	22.4	21.3	21.7	---	---	---
21	20.0	19.6	19.8	21.8	20.6	21.1	21.9	20.9	21.4	---	---	---
22	19.6	18.7	19.3	21.8	20.8	21.2	21.9	20.9	21.4	---	---	---
23	19.0	18.5	18.7	22.3	20.9	21.6	22.6	21.6	22.0	---	---	---
24	19.5	18.3	18.9	22.3	20.9	21.7	22.8	21.6	22.0	---	---	---
25	19.0	18.0	18.5	21.6	20.6	21.1	22.3	21.4	21.9	---	---	---
26	18.0	17.7	17.9	21.4	20.4	20.9	22.4	21.4	21.9	---	---	---
27	---	---	---	22.6	20.9	21.8	22.3	21.4	21.7	---	---	---
28	---	---	---	23.1	21.9	22.3	22.6	21.4	21.8	---	---	---
29	---	---	---	22.6	21.3	21.8	22.3	21.3	21.7	---	---	---
30	---	---	---	21.8	21.1	21.4	22.1	20.6	21.5	---	---	---
31	---	---	---	21.9	21.1	21.5	20.6	18.8	19.9	---	---	---
MONTH	---	---	---	---	---	---	22.8	18.8	21.3	---	---	---

SNAKE RIVER MAIN STEM

13088000 SNAKE RIVER AT MILNER, ID

(COMBINATION SNAKE RIVER AT MILNER GAGING STATION AND LOWER MILNER POWER PLANT AT MILNER)

LOCATION.--Lat 42°31'41", long 114°01'04", in SW¼NE¼ sec.29, T.10 S., R.21 E., Twin Falls County, Hydrologic Unit 17040212, on left bank 200 ft downstream from highway bridge at Milner, 0.4 mi downstream from Milner Dam, and at mile 638.7.

DRAINAGE AREA.--17,180 mi^2, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--May 1909 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1347: 1909-12, 1915-16, 1942-44, 1946-48.

GAGE.--Water-stage recorder. Datum of gage is 4,062.9 ft above sea level. Prior to May 28, 1919, nonrecording gages at slightly different sites and datums.

REMARKS.--Records fair. Flow regulated by American Falls Reservoir, Lake Walcott, Milner Lake, and other reservoirs having a combined usable capacity of about 4,700,000 acre-ft. The flow at this site represents combined flow to Snake River from 13087995 Snake River Gaging Station at Milner and 13087505 Lower Milner Power Plant, which began operation November 1992. Considerable water leaks into the Snake River Plain aquifer above station. Diversions above station for irrigation of about 1,990,000 acres, of which about 504,000 acres are irrigated by withdrawals from ground water, and about 436,000 acres are irrigated below station. Return flow in large part enters Snake River between Milner and King Hill stations. Prior to 1993 water year, at times, practically entire flow was diverted during irrigation season.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1909-1926), 40,000 ft^3/s June 212, 1918, gage height, 19.9 ft, site and datum then in use; minimum daily, 8.0 ft^3/s Aug. 22, 1924. Maximum daily discharge since regulation (1927-98) 31,200 ft^3/s June 21, 1997; minimum daily, 0.85 ft^3/s June 4, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 17,000 ft^3/s June 8; minimum daily, 1,180 ft^3/s Sept. 9-15.

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	1600	3100	7900	8990	7790	7820	8440	5330	9450	1680	1540	1510
2	1550	3240	7710	8930	7790	7850	7920	6350	11800	1500	1540	1540
3	1550	3540	7690	8770	7530	8000	10300	7150	13400	1530	1540	1540
4	1560	3320	8440	8640	7620	8040	9780	6160	14700	1520	1540	1540
5	1560	3000	8670	8460	7650	8040	10500	5580	15000	1520	1550	1510
6	1560	3000	8550	8340	7530	8040	12200	9150	16100	1510	1550	1420
7	1550	3060	8470	8420	7570	8020	13300	10800	16400	1510	1550	1330
8	1540	3110	8460	8440	8170	8020	13700	12500	17000	1520	1540	1230
9	1540	3010	8550	8560	8490	7950	13600	12400	16800	1520	1550	1180
10	1540	3290	8680	8590	8160	7600	13500	11900	16600	1530	1540	1180
11	1560	3660	8700	8630	8280	6820	13200	12000	16400	1520	1540	1180
12	1640	3780	8700	8670	8380	5550	13000	12400	16200	1510	1550	1180
13	1740	3810	8590	8670	7740	4380	12400	12300	16000	1520	1540	1180
14	1740	3810	8420	8650	8550	3280	12300	12000	16000	1510	1550	1180
15	1740	3240	8310	8570	8400	2700	12400	12100	16100	1490	1550	1180
16	1640	2040	8320	8300	8250	2680	12200	12000	14000	1510	1540	1210
17	1580	1270	8310	8100	8160	2810	12100	12200	11400	1520	1540	1240
18	1540	3130	8370	8080	8170	5010	12100	12600	9880	1520	1550	1230
19	1480	3630	8090	8080	8100	6640	11400	12100	9080	1520	1550	1230
20	1700	4690	7020	8350	8050	7940	10500	13000	9170	1510	1540	1230
21	1630	5510	8360	8590	8110	8910	9680	13000	9470	1510	1540	1230
22	1570	6070	8910	8840	8150	9800	8410	12700	8620	1520	1540	1240
23	1540	6980	8840	8910	8070	10300	8030	12000	7870	1540	1550	1240
24	1670	7470	8740	8840	7960	10600	7160	11400	7220	1550	1560	1240
25	1750	7950	8680	8800	7840	10600	6420	10300	7840	1560	1580	1240
26	1920	7890	8750	8620	7740	10600	5910	8470	8020	1550	1600	1240
27	2850	7790	8750	7830	7810	10600	5000	8150	7950	1540	1580	1240
28	2640	7790	8800	8360	7840	10600	4170	8230	6060	1550	1570	1240
29	3300	7790	8560	8240	---	10200	4170	8530	4110	1540	1580	1240
30	3590	7870	7210	7960	---	9730	4390	8720	2630	1540	1580	1260
31	3430	---	9070	7770	---	9630	---	9070	---	1550	1680	---
TOTAL	57800	137840	260620	263000	223900	238760	298180	320590	351270	47420	48250	38430
MEAN	1865	4595	8407	8484	7996	7702	9939	10340	11710	1530	1556	1281
MAX	3590	7950	9070	8990	8550	10600	13700	13000	17000	1680	1680	1540
MIN	1480	1270	7020	7770	7530	2680	4170	5330	2630	1490	1540	1180
AC-FT	114600	273400	516900	521700	444100	473600	591400	635900	696700	94060	95700	76230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1926, BY WATER YEAR (WY) (UNREGULATED)[a]

MEAN	4553	5806	4968	4620	5090	5336	6204	9891	12300	3849	743	1736
MAX	9500	8147	6978	5721	6306	10970	14650	17920	29230	15650	4899	8457
(WY)	1913	1913	1910	1910	1911	1910	1910	1910	1909	1909	1909	1912
MIN	9.45	3711	3326	2924	3737	3238	857	13.5	12.0	11.4	9.97	10.1
(WY)	1925	1920	1920	1917	1917	1920	1924	1924	1924	1915	1924	1924

SUMMARY STATISTICS	[a] WATER YEARS 1909 - 1926	
ANNUAL MEAN	5206	
HIGHEST ANNUAL MEAN	8042	1913
LOWEST ANNUAL MEAN	2424	1924
HIGHEST DAILY MEAN	39800	Jun 21 1918
LOWEST DAILY MEAN	8.0	Aug 22 1924
ANNUAL SEVEN-DAY MINIMUM	8.3	Aug 21 1924
ANNUAL RUNOFF (AC-FT)	3772000	
10 PERCENT EXCEEDS	11200	
50 PERCENT EXCEEDS	4700	
90 PERCENT EXCEEDS	16	

SNAKE RIVER MAIN STEM

13088000 SNAKE RIVER AT MILNER, ID--Continued

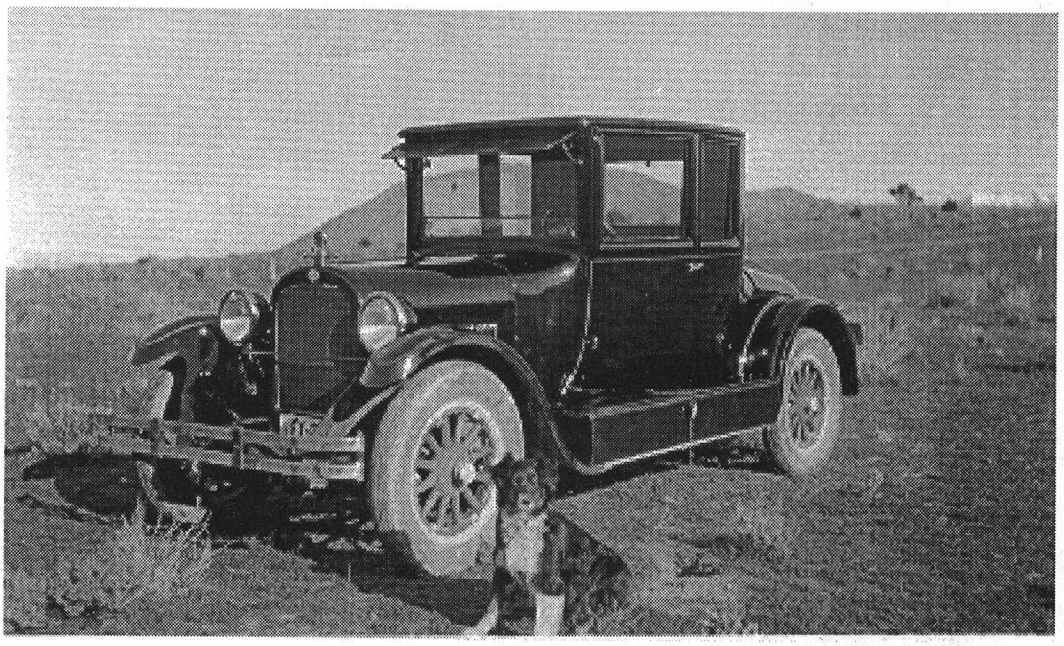
(COMBINATION SNAKE RIVER AT MILNER GAGING STATION AND LOWER MILNER POWER PLANT AT MILNER)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1999, BY WATER YEAR (WY)(REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1748	2531	3183	3661	3791	4055	5018	4212	4168	900	451	553
MAX	9887	12660	11450	13960	18740	19930	19380	16770	23580	6069	3899	6778
(WY)	1985	1985	1984	1984	1997	1997	1971	1984	1997	1927	1997	1997
MIN	2.39	142	281	360	213	87.0	3.95	2.81	1.65	1.52	2.03	6.00
(WY)	1991	1935	1937	1938	1938	1934	1990	1990	1992	1992	1992	1961

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1927 - 1999	
ANNUAL TOTAL	2139080		2286060			
ANNUAL MEAN	5860		6263		2847	
HIGHEST ANNUAL MEAN					9432	1984
LOWEST ANNUAL MEAN					156	1935
HIGHEST DAILY MEAN	16700	May 25	17000	Jun 8	31200	Jun 21 1997
LOWEST DAILY MEAN	1270	Nov 17	1180	Sep 9	.85	Jun 4 1990
ANNUAL SEVEN-DAY MINIMUM	1510	Jul 9	1180	Sep 9	1.1	Jul 14 1992
ANNUAL RUNOFF (AC-FT)	4243000		4534000		2062000	
10 PERCENT EXCEEDS	11000		12100		8910	
50 PERCENT EXCEEDS	6140		7740		809	
90 PERCENT EXCEEDS	1540		1510		13	

a Prior to regulation by American Falls Dam.
b Since regulation by American Falls Dam.



USGS Field Vehicle from Field Office at Idaho Falls, Idaho (April 30, 1925)

COTTONWOOD CREEK BASIN

13088510 COTTONWOOD CREEK NEAR OAKLEY, ID

LOCATION.--Lat 42°17'39", long 114°01'08", in NW¼NE¼ sec.17, T.13 S., R.21 E., Cassia County, Hydrologic Unit 17040211, on left bank0.85 mi upstream from culvert on Big Cedar Road, approximately 8 mi northwest of Oakely.

PERIOD OF RECORD.--August 1993 to September 1997, March to September 1999 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 4,720 ft above sea level, from topographic map.

REMARKS.--Records fair except for discharges May 19 to July 8, which are poor. No diversions or regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 216 ft^3/s May 11, 1997; no flow Sept. 26, Oct 1, 2, 1994.

EXTREMES FOR CURRENT PERIOD.--March to September 1999: Maximum daily discharge, 181 ft^3/s May 25; minimum daily, 1.3 ft^3/s Sept. 12, 13, 16, 17, 21-23.

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	24	90	12	3.8	1.8
2	---	---	---	---	---	---	5.0	28	88	12	3.6	1.8
3	---	---	---	---	---	---	3.8	35	78	11	3.7	1.8
4	---	---	---	---	---	3.3	4.0	42	69	11	4.4	1.9
5	---	---	---	---	---	3.2	3.9	40	64	10	4.1	1.8
6	---	---	---	---	---	3.4	4.0	37	63	9.8	3.5	1.6
7	---	---	---	---	---	3.6	3.5	40	58	10	3.3	1.5
8	---	---	---	---	---	3.5	3.7	50	52	8.0	3.2	1.6
9	---	---	---	---	---	3.6	3.3	61	48	7.5	3.1	1.5
10	---	---	---	---	---	3.3	3.2	59	44	9.3	3.0	1.5
11	---	---	---	---	---	3.4	4.1	55	39	8.7	3.2	1.4
12	---	---	---	---	---	2.8	4.3	58	36	8.3	3.2	1.3
13	---	---	---	---	---	2.8	5.2	70	33	7.6	2.9	1.3
14	---	---	---	---	---	3.0	6.0	73	31	7.4	2.7	1.4
15	---	---	---	---	---	3.1	4.8	70	30	7.3	2.6	1.4
16	---	---	---	---	---	3.3	5.3	59	29	6.9	2.5	1.3
17	---	---	---	---	---	3.2	5.8	64	28	6.7	2.4	1.3
18	---	---	---	---	---	3.3	7.2	73	26	6.6	2.2	1.4
19	---	---	---	---	---	3.7	12	89	25	6.3	2.2	1.4
20	---	---	---	---	---	4.4	17	117	23	5.9	2.3	1.4
21	---	---	---	---	---	5.1	17	164	22	5.7	2.3	1.3
22	---	---	---	---	---	5.9	14	175	21	5.5	2.0	1.3
23	---	---	---	---	---	5.9	14	e180	20	5.0	1.9	1.3
24	---	---	---	---	---	6.0	13	e180	19	4.8	2.0	1.4
25	---	---	---	---	---	6.9	15	181	18	4.7	1.9	1.4
26	---	---	---	---	---	8.3	19	175	17	4.6	1.7	1.4
27	---	---	---	---	---	7.7	27	149	16	4.4	1.6	1.5
28	---	---	---	---	---	6.5	35	139	15	4.5	1.7	1.6
29	---	---	---	---	---	6.7	32	145	14	4.9	1.8	1.7
30	---	---	---	---	---	5.7	27	124	13	4.5	1.6	1.7
31	---	---	---	---	---	5.2	---	102	---	4.1	1.7	---
TOTAL	---	---	---	---	---	---	323.8	2858	1129	225.0	82.1	45.0
MEAN	---	---	---	---	---	---	10.8	92.2	37.6	7.26	2.65	1.50
MAX	---	---	---	---	---	---	35	181	90	12	4.4	1.9
MIN	---	---	---	---	---	---	3.2	24	13	4.1	1.6	1.3
AC-FT	---	---	---	---	---	---	642	5670	2240	446	163	89

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

MEAN	1.30	2.04	2.38	2.40	2.57	5.66	24.7	71.5	28.1	5.99	2.13	1.32
MAX	1.66	3.10	5.90	4.18	3.66	7.43	49.9	111	37.7	7.75	3.52	2.46
(WY)	1996	1997	1996	1996	1996	1996	1996	1997	1995	1995	1997	1997
MIN	.70	1.20	1.15	.80	1.42	2.47	10.8	22.7	5.51	.76	.20	.032
(WY)	1995	1995	1997	1995	1994	1994	1999	1994	1994	1994	1994	1994

SUMMARY STATISTICS	WATER YEARS 1993 - 1999	
ANNUAL MEAN	12.2	
HIGHEST ANNUAL MEAN	16.9	1996
LOWEST ANNUAL MEAN	4.16	1994
HIGHEST DAILY MEAN	216	May 11 1997
LOWEST DAILY MEAN	.00	Sep 26 1994
ANNUAL SEVEN-DAY MINIMUM	.01	Sep 20 1994
ANNUAL RUNOFF (AC-FT)	8820	
10 PERCENT EXCEEDS	42	
50 PERCENT EXCEEDS	2.9	
90 PERCENT EXCEEDS	.98	

e Estimated

DEVILS WASHBOWL SPRING BASIN

13089500 DEVILS WASHBOWL SPRING NEAR KIMBERLY, ID

LOCATION.--Lat 42°35'23", long 114°20'46", in SE¼ sec.4, T.10 S., R.18 E., Jerome County, Hydrologic Unit 17040212, on right bank, 400 ft downstream from Devils Washbowl Spring, 0.5 mi upstream from mouth, which is 0.5 mi upstream from the Twin Falls of the Snake River, and 3.5 mi north of Kimberly.

PERIOD OF RECORD.--April 1950 to September 1959; April 1985 to current year. Records for April 1950 to September 1959 may not be comparable due to changes in inflow.

GAGE.--Water-stage recorder. Elevation of gage is 3,540 ft above sea level, from topographic map. Datum of gage prior to May 16, 1953 was 0.82 ft lower.

REMARKS.--Records fair. Irrigation return bypass channel is located downstream from the gage on the right bank.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge (1950-59), 27.5 ft^3/s Oct. 3, 4, 1951; minimum daily, 18 ft^3/s Apr. 29, 1958. Maximum daily discharge (1986-97), 19 ft^3/s Sept. 26, 1986; minimum daily, 6.5 ft^3/s Mar. 20, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 17.0 ft^3/s on many days June 30 to Sept. 27; minimum daily, 13 ft^3/s on many days Dec. 9 to May 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	15	e15	e14	14	13	13	14	14	14	17	16	16
2	15	e15	e14	14	13	13	14	14	14	17	17	16
3	15	e15	e14	14	13	13	14	14	15	17	17	16
4	15	e15	e14	14	13	13	14	14	15	17	17	16
5	15	e15	e14	14	13	13	14	14	15	17	17	15
6	15	e15	e14	14	13	13	14	14	15	17	16	16
7	15	e15	e14	14	13	13	13	14	15	17	16	16
8	15	e15	14	14	13	13	14	14	15	17	16	16
9	15	e15	13	14	13	13	14	14	15	17	16	16
10	15	e15	13	14	13	13	14	14	15	17	17	16
11	15	e15	13	14	13	13	14	14	15	17	17	16
12	15	e14	13	14	13	13	13	14	15	17	16	16
13	15	e14	14	14	13	13	13	14	15	17	17	16
14	15	e14	14	14	13	13	13	14	15	17	16	16
15	14	e14	14	14	13	13	13	14	15	17	16	16
16	14	e14	14	14	13	13	13	14	15	17	17	16
17	14	e14	14	14	13	13	14	14	15	16	17	16
18	14	e14	14	14	13	13	14	14	15	17	17	16
19	e15	e14	14	14	13	13	14	14	15	17	17	16
20	e15	e14	13	14	13	13	14	14	15	16	17	16
21	e15	e14	13	14	13	13	14	13	15	16	17	16
22	e15	e14	13	14	13	13	14	13	16	17	17	17
23	e15	e14	13	14	13	13	13	13	15	17	17	16
24	e15	e14	14	14	13	13	14	13	15	16	17	16
25	e15	e14	14	14	13	13	14	13	16	16	17	16
26	e15	e14	14	14	13	13	14	14	16	16	17	17
27	e15	e14	14	13	13	13	14	14	16	17	17	17
28	e15	e14	14	13	13	13	14	14	16	17	17	16
29	e15	e14	14	13	---	13	14	14	16	16	17	16
30	e15	e14	14	13	---	13	14	14	17	16	16	16
31	e15	---	14	13	---	14	---	14	---	16	16	---
TOTAL	461	431	426	429	364	404	413	429	456	518	517	482
MEAN	14.9	14.4	13.7	13.8	13.0	13.0	13.8	13.8	15.2	16.7	16.7	16.1
MAX	15	15	14	14	13	14	14	14	17	17	17	17
MIN	14	14	13	13	13	13	13	13	14	16	16	15
AC-FT	914	855	845	851	722	801	819	851	904	1030	1030	956

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1959, BY WATER YEAR (WY) [a]

MEAN	24.7	24.1	22.7	22.2	21.9	21.2	20.6	20.1	21.1	21.9	23.0	24.3
MAX	25.9	26.1	24.6	24.0	23.2	22.2	22.0	21.8	22.8	25.2	24.9	25.8
(WY)	1953	1953	1958	1958	1958	1952	1954	1953	1954	1957	1957	1957
MIN	22.8	22.2	20.9	20.1	20.5	19.2	19.1	18.0	19.0	19.6	20.8	22.4
(WY)	1956	1957	1957	1956	1956	1957	1956	1958	1958	1959	1959	1959

SUMMARY STATISTICS	[a] WATER YEARS 1950 - 1959	
ANNUAL MEAN	22.3	
HIGHEST ANNUAL MEAN	23.2	1954
LOWEST ANNUAL MEAN	21.1	1956
HIGHEST DAILY MEAN	27.5	Oct 3 1951
LOWEST DAILY MEAN	18	Apr 29 1958
ANNUAL SEVEN-DAY MINIMUM	18	Apr 29 1958
ANNUAL RUNOFF (AC-FT)	16160	
10 PERCENT EXCEEDS	25	
50 PERCENT EXCEEDS	22	
90 PERCENT EXCEEDS	20	

DEVILS WASHBOWL SPRING BASIN

13089500 DEVILS WASHBOWL SPRING NEAR KIMBERLY, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1999, BY WATER YEAR (WY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	14.9	14.1	13.0	12.3	11.9	11.8	11.8	11.4	12.2	13.0	14.1	15.0
MAX	17.5	16.0	15.5	14.0	13.7	14.1	14.1	13.8	15.2	16.7	16.7	17.9
(WY)	1987	1988	1988	1988	1987	1992	1986	1999	1999	1999	1999	1986
MIN	12.9	11.2	9.15	8.19	7.97	8.92	9.96	9.77	9.46	9.65	11.8	12.5
(WY)	1993	1995	1993	1993	1995	1993	1998	1996	1995	1995	1995	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1986 - 1999	
ANNUAL TOTAL	4745.5		5330			
ANNUAL MEAN	13.0		14.6		13.0	
HIGHEST ANNUAL MEAN					14.7	1987
LOWEST ANNUAL MEAN					10.6	1995
HIGHEST DAILY MEAN	16	Jul 20	17	Jun 30	19	Sep 26 1986
LOWEST DAILY MEAN	9.1	Apr 25	13	Dec 9	6.5	Mar 20 1993
ANNUAL SEVEN-DAY MINIMUM	9.3	Apr 22	13	Jan 27	7.0	Mar 18 1993
ANNUAL RUNOFF (AC-FT)	9410		10570		9400	
10 PERCENT EXCEEDS	15		17		16	
50 PERCENT EXCEEDS	13		14		13	
90 PERCENT EXCEEDS	10		13		10	

a Statistics for this period may not be comparable due to changes in inflow.
e Estimated

SNAKE RIVER MAIN STEM

13090000 SNAKE RIVER NEAR KIMBERLY, ID

LOCATION.--Lat 42°35'28", long 114°21'34", in NE¼NW¼ sec.4, T.10 S., R.18 E., Twin Falls County, Hydrologic Unit 17040212, on left bank 1,200 ft downstream from Twin Falls powerplant, 2.4 mi upstream from Shoshone Falls, 4 mi north of Kimberly, and at mile 617.2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1923 to current year.

REVISED RECORDS.--WSP 1347: 1924-26, 1928-30, 1942-44, 1946-48.

GAGE.--Water-stage recorder. Datum of gage is 3,362.67 ft above sea level (levels by Idaho Power Co.). Prior to Aug. 31, 1938, at site 2,000 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by American Falls Reservoir 96.5 mi upstream and other reservoirs having a combined usable capacity of 4,700,000 acre-ft. Diurnal fluctuation caused by hydroelectric powerplant 1,200 ft upstream. At times practically the entire flow is diverted at Milner during irrigation season; no diversions between Milner and Kimberly. Diversion above station for irrigation of about 2,020,000 acres, of which about 537,000 acres are irrigated by withdrawals from ground water and about 364,000 acres are irrigated below the station. Considerable water leaks into the Snake River Plain aquifer upstream, a small part of which returns through springs a few miles above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,200 ft³/s June 21, 1997, gage height, 23.27 ft; minimum recorded, 10 ft³/s May 17, 1944, gage height, 1.15 ft; minimum daily recorded, 95 ft³/s Apr. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,000 ft³/s June 8, gage height, 17.86 ft; minimum daily, 1,660 ft³/s Sept. 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	2200	3530	7990	9180	7900	7980	9100	5330	9510	2300	2060	2000
2	2010	3440	7830	9060	7950	7970	7290	6130	11700	1890	2050	2020
3	2040	3870	7700	8930	7610	8130	10600	7090	13400	1920	2040	2030
4	2040	3780	8460	8770	7690	8220	9950	6500	14700	1920	2050	2030
5	2040	3300	8820	8580	7740	8210	10400	4540	15000	1930	2110	2030
6	2050	3380	8730	8480	7640	8210	12000	8980	15900	1930	2070	1940
7	2040	3360	8580	8520	7630	8210	13100	10800	16100	1940	2070	1870
8	2030	3450	8590	8540	8140	8190	13900	12500	16800	1960	2080	1760
9	2030	3390	8650	8630	8660	8150	13600	12600	16700	1950	2080	1660
10	2030	3470	8790	8700	8370	7860	13600	12100	16500	1960	2090	1680
11	2030	3950	8840	8720	8290	7110	13300	12200	16300	1960	2110	1670
12	2050	4070	8820	8780	8640	6030	13100	12500	16000	1960	2110	1690
13	2210	4110	8730	8780	7760	4810	12500	12600	15900	1950	2100	1680
14	2220	4110	8570	8770	8660	3840	12400	12200	15800	1980	2090	1680
15	2220	3960	8410	8720	8520	2960	12400	12200	15900	1970	2100	1680
16	2190	2520	8410	8430	8410	2930	12300	11900	14400	1980	2090	1680
17	2080	2000	8410	8190	8320	2980	12100	12000	11800	2010	2030	1740
18	2080	2820	8460	8140	8300	4590	12100	12700	10000	2020	2070	1730
19	1980	3690	7630	8150	8270	6500	11700	12100	9340	2030	2080	1740
20	2120	4760	8570	8350	8160	7920	10700	13000	9290	2020	2080	1750
21	2150	5630	7700	8720	8230	8960	10100	13100	9650	2020	2080	1750
22	2110	6160	7760	8900	8270	9850	8830	12800	9050	1980	2090	1750
23	2030	6830	7770	9070	8220	10400	8230	12100	8120	2020	2100	1750
24	2090	7420	7770	8990	8100	10600	7500	11500	7100	2040	2100	1740
25	2240	7920	7790	8910	8000	10700	6640	10700	7990	2060	2090	1740
26	2310	8050	8040	8790	7890	10700	6290	8930	8060	2000	2140	1740
27	3110	7870	8620	7900	7910	10700	5420	8310	8200	2050	2110	1750
28	3020	7880	8780	8500	7980	10700	4390	8350	6690	2060	2110	1740
29	3450	7880	9000	8380	---	10400	4280	8710	4580	2060	2100	1740
30	3930	7940	6950	8160	---	9950	4680	8890	3410	2050	2110	1750
31	3860	---	9210	7970	---	9800	---	9330	---	2060	2090	---
TOTAL	71990	144540	258380	266720	227260	243560	302500	322690	353890	61980	64680	53510
MEAN	2322	4818	8335	8604	8116	7857	10080	10410	11800	1999	2086	1784
MAX	3930	8050	9210	9180	8660	10700	13900	13100	16800	2300	2140	2030
MIN	1980	2000	6950	7900	7610	2930	4280	4540	3410	1890	2030	1660
AC-FT	142800	286700	512500	529000	450800	483100	600000	640100	701900	122900	128300	106100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1999, BY WATER YEAR (WY)

MEAN	2215	3009	3591	4035	4176	4346	5233	4539	4486	1329	877	1017
MAX	10450	13240	12030	14850	18330	19430	18830	18230	24150	6573	4261	7039
(WY)	1985	1985	1984	1984	1997	1997	1971	1984	1997	1927	1997	1997
MIN	386	536	632	699	549	332	249	261	277	315	336	394
(WY)	1978	1935	1937	1938	1938	1991	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1924 - 1999	
ANNUAL TOTAL	2242820		2371700			
ANNUAL MEAN	6145		6498		3229	
HIGHEST ANNUAL MEAN					10210	1984
LOWEST ANNUAL MEAN					511	1935
HIGHEST DAILY MEAN	16200	May 25	16800	Jun 8	33500	Jun 21 1997
LOWEST DAILY MEAN	1890	Jul 14	1660	Sep 9	95	Apr 20 1977
ANNUAL SEVEN-DAY MINIMUM	1940	Jul 9	1680	Sep 9	222	Apr 6 1991
ANNUAL RUNOFF (AC-FT)	4449000		4704000		2339000	
10 PERCENT EXCEEDS	11000		12100		9120	
50 PERCENT EXCEEDS	6520		7760		1240	
90 PERCENT EXCEEDS	2030		1960		412	

SNAKE RIVER MAIN STEM

13090000 SNAKE RIVER NEAR KIMBERLY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1970 to September 1981, November 1990 to September 1991, October 1992 to September 1993, June 1994 to September 1997, April 1999 to September 1999 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1997, May 18 to September 7, 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum 24.0 °C July 21, 1997.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum 21.8 °C July 30.

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)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
15...	0900	12400	435	8.3	4.5	5.7	28	13.5	120	K1	K9
MAY											
17...	0830	11600	439	8.1	12.0	8.9	15	11.9	120	22	40
JUN											
17...	0815	12500	388	8.3	20.5	17.7	2.5	9.3	111	31	29
JUL											
15...	0845	1950	409	8.4	18.0	19.6	4.0	8.1	99	K16	37
AUG											
25...	0845	2050	424	8.5	22.5	20.2	1.2	7.8	100	14	59
SEP											
09...	0915	1670	440	8.4	17.5	16.1	4.0	8.1	95	K8	70

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
09...	170	44	16	23	22	3.6	170	5

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
09...	149	36	19	.54	20	255	.35	1150

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 TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
15...	<.010	.279	.029	.81	.193	<.010	140	4690
MAY								
17...	<.010	.184	.029	.34	E.039	.019	23	720
JUN								
17...	<.010	.150	.027	.43	.071	.018	39	1320
JUL								
15...	.011	.658	.023	.35	.054	.033	10	53
AUG								
25...	<.010	.594	<.020	.54	.085	.024	14	77
SEP								
09...	<.010	.725	<.020	.26	E.039	.019	12	54

E Positive detection, but below stated detection limit.
K Results based on coounts outside ideal colony range.

SNAKE RIVER MAIN STEM

13090000 SNAKE RIVER NEAR KIMBERLY, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	---	---	---
2	---	---	---	---	---	---
3	---	---	---	---	---	---
4	---	---	---	---	---	---
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	---	---	---	---	---	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---
11	---	---	---	---	---	---
12	---	---	---	---	---	---
13	---	---	---	---	---	---
14	---	---	---	---	---	---
15	---	---	---	---	---	---
16	---	---	---	---	---	---
17	---	---	---	---	---	---
18	---	---	---	11.9	10.8	11.4
19	---	---	---	12.5	11.4	12.0
20	---	---	---	13.2	11.9	12.4
21	---	---	---	13.6	12.4	13.0
22	---	---	---	14.2	13.2	13.6
23	---	---	---	14.9	13.3	14.1
24	---	---	---	15.7	14.2	14.9
25	---	---	---	16.8	15.3	15.9
26	---	---	---	16.8	16.0	16.4
27	---	---	---	16.5	15.5	15.9
28	---	---	---	16.1	15.2	15.7
29	---	---	---	16.5	15.8	16.2
30	---	---	---	16.1	15.8	16.0
31	---	---	---	16.0	15.2	15.6
MONTH	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.0	14.7	15.4	18.7	18.0	18.3	21.3	20.6	20.9	19.0	18.2	18.7
2	15.7	14.9	15.2	18.9	18.2	18.5	21.1	20.5	20.8	18.2	17.6	18.0
3	14.9	14.1	14.4	18.7	18.0	18.4	21.0	20.5	20.7	17.6	17.1	17.3
4	15.2	14.1	14.5	18.9	18.2	18.4	21.1	20.5	20.8	17.1	16.5	16.8
5	15.5	14.2	14.8	18.7	17.9	18.3	21.1	20.5	20.8	17.6	16.8	17.1
6	14.9	14.2	14.6	19.2	18.0	18.6	21.1	20.5	20.8	17.6	16.9	17.2
7	14.7	13.6	14.2	19.5	18.7	19.1	21.0	20.6	20.8	17.2	16.8	17.0
8	15.2	14.2	14.6	19.0	18.5	18.8	21.1	20.3	20.7	---	---	---
9	15.0	13.9	14.3	19.5	18.5	19.0	21.3	20.8	21.0	---	---	---
10	15.5	13.9	14.6	20.2	19.3	19.7	21.1	20.2	20.7	---	---	---
11	16.3	14.7	15.4	20.0	19.3	19.7	20.2	19.8	20.0	---	---	---
12	16.9	15.2	16.0	20.3	19.5	19.9	20.5	19.8	20.2	---	---	---
13	17.7	16.3	17.0	21.0	20.2	20.6	20.5	20.0	20.3	---	---	---
14	18.4	16.9	17.6	21.0	20.6	20.8	20.2	19.7	19.9	---	---	---
15	18.5	17.4	18.0	20.6	20.2	20.4	20.0	19.3	19.6	---	---	---
16	19.0	17.9	18.4	20.6	20.0	20.3	20.2	19.3	19.7	---	---	---
17	19.3	18.2	18.7	20.5	20.0	20.3	20.3	19.7	19.9	---	---	---
18	20.0	18.4	19.2	20.3	19.7	20.0	20.3	19.7	20.0	---	---	---
19	19.8	19.2	19.5	20.5	19.8	20.1	20.6	19.8	20.2	---	---	---
20	20.5	19.3	19.8	21.0	20.2	20.5	21.0	20.5	20.7	---	---	---
21	20.2	19.5	19.8	20.8	20.2	20.5	21.1	20.5	20.7	---	---	---
22	20.0	19.3	19.7	21.1	20.5	20.7	21.1	20.8	20.9	---	---	---
23	19.7	18.7	19.2	21.3	20.6	21.0	21.0	20.6	20.8	---	---	---
24	19.5	18.5	19.1	21.3	20.6	21.1	21.1	20.3	20.7	---	---	---
25	19.3	18.7	19.0	20.8	20.3	20.6	21.3	20.8	21.0	---	---	---
26	18.7	17.9	18.4	21.3	20.5	20.8	21.3	20.8	21.0	---	---	---
27	18.5	17.6	18.0	21.5	20.6	21.0	21.1	20.8	21.0	---	---	---
28	18.2	17.4	17.8	21.5	21.0	21.1	21.1	20.6	20.9	---	---	---
29	18.0	17.2	17.6	21.5	21.0	21.2	21.1	20.5	20.8	---	---	---
30	18.0	17.6	17.9	21.8	21.1	21.4	20.8	20.3	20.6	---	---	---
31	---	---	---	21.1	20.6	21.0	20.3	19.0	19.6	---	---	---
MONTH	20.5	13.6	17.1	21.8	17.9	20.0	21.3	19.0	20.5	---	---	---

BLUE LAKES SPRING BASIN

13090999 BLUE LAKES SPRING BELOW PUMPING PLANT NEAR TWIN FALLS, ID

LOCATION.--Lat 42°36'53", long 114°28'06", in NE¼NW¼SE¼ sec.28, T.9 S., R.17 E., Jerome County, Hydrologic Unit 17040212, on left bank at outlet of upper Blue Lake, 1,000 ft downstream from head of spring, 0.6 mi upstream from mouth, 1.2 mi northwest of Perrine Memorial Bridge, 3.5 mi north of Twin Falls, and 610.5 mi upstream from mouth of Snake River.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,292 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Discharge record at this site represents flows remaining after diversion at head of spring for Twin Falls City water supply (Blue Lakes Spring Pumping Plant - station 13090998), which began July 1994. Combined flows of daily discharge continue to be published as 13091000 Blue Lakes Spring near Twin Falls, ID.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 188 ft^3/s Oct. 29, 1998; minimum, 108 ft^3/s, July 14, 1995, from current meter measurement.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 188 ft^3/s Oct. 29; minimum daily, 132 ft^3/s July 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	180	186	182	181	174	171	168	166	147	144	155	169
2	181	186	182	181	174	168	168	166	153	146	152	172
3	183	186	183	180	173	170	168	166	151	149	155	173
4	183	186	183	180	174	170	171	166	154	151	157	173
5	181	186	182	180	173	170	171	166	154	143	158	172
6	180	186	182	178	173	170	171	163	155	140	156	170
7	178	187	180	178	174	170	170	163	151	133	159	169
8	179	187	180	179	173	169	170	162	149	141	160	169
9	179	186	180	178	173	169	172	164	144	142	156	170
10	181	185	180	178	170	170	171	161	145	149	160	169
11	181	185	179	178	175	170	169	159	146	142	163	170
12	178	186	180	179	175	169	163	161	147	138	167	171
13	180	186	181	177	174	169	164	165	150	132	167	168
14	178	185	179	177	175	169	162	163	145	138	167	169
15	180	185	180	177	174	170	163	165	147	145	167	168
16	181	184	180	177	171	169	160	163	143	144	161	169
17	182	184	180	177	171	169	158	158	144	148	160	169
18	182	184	180	177	170	168	156	159	139	151	160	170
19	181	184	180	177	171	168	156	158	143	140	161	171
20	182	184	180	176	171	168	163	160	144	139	161	170
21	183	185	180	177	171	169	163	159	143	145	163	171
22	183	184	180	177	170	167	161	159	144	145	164	169
23	184	183	180	176	170	167	161	159	141	146	162	171
24	184	185	181	177	169	166	161	154	141	150	164	171
25	185	185	181	176	168	165	161	150	147	150	162	172
26	185	185	181	176	170	167	160	145	146	145	162	173
27	184	185	181	175	170	168	162	145	149	144	163	173
28	187	185	181	174	170	167	163	147	141	144	165	173
29	188	184	181	174	---	165	165	151	145	148	166	172
30	187	183	181	174	---	167	165	157	143	148	165	169
31	187	---	180	174	---	167	---	150	---	151	169	---
TOTAL	5647	5552	5600	5495	4816	5221	4936	4930	4391	4471	5007	5115
MEAN	182	185	181	177	172	168	165	159	146	144	162	170
MAX	188	187	183	181	175	171	172	166	155	151	169	173
MIN	178	183	179	174	168	165	156	145	139	132	152	168
AC-FT	11200	11010	11110	10900	9550	10360	9790	9780	8710	8870	9930	10150

CAL YR 1998 TOTAL 58379 MEAN 160 MAX 188 MIN 119 AC-FT 115800
WTR YR 1999 TOTAL 61181 MEAN 168 MAX 188 MIN 132 AC-FT 121400

13090999 BLUE LAKES SPRING NEAR TWIN FALLS, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-1950, 1952-1958, 1962-1980, 1984 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to August 1994, June to September 1996, May to September 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 17.8 °C Aug. 24, 26, 1999.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 17.8 °C Aug. 24, 26.

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)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
12...	0915	167	612	7.9	5.0	14.7	.80	9.7	111	<1	K1
MAY											
10...	0915	160	616	7.9	8.5	14.6	7.0	9.3	106	K1	21
JUN											
16...	1145	156	607	8.0	30.5	15.7	1.0	9.0	103	K3	K6
JUL											
14...	1215	149	603	8.0	25.5	15.3	1.6	9.0	102	K1	20
AUG											
24...	1000	165	614	8.0	20.5	15.9	.25	8.1	92	K1	K2
SEP											
13...	1345	174	604	7.9	24.5	15.4	.23	9.7	108	K4	K5

DATE	ANC HARD-NESS TOTAL (MG/L AS CACO3) (00900)	ANC MAGNE-CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	POTAS-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	WATER SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	UNFLTRD SIUM, DIS-SOLVED (MG/L PERCENT (00932)	UNFLTRD FET FIELD SODIUM AS K) (00935)	CARB FET FIELD (MG/L HCO3 (00440)	MG/L AS CO3 (00445)	MG/L AS
SEP									
13...	220		57	20	35	25	7.0	240	0

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
13...	192	55	43	.40	43	384	.52	181

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 TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
12...	<.010	1.87	<.020	E.06	<.050	.019	1	.45
MAY								
10...	<.010	1.89	.037	E.09	E.036	.024	<1	--
JUN								
16...	<.010	1.92	.021	.17	E.033	.021	3	1.3
JUL								
14...	<.010	1.98	<.020	.12	<.050	.015	2	.80
AUG								
24...	<.010	1.88	<.020	.23	<.050	<.010	--	--
SEP								
13...	<.010	2.02	<.020	.13	<.050	.018	<1	--

E Positive detection but below stated detection limits.
K Results based on counts outside ideal range.

BLUE LAKES SPRING BASIN

13090999 BLUE LAKES SPRING NEAR TWIN FALLS, ID

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	---	---	---
2	---	---	---	---	---	---
3	---	---	---	---	---	---
4	---	---	---	---	---	---
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	---	---	---	---	---	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---
11	---	---	---	---	---	---
12	---	---	---	16.4	15.6	15.8
13	---	---	---	16.2	15.4	15.7
14	---	---	---	16.4	15.2	15.7
15	---	---	---	16.2	15.2	15.7
16	---	---	---	16.4	15.2	15.7
17	---	---	---	16.5	15.2	15.8
18	---	---	---	16.5	15.4	15.9
19	---	---	---	16.5	15.6	15.9
20	---	---	---	16.5	15.4	15.8
21	---	---	---	16.5	15.6	15.9
22	---	---	---	16.5	15.4	15.9
23	---	---	---	16.5	15.6	16.0
24	---	---	---	16.5	15.6	16.0
25	---	---	---	16.5	15.6	16.0
26	---	---	---	16.5	15.6	15.9
27	---	---	---	16.5	15.4	15.9
28	---	---	---	16.4	15.6	15.8
29	---	---	---	16.7	15.6	15.9
30	---	---	---	16.2	15.6	15.7
31	---	---	---	16.5	15.6	15.9
MONTH	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.7	15.6	15.9	16.7	15.6	16.0	16.5	15.6	15.9	16.0	15.6	15.7
2	16.2	15.6	15.7	16.7	15.6	16.0	16.5	15.6	16.0	17.1	15.6	15.9
3	16.2	15.6	15.7	16.5	15.6	15.9	16.4	15.7	15.9	16.4	15.6	15.8
4	16.4	15.4	15.8	16.5	15.4	15.9	16.5	15.7	15.9	16.5	15.6	15.9
5	16.4	15.6	15.9	16.5	15.6	15.9	16.5	15.6	15.9	16.5	15.4	15.8
6	16.2	15.6	15.7	16.8	15.6	16.0	16.5	15.7	15.9	16.7	15.6	15.9
7	17.0	15.6	15.9	16.5	15.6	16.0	16.2	15.6	15.8	16.7	15.6	15.8
8	16.5	15.4	15.8	16.5	15.4	15.9	16.5	15.6	15.9	16.8	15.4	15.8
9	16.5	15.4	15.9	16.5	15.4	15.9	16.5	15.6	15.9	16.0	15.4	15.7
10	16.7	15.4	15.9	16.5	15.4	15.9	16.0	15.6	15.8	16.2	15.6	15.8
11	16.8	15.4	15.9	16.5	15.6	16.0	16.4	15.6	15.8	16.2	15.6	15.8
12	16.7	15.6	16.0	16.7	15.6	16.0	16.4	15.6	15.9	16.2	15.4	15.8
13	16.5	15.6	15.9	16.5	15.6	16.0	16.4	15.6	15.9	---	---	---
14	16.7	15.6	16.0	17.0	15.7	16.0	16.4	15.6	15.9	---	---	---
15	16.8	15.6	15.9	16.5	15.6	15.9	16.4	15.6	15.9	---	---	---
16	17.1	15.6	16.1	16.5	15.6	15.9	16.4	15.6	15.9	---	---	---
17	17.1	15.6	16.1	16.5	15.6	15.9	16.4	15.6	15.9	---	---	---
18	17.0	15.6	16.0	16.4	15.6	15.9	16.4	15.6	15.9	---	---	---
19	16.5	15.6	15.9	16.5	15.6	16.0	16.4	15.7	15.9	---	---	---
20	17.0	15.6	16.0	16.5	15.6	16.0	16.4	15.7	15.9	---	---	---
21	16.7	15.6	15.9	16.5	15.6	15.9	16.4	15.7	15.9	---	---	---
22	16.8	15.6	16.0	16.5	15.6	15.9	16.4	15.7	15.9	---	---	---
23	16.8	15.6	16.0	16.5	15.6	15.9	16.2	15.7	15.9	---	---	---
24	16.7	15.6	16.0	16.4	15.6	15.9	17.8	15.7	16.1	---	---	---
25	16.5	15.6	15.9	16.5	15.6	15.9	17.6	15.6	16.1	---	---	---
26	16.4	15.6	15.9	16.5	15.6	15.9	17.8	15.6	16.0	---	---	---
27	16.4	15.6	15.9	16.5	15.6	15.9	16.5	15.6	15.9	---	---	---
28	16.5	15.6	15.9	16.5	15.7	16.0	17.5	15.7	16.0	---	---	---
29	16.5	15.6	16.0	16.5	15.7	15.9	17.3	15.6	16.0	---	---	---
30	16.7	15.6	16.0	16.4	15.7	15.9	16.8	15.6	15.9	---	---	---
31	---	---	---	16.5	15.6	15.9	17.3	15.4	15.9	---	---	---
MONTH	17.1	15.4	15.9	17.0	15.4	15.9	17.8	15.4	15.9	---	---	---

BLUE LAKES SPRING BASIN

13091000 BLUE LAKES SPRING NEAR TWIN FALLS, ID

LOCATION.--Lat 42°36'53", long 114°28'06", in NE¼NW¼SE¼ sec.28, T.9 S., R.17 E., Jerome County, Hydrologic Unit 17040212, on left bank at outlet of upper Blue Lake, 1,000 ft downstream from head of spring, 0.6 mi upstream from mouth, 1.2 mi northwest of Perrine Memorial Bridge, 3.5 mi north of Twin Falls, and 610.5 mi upstream from mouth of Snake River.

PERIOD OF RECORD.--April 1950 to current year.

REMARKS.--Records fair. Discharge record at this site represents combined flow for Blue Lakes Spring Pumping Plant (station 13090998), which provides water to the City of Twin Falls beginning July 1994, and Blue Lakes Spring below Pumping Plant near Twin Falls (station 13090999).

COOPERATION.--Daily discharges for Blue Lakes Spring Pumping Plant are provided by the City of Twin Falls.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 256 ft³/s Nov. 10, 11, 1951, Oct. 24 to Nov. 13, 1952, Sept. 29, 30, 1953, Oct. 23, 24, 1957; minimum daily, 142 ft³/s Mar. 29 to Apr. 3, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 196 ft³/s Oct. 1; minimum daily, 168 ft³/s July 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	196	188	184	181	179	175	180	186	172	173	182	190
2	194	188	184	182	179	174	182	184	172	176	182	190
3	195	188	183	182	178	175	181	185	175	178	182	189
4	195	188	185	183	179	175	179	183	177	175	183	190
5	193	188	186	181	178	175	180	185	177	175	183	190
6	193	187	184	182	178	175	178	181	178	175	183	189
7	191	188	182	182	179	175	181	181	174	174	184	189
8	191	188	182	182	178	175	181	182	172	175	184	190
9	192	187	183	183	178	175	180	184	173	176	185	189
10	191	187	182	183	175	176	181	182	172	178	184	190
11	192	186	182	183	177	178	179	180	173	176	184	189
12	189	187	182	183	177	178	178	182	174	176	185	189
13	189	188	181	183	177	178	180	186	174	175	185	189
14	188	187	182	182	176	177	180	182	175	176	186	189
15	188	186	182	182	176	175	180	186	174	175	186	189
16	188	186	184	182	176	174	179	185	173	178	186	189
17	187	186	184	181	174	179	177	181	171	178	186	190
18	187	186	184	182	176	179	176	181	170	180	186	190
19	188	186	186	183	176	177	174	181	170	168	186	190
20	188	186	185	181	176	179	184	183	172	179	187	190
21	187	186	184	182	176	178	183	183	171	179	187	191
22	187	186	184	181	175	178	181	183	171	180	187	190
23	188	185	183	181	173	179	181	185	171	180	187	190
24	188	185	182	181	173	178	181	181	172	180	187	190
25	187	186	181	181	173	177	182	175	173	183	187	189
26	188	186	181	180	175	179	181	172	173	179	188	190
27	187	185	182	180	175	181	183	172	173	181	188	190
28	190	185	182	179	175	180	184	172	172	181	188	189
29	190	186	182	180	---	179	186	174	174	180	188	189
30	189	185	181	179	---	181	185	181	174	180	189	191
31	189	---	181	179	---	180	---	173	---	182	190	---
TOTAL	5885	5596	5670	5626	4937	5494	5417	5611	5192	5501	5755	5689
MEAN	190	187	183	181	176	177	181	181	173	177	186	190
MAX	196	188	186	183	179	181	186	186	178	183	190	191
MIN	187	185	181	179	173	174	174	172	170	168	182	189
AC-FT	11670	11100	11250	11160	9790	10900	10740	11130	10300	10910	11420	11280

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

MEAN	213	210	204	198	195	192	190	189	190	196	201	208
MAX	252	251	243	237	235	235	231	227	229	231	240	249
(WY)	1953	1953	1951	1952	1953	1953	1953	1951	1954	1954	1953	1953
MIN	161	159	155	152	146	144	144	148	148	153	157	162
(WY)	1993	1993	1993	1994	1994	1994	1994	1992	1992	1992	1993	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1950 - 1999	
ANNUAL TOTAL	64324		66373			
ANNUAL MEAN	176		182		198	
HIGHEST ANNUAL MEAN					237	1953
LOWEST ANNUAL MEAN					157	1993
HIGHEST DAILY MEAN	202	Sep 13	196	Oct 1	256	Nov 10 1951
LOWEST DAILY MEAN	152	May 4	168	Jul 19	142	Mar 29 1992
ANNUAL SEVEN-DAY MINIMUM	155	Apr 28	171	Jun 17	142	Mar 28 1992
ANNUAL RUNOFF (AC-FT)	127600		131700		143500	
10 PERCENT EXCEEDS	189		189		232	
50 PERCENT EXCEEDS	174		182		202	
90 PERCENT EXCEEDS	162		174		163	

ROCK CREEK BASIN

13092747 ROCK CREEK ABOVE HIGHWAY 30/93 CROSSING AT TWIN FALLS, ID

LOCATION.--Lat 42°33'47", long 114°29'42", in SE¼NW¼NW¼ sec.17, T.10 S., R.17 E., Twin Falls County, Hydrologic Unit 17040212, on right bank 40 ft above private road bridge, 0.2 mi south of Highway 30/93 in Twin Falls.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,630 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Flow partially regulated by many diversions upstream for irrigation and irrigation-return flows.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 529 ft³/s June 2, 1999; minimum daily, 26 ft³/s Apr. 2, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 529 ft³/s June 2, gage height, 8.75 ft; minimum daily, 44 ft³/s Jan. 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	163	119	72	53	51	195	213	229	272	120	140	187
2	161	114	71	52	50	201	219	244	322	120	142	179
3	159	107	70	51	51	203	215	304	276	116	140	177
4	157	96	70	51	51	201	197	366	252	121	142	178
5	155	95	68	52	51	214	109	378	242	122	142	182
6	151	93	68	52	51	238	111	355	244	116	145	187
7	151	91	64	52	56	232	113	335	246	112	136	173
8	149	92	66	51	60	228	117	319	228	106	141	170
9	145	91	62	51	86	233	142	325	215	100	146	175
10	147	92	61	51	123	232	186	328	198	104	144	175
11	144	88	62	51	99	232	190	308	182	108	157	172
12	148	83	66	47	89	233	193	289	172	111	163	169
13	144	81	63	44	130	231	174	305	164	113	161	171
14	142	81	61	46	156	233	128	308	161	125	157	165
15	142	81	58	52	154	234	102	302	149	122	160	166
16	145	80	57	57	155	248	105	289	150	126	163	162
17	144	82	59	55	167	234	108	258	150	124	157	161
18	143	80	60	55	173	235	113	244	139	123	157	158
19	141	77	54	60	172	234	123	245	130	124	156	158
20	134	76	52	71	178	238	145	268	136	121	161	159
21	133	81	49	68	178	249	168	314	134	121	164	164
22	131	81	48	61	167	254	176	358	129	126	161	192
23	134	79	47	64	167	249	170	373	128	133	166	191
24	135	80	47	60	184	261	156	385	130	133	176	186
25	134	76	48	58	194	232	149	391	123	130	177	188
26	135	74	52	57	190	206	155	382	124	133	180	197
27	133	74	54	54	191	206	186	373	125	136	176	208
28	129	74	55	50	192	204	212	349	128	133	175	205
29	125	74	56	50	---	203	224	333	125	134	176	206
30	118	74	54	49	---	205	220	321	120	136	177	204
31	117	---	54	53	---	204	---	297	---	134	177	---
TOTAL	4389	2566	1828	1678	3566	7002	4819	9875	5294	3783	4915	5365
MEAN	142	85.5	59.0	54.1	127	226	161	319	176	122	159	179
MAX	163	119	72	71	194	261	224	391	322	136	180	208
MIN	117	74	47	44	50	195	102	229	120	100	136	158
AC-FT	8710	5090	3630	3330	7070	13890	9560	19590	10500	7500	9750	10640

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

MEAN	155	95.2	67.1	64.5	88.2	152	164	248	160	126	151	174
MAX	211	142	85.5	132	130	228	282	319	234	151	167	188
(WY)	1996	1998	1997	1997	1998	1997	1997	1999	1995	1997	1997	1993
MIN	115	67.6	54.5	45.3	41.5	40.0	79.8	121	104	116	139	159
(WY)	1993	1993	1993	1994	1994	1994	1994	1994	1994	1993	1998	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1993 - 1999	
ANNUAL TOTAL	52688		55080			
ANNUAL MEAN	144		151		137	
HIGHEST ANNUAL MEAN					175	1997
LOWEST ANNUAL MEAN					99.3	1994
HIGHEST DAILY MEAN	487	May 17	391	May 25	487	May 17 1998
LOWEST DAILY MEAN	47	Dec 23	44	Jan 13	26	Apr 2 1994
ANNUAL SEVEN-DAY MINIMUM	49	Dec 20	49	Jan 8	30	Mar 27 1994
ANNUAL RUNOFF (AC-FT)	104500		109300		99550	
10 PERCENT EXCEEDS	233		247		229	
50 PERCENT EXCEEDS	139		143		132	
90 PERCENT EXCEEDS	58		54		51	

ROCK CREEK BASIN

13092747 ROCK CREEK ABOVE HIGHWAY 30/93 CROSSING AT TWIN FALLS, ID--Continued
(National water-quality assessment station)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1993 to September 1994 (discontinued).
WATER TEMPERATURE: April 1993 to September 1994, July to September 1996, June to September 1997, June to August 1998 (discontinued).

INSTRUMENTATION.--Water-quality monitor and data logger from April 1993 to September 1994. Temperature recording data logger from July to September 1996, June to September 1997, June to August 1998.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1880 microsiemens March 29, 1994; minimum, 236 microsiemens May 15, 1993.
WATER TEMPERATURE: Maximum, 22.9 °C July 19, 1998; minimum, 1.0 °C Feb. 13, 1994.

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)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
OCT										
26...	0800	137	686	7.9	5.5	10.5	9.3	96	671	280
NOV										
30...	0900	76	739	8.1	4.0	8.5	9.5	93	667	290
DEC										
29...	0845	56	742	8.2	5.5	7.5	10.3	98	674	280
JAN										
26...	1030	58	712	7.9	1.0	4.0	10.6	96	665	270
FEB										
16...	0900	153	515	7.9	0.0	1.5	11.4	95	671	210
MAR										
24...	0815	261	384	8.1	2.5	6.5	10.3	97	674	140
APR										
20...	0945	140	341	7.9	10.5	9.5	9.3	94	668	120
MAY										
19...	0930	246	312	8.0	12.5	10.5	9.2	96	669	120
JUN										
22...	0930	137	564	8.2	17.5	14.5	8.5	96	668	230
JUL										
20...	0745	122	662	8.2	18.0	15.5	7.8	90	666	250
AUG										
27...	0745	179	674	8.1	14.0	15.0	9.1	103	667	270
SEP										
22...	0900	197	662	8.1	15.0	14.5	7.0	78	673	260

DATE	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 PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WAT.DIS FET FIELD HCO3 (MG/L) (29804)	CAR-BONATE WAT.DIS FET FIELD CO3 (MG/L) (29807)	ALKA-LINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT										
26...	67	26	42	24	4.8	270	5	228	81	30
NOV										
30...	72	27	43	24	5.7	--	--	--	90	32
DEC										
29...	71	26	44	25	6.0	270	0	222	94	35
JAN										
26...	69	25	41	24	5.2	270	0	222	92	34
FEB										
16...	55	18	26	21	4.1	240	0	197	55	24
MAR										
24...	33	14	22	25	3.9	170	0	134	42	20
APR										
20...	32	10	19	25	4.3	160	0	129	32	15
MAY										
19...	31	9.4	17	23	4.1	150	0	122	29	13
JUN										
22...	59	20	32	23	4.7	220	0	182	58	23
JUL										
20...	64	23	34	22	5.2	260	0	214	71	26
AUG										
27...	67	25	37	23	5.3	250	0	208	72	27
SEP										
22...	64	25	37	23	4.4	290	0	235	72	27

ROCK CREEK BASIN

13092747 ROCK CREEK ABOVE HIGHWAY 30/93 XING AT TWIN FALLS, ID--Continued

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

DATE	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	SOLIDS, DISSOLVED (TONS PER DAY) (70302)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT									
26...	.80	40	461	437	.63	171	.02	2.1	0.07
NOV									
30...	.79	47	508	368	.69	104	.03	2.5	0.10
DEC									
29...	.72	44	502	467	.68	75.9	.04	2.8	0.15
JAN									
26...	.72	42	480	452	.65	75.2	.02	2.3	0.12
FEB									
16...	.65	26	340	332	.46	140	<.01	1.1	0.14
MAR									
24...	.64	18	240	238	.33	169	<.01	.36	<0.02
APR									
20...	.37	34	226	228	.31	85.4	.01	.78	0.07
MAY									
19...	.37	34	214	215	.29	142	<.01	.73	0.04
JUN									
22...	.75	37	382	350	.52	141	<.01	1.5	0.04
JUL									
20...	.76	38	417	398	.57	137	.02	1.8	0.04
AUG									
27...	.81	38	418	407	.57	202	<.01	1.9	0.03
SEP									
22...	.80	39	430	419	.58	229	.01	1.9	0.03

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT									
26...	0.2	0.2	0.03	0.03	0.04	E6.2	5.5	35	13
NOV									
30...	0.3	0.2	0.03	0.04	0.04	<10	7.4	67	14
DEC									
29...	0.2	0.3	0.05	0.05	0.07	E5.3	12	19	2.9
JAN									
26...	1.0	0.3	0.06	0.04	0.04	E5.8	23	12	1.9
FEB									
16...	0.7	0.3	0.12	0.04	0.04	10	12	80	33
MAR									
24...	0.8	0.2	0.12	0.04	<0.01	<10	5.7	100	70
APR									
20...	0.8	0.2	0.16	0.03	0.03	E6.3	4.5	118	45
MAY									
19...	0.4	0.1	0.16	0.05	0.04	E9.5	3.9	141	94
JUN									
22...	0.5	0.8	0.11	0.07	0.05	<10	5.6	58	21
JUL									
20...	0.5	0.3	0.14	0.06	0.07	<10	4.3	71	23
AUG									
27...	0.5	0.3	0.11	E0.03	0.04	E9.4	5.9	60	29
SEP									
22...	0.6	0.3	0.11	0.05	0.04	<10	7.4	67	36

E Positive detection, but below stated detection limit.

13092747 ROCK CREEK ABOVE HIGHWAY 30/93 XING AT TWIN FALLS, ID--Continued

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)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
OCT											
26...	0800	137	686	7.9	5.5	10.5	9.3	96	671	<0.002	E0.006
NOV											
30...	0900	76	739	8.1	4.0	8.5	9.5	93	667	<0.002	E0.006
DEC											
29...	0845	56	742	8.2	5.5	7.5	10.3	98	674	<0.002	E0.007
JAN											
26...	1030	58	712	7.9	1.0	4.0	10.6	96	665	<0.002	E0.008
FEB											
16...	0900	153	515	7.9	0.0	1.5	11.4	95	671	<0.002	E0.004
MAR											
24...	0815	261	384	8.1	2.5	6.5	10.3	97	674	<0.002	<0.002
APR											
20...	0945	140	341	7.9	10.5	9.5	9.3	94	668	<0.002	<0.002
29...	0915	224	282	7.9	5.0	5.5	10.5	96	665	<0.002	<0.002
MAY											
06...	1130	360	250	7.8	13.0	7.0	10.3	97	673	<0.002	<0.002
19...	0930	246	312	8.0	12.5	10.5	9.2	96	669	E0.004	<0.002
JUN											
09...	0915	224	425	8.1	10.0	10.0	9.6	98	671	<0.004	E0.003
22...	0930	137	564	8.2	17.5	14.5	8.5	96	668	<0.002	E0.007
JUL											
08...	0815	114	633	8.2	16.0	13.5	8.3	90	674	0.014	E0.007
20...	0745	122	662	8.2	18.0	15.5	7.8	90	666	<0.002	E0.011
AUG											
12...	1115	161	669	8.2	20.0	15.0	9.1	101	673	<0.002	E0.008
27...	0745	179	674	8.1	14.0	15.0	9.1	103	667	<0.002	E0.011
SEP											
07...	0915	178	673	8.2	12.5	12.5	9.4	92	673	<0.002	E0.011
22...	0900	197	662	8.1	15.0	14.5	7.0	78	673	<0.002	E0.009

DATE	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	P,P' DDE DISSOLV (UG/L) (34653)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
OCT											
26...	0.008	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
NOV											
30...	0.009	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
DEC											
29...	0.007	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
JAN											
26...	0.007	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
FEB											
16...	0.005	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
MAR											
24...	E0.004	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
APR											
20...	<0.001	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
29...	0.005	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	0.006	<0.002	<0.006	<0.002
MAY											
06...	<0.001	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
19...	0.004	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
JUN											
09...	E0.003	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
22...	0.006	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
JUL											
08...	0.006	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
20...	0.008	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
AUG											
12...	0.006	<0.001	<0.002	<0.002	E0.005	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
27...	0.008	<0.001	<0.002	<0.002	E0.035	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002
SEP											
07...	0.006	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	E0.001	<0.002
22...	0.008	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006	<0.002

E Positive detection, but below stated detection limit.

13092747 ROCK CREEK ABOVE HIGHWAY 30/93 XING AT TWIN FALLS, ID--Continued

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

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	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)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	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)
OCT											
26...	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
NOV											
30...	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
DEC											
29...	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
JAN											
26...	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
FEB											
16...	<0.001	<0.003	<0.017	E0.001	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
MAR											
24...	<0.001	<0.003	<0.017	E0.003	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
APR											
20...	<0.001	<0.003	<0.017	0.007	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
29...	<0.001	<0.003	<0.017	0.009	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
MAY											
06...	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
19...	<0.001	<0.003	<0.017	0.005	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
JUN											
09...	<0.001	<0.003	<0.017	0.024	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
22...	<0.001	<0.003	<0.017	0.015	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
JUL											
08...	<0.001	<0.003	<0.017	0.021	0.012	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
20...	<0.001	<0.003	<0.017	0.020	0.005	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
AUG											
12...	<0.001	<0.003	<0.017	0.011	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
27...	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
SEP											
07...	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
22...	<0.001	<0.003	<0.017	E0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005

DATE	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARA-THION, DIS-SOLVED (UG/L) (39542)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
OCT											
26...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
NOV											
30...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
DEC											
29...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
JAN											
26...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
FEB											
16...	0.004	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
MAR											
24...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
APR											
20...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
29...	E0.004	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	0.510
MAY											
06...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
19...	0.005	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
JUN											
09...	E0.004	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
22...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
JUL											
08...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
20...	<0.005	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.030
AUG											
12...	E0.003	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
27...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
SEP											
07...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
22...	0.005	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018

E Positive detection, but below stated detection limit.

13092747 ROCK CREEK ABOVE HIGHWAY 30/93 XING AT TWIN FALLS, ID--Continued

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

DATE	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)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT											
26...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
NOV											
30...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
DEC											
29...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
JAN											
26...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
FEB											
16...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
MAR											
24...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	E0.002
APR											
20...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
29...	<0.003	<0.007	<0.004	<0.013	E0.004	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
MAY											
06...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
19...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
JUN											
09...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.013	<0.013	<0.002	<0.001	<0.002
22...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
JUL											
08...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002
20...	<0.003	<0.007	<0.004	--	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	E0.002
AUG											
12...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	E0.003
27...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002

E Positive detection, but below stated detection limit.

SNAKE RIVER MAIN STEM

13094000 SNAKE RIVER NEAR BUHL, ID

LOCATION.--Lat 42°39'58", long 114°42'41", in NW¼NW¼ sec.9, T.9 S., R.15 E., Twin Falls County, Hydrologic Unit 17040212, on left bank 2 mi downstream from Niagara Springs, 3.8 mi upstream from outlet of Clear Lakes, 6 mi northeast of Buhl, and at mile 596.8.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,951.9 ft above sea level (stadia levels). Dec. 12, 1946 to July 13, 1965 at datum 1.00 ft higher. Prior to Jan. 17, 1947, nonrecording gage 40 ft upstream.

REMARKS.--Records fair. Flow regulated by American Falls Reservoir 116.8 mi upstream. Diurnal fluctuation caused by hydroelectric plants upstream. No diversions except by small ranch ditches between this station and station at Milner, where at times practically entire flow is diverted during irrigation seasons. Diversions above station for irrigation of about 2,030,000 acres, of which about 542,000 acres are irrigated by withdrawals from ground water; about 230,000 acres are irrigated below station. In addition, about 26,000 acres are irrigated above station by diversions from Salmon Falls Creek. Considerable water leaks into the Snake River Plain aquifer upstream, some of which returns above the station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,100 ft³/s June 22, 1997, gage height, 14.65 ft; minimum, 1,380 ft³/s Apr. 4, 5, 1991, gage height, 0.78 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 18,300 ft³/s June 8; minimum daily, 3,310 ft³/s Nov. 18, 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	4010	5400	9190	10300	8920	9250	10800	6630	10800	3970	3550	3830
2	3820	5070	9110	10100	9030	9200	7840	7580	12600	3400	3550	3720
3	3820	5500	8850	9980	8700	9340	12000	8490	14500	3340	3520	3790
4	3830	5490	9400	9820	8710	9430	11100	8500	15900	3380	3500	3850
5	3820	5000	9930	9660	8800	9420	11200	5610	16500	3430	3550	3810
6	3800	4890	9890	9530	8760	9450	12500	9810	17200	3360	3610	3800
7	3810	4790	9690	9550	8670	9460	13700	11700	17800	3330	3530	3670
8	3820	4930	9690	9570	9020	9430	14900	13200	18300	3310	3590	3610
9	3820	4880	9710	9620	9670	9440	14600	14200	18200	3330	3640	3500
10	3830	4790	9840	9720	9570	9290	14600	13500	17900	3330	3580	3420
11	3810	5310	9910	9740	9350	8600	14300	13300	17700	3330	3630	3410
12	3830	5450	9900	9790	9720	7730	14100	13600	17300	3370	3710	3450
13	3920	5530	9860	9780	8910	6500	13600	14000	17200	3340	3730	3510
14	3990	5530	9720	9770	9670	5590	13300	13400	17100	3340	3700	3420
15	3980	5490	9500	9800	9650	4510	13300	13400	17100	3390	3710	3420
16	3990	4310	9500	9570	9600	4460	13300	13300	16100	3430	3750	3410
17	3870	3760	9510	9270	9510	4450	13100	13200	13500	3430	3700	3430
18	3840	3310	9530	9220	9500	5230	13100	14100	11400	3460	3580	3450
19	3780	5090	9220	9230	9480	7510	12900	13500	10700	3530	3630	3470
20	3720	5810	9380	9390	9370	8890	11800	14000	10400	3480	3630	3500
21	3960	6820	8740	9750	9400	9970	11300	14500	10900	3430	3680	3510
22	3800	7420	10300	9860	9440	10900	10400	14200	10600	3440	3720	3540
23	3740	7870	10100	e10000	9420	11500	9380	13600	9370	3440	3770	3560
24	3750	8630	10100	e10000	9340	11700	9080	13000	8560	3460	3750	3580
25	3850	9050	9950	e10000	9270	11800	8170	12400	9070	3490	3700	3590
26	3880	9290	9960	9880	9170	11800	7790	10800	9180	3490	3730	3660
27	4460	9060	9960	9070	9130	11800	7160	9760	9470	3500	3750	3730
28	4850	9080	9970	9460	9230	11800	5970	9840	8570	3480	3750	3690
29	4990	9090	10100	9410	---	11700	5880	10200	6390	3470	3800	3620
30	5690	9130	8110	9190	---	11100	6110	10300	5290	3470	3850	3560
31	5660	---	10200	8970	---	10900	---	10800	---	3520	3780	---
TOTAL	125740	185770	298820	299000	259010	282150	337280	364420	395600	106470	113670	107510
MEAN	4056	6192	9639	9645	9250	9102	11240	11760	13190	3435	3667	3584
MAX	5690	9290	10300	10300	9720	11800	14900	14500	18300	3970	3850	3850
MIN	3720	3310	8110	8970	8670	4450	5880	5610	5290	3310	3500	3410
AC-FT	249400	368500	592700	593100	513700	559600	669000	722800	784700	211200	225500	213200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1999, BY WATER YEAR (WY)

MEAN	4387	4870	5503	6019	6198	6399	7480	6969	6814	3055	2849	3173
MAX	12260	14760	13350	15950	19570	21110	20570	19590	26480	7917	5811	8770
(WY)	1985	1985	1984	1984	1997	1997	1971	1984	1997	1983	1997	1997
MIN	2125	2133	2197	2154	1884	1545	1550	1633	1737	1816	1807	1876
(WY)	1978	1978	1962	1962	1993	1991	1990	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1947 - 1999	
ANNUAL TOTAL	2756640		2875440			
ANNUAL MEAN	7552		7878		5313	
HIGHEST ANNUAL MEAN					11620	1984
LOWEST ANNUAL MEAN					2116	1992
HIGHEST DAILY MEAN	18000	May 26	18300	Jun 8	36100	Jun 21 1997
LOWEST DAILY MEAN	3290	Jul 15	3310	Nov 18	1370	Apr 2 1990
ANNUAL SEVEN-DAY MINIMUM	3360	Jul 10	3330	Jul 7	1370	Apr 2 1990
ANNUAL RUNOFF (AC-FT)	5468000		5703000		3849000	
10 PERCENT EXCEEDS	12200		13300		11700	
50 PERCENT EXCEEDS	7670		8920		3310	
90 PERCENT EXCEEDS	3540		3490		2100	

e Estimated

13094000 SNAKE RIVER NEAR BUHL, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1965, March 1976, November 1990 to September 1991, August 1992 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1993, June to September 1994, July to September 1996, June to September 1997, Febuary to October 1998, May 12 to September 6, 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 23.2 °C July 19, 21-23, 26, 28, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 22.0 °C July 28-29.

WATER-QUALITY DATA, APRIL 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)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
13...	0915	13600	455	8.4	11.0	6.8	13	11.6	106	K8	K40
MAY											
11...	0915	13300	463	8.3	5.5	8.3	15	11.4	109	27	59
JUN											
14...	0945	17000	416	8.4	20.5	16.8	4.0	10.1	116	<1	43
JUL											
13...	0830	3360	516	--	18.0	18.2	6.2	8.0	96	K1	75
AUG											
17...	0845	3640	528	8.2	14.0	17.1	5.5	9.4	109	--	--
SEP											
08...	0945	3630	542	8.3	9.0	14.6	5.0	8.9	99	44	85

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
08...	210	51	20	31	24	4.5	200	3

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
08...	165	50	29	.63	27	317	.43	3110

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 TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
13...	<.010	.479	<.020	.55	.096	.021	36	1320
MAY								
11...	<.010	.384	.046	.47	.113	.026	41	1470
JUN								
14...	<.010	.279	.033	.46	.069	.012	31	1420
JUL								
13...	.018	1.26	.044	.43	.116	.068	20	181
AUG								
17...	<.010	1.32	<.020	.41	.102	.034	37	364
SEP								
08...	.020	1.39	.026	.41	.065	.033	28	274

K Results based on counts outside ideal colony range.

SNAKE RIVER MAIN STEM

13094000 SNAKE RIVER NEAR BUHL, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	---	---	---
2	---	---	---	---	---	---
3	---	---	---	---	---	---
4	---	---	---	---	---	---
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	---	---	---	---	---	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---
11	---	---	---	---	---	---
12	---	---	---	11.5	9.8	10.8
13	---	---	---	11.4	10.6	11.1
14	---	---	---	11.2	9.7	10.7
15	---	---	---	11.2	9.5	10.6
16	---	---	---	11.7	10.5	11.1
17	---	---	---	11.8	10.5	11.2
18	---	---	---	12.5	11.2	11.9
19	---	---	---	13.7	12.2	12.8
20	---	---	---	13.5	12.6	13.1
21	---	---	---	14.3	13.2	13.7
22	---	---	---	14.6	13.5	14.0
23	---	---	---	15.3	14.0	14.7
24	---	---	---	16.2	14.5	15.5
25	---	---	---	17.0	15.3	16.2
26	---	---	---	17.5	14.3	16.4
27	---	---	---	17.8	14.6	16.5
28	---	---	---	16.8	15.4	16.3
29	---	---	---	17.0	15.7	16.4
30	---	---	---	16.7	15.9	16.3
31	---	---	---	16.7	15.3	15.9
MONTH	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	16.7	15.3	16.0	---	---	---	21.0	19.4	20.2	17.5	15.3	16.6
2	16.1	15.4	15.7	---	---	---	21.2	19.3	20.2	17.5	15.4	16.4
3	15.4	14.5	14.9	---	---	---	21.2	19.4	20.3	17.2	15.3	16.1
4	14.9	14.3	14.6	---	---	---	21.4	18.9	20.1	17.5	14.8	16.1
5	15.4	14.9	15.2	---	---	---	20.9	19.1	20.0	17.8	14.9	16.3
6	15.4	14.9	15.2	---	---	---	21.2	18.8	19.9	17.8	15.3	16.5
7	14.9	14.5	14.7	---	---	---	20.4	18.6	19.6	---	---	---
8	15.3	14.5	14.8	---	---	---	20.9	18.1	19.5	---	---	---
9	14.9	14.3	14.7	---	---	---	21.0	18.3	19.7	---	---	---
10	15.3	14.5	14.8	---	---	---	20.1	18.6	19.2	---	---	---
11	16.1	15.1	15.5	---	---	---	19.4	18.0	18.7	---	---	---
12	16.7	15.9	16.3	---	---	---	20.4	17.6	18.9	---	---	---
13	17.3	16.7	16.9	---	---	---	20.4	18.0	19.1	---	---	---
14	18.3	17.3	17.8	20.7	19.3	20.0	20.4	17.6	19.0	---	---	---
15	18.4	18.0	18.3	20.6	18.1	19.4	19.9	17.3	18.6	---	---	---
16	18.9	18.3	18.6	20.9	16.8	19.0	20.1	17.0	18.5	---	---	---
17	19.6	18.4	19.1	21.4	17.2	19.3	20.4	16.4	18.5	---	---	---
18	20.1	18.0	19.2	20.9	17.0	19.0	20.2	17.3	18.8	---	---	---
19	20.7	17.5	19.1	20.7	16.8	19.0	20.7	18.1	19.5	---	---	---
20	20.4	17.3	19.3	21.4	17.5	19.6	20.9	18.6	19.8	---	---	---
21	20.2	18.1	19.1	21.0	17.0	19.3	21.0	18.9	19.9	---	---	---
22	20.1	16.8	18.8	21.4	17.6	19.7	21.2	18.6	19.8	---	---	---
23	20.1	17.2	18.9	21.9	17.8	19.9	20.9	18.4	19.7	---	---	---
24	19.9	17.2	18.9	21.0	18.3	19.7	21.0	18.9	20.0	---	---	---
25	19.4	16.7	18.2	21.0	17.5	19.3	21.2	18.4	19.9	---	---	---
26	19.1	15.1	17.6	21.5	17.5	19.5	21.2	18.1	19.7	---	---	---
27	18.6	15.7	17.4	21.5	18.6	20.1	20.6	18.3	19.5	---	---	---
28	18.4	15.3	17.2	22.0	18.9	20.6	20.9	18.3	19.5	---	---	---
29	19.7	15.9	18.0	22.0	19.4	20.7	20.9	18.0	19.5	---	---	---
30	19.7	17.8	18.6	21.4	18.9	20.2	20.4	17.8	19.2	---	---	---
31	---	---	---	21.5	18.6	20.2	18.4	16.2	17.3	---	---	---
MONTH	20.7	14.3	17.1	---	---	---	21.4	16.2	19.4	---	---	---

SNAKE RIVER MAIN STEM

13094000 SNAKE RIVER NEAR BUHL, ID--Continued

COLLECTION METHODS.--Electrofishing; boat (13A).

LENGTH OF REACH.--1285 m.

TIME ELAPSED FOR EACH METHOD.--Boat (13A)-0.75 hours.

ANOMALY CODES.--AA-none; DE- deformities; ER- eroded fins; LE -lesions; TU -tumors; AL- anchor worms; BL- black spot; CL -leeches; IC- ich; NE- blind; PA -other parasites; PE- popeye.

HABITAT QUALITY INDEX.--NA.

REMARKS.-- Large river, water turbid, abundant aquatic vegetation.

BIOLOGICAL DATA, SEPTEMBER 1999

FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	SEP 29								
Catostomidae (Suckers)									
Catostomus macrocheilus (Largescale sucker)		72	59	126-285	20-276	Native	Omnivore	Warm	2-AL, 4-LE 6-PA, 60-AA
Cichlidae (cichlids)									
Tilapia sp. (Tilapia)		1	0.8	82	12	Introduced	Invertivore	Warm	1-AA
Cottidae (Sculpins)									
Cottus bairdi (Mottled sculpin)		17	13.9	41-96	1-15	Native	Invertivore	Cold	17-AA
Cyprinidae (Carps and minnows)									
Cyprinus carpio (Common Carp)		14	11.5	61-96	5-19	Introduced	Omnivore	Warm	14-AA
Mylocheilus caurinus (Peamouth)		1	0.8	66	3	Native	Invertivore	Cool	1-AA
Ptychocheilus oregonensis (Northern pikeminnow)		9	7.4	40-461	1-957	Native	Piscivore	Cool	9-AA
Richardsonius balteatus (Redside shiner)		3	2.4	65-132	3-28	Native	Invertivore	Cold	3-AA
Rhynichthys cataractae (Longnose dace)		1	0.8	43	1	NATIVE	INVERTIVORE	COOL	1-AA
Rhinichthys osculus (Speckled dace)		1	0.8	36	1	Native	Invertivore	Cold	1-AA
Salmonidae (Trouts)									
Oncorhynchus mykiss sp. (Rainbow trout)		2	1.6	130-342	30-427	[a]NATIVE	INVERTIVORE	COLD	2-AA
Prosopium williamsoni (Mountain whitefish)		1	0.8	140	20	NATIVE	INVERTIVORE	COLD	1-AA

a-Rainbow trout are considered native in Idaho downstream of Shoshone Falls and introduced upstream of Shoshone Falls.

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 11
TOTAL INDIVIDUALS 1221

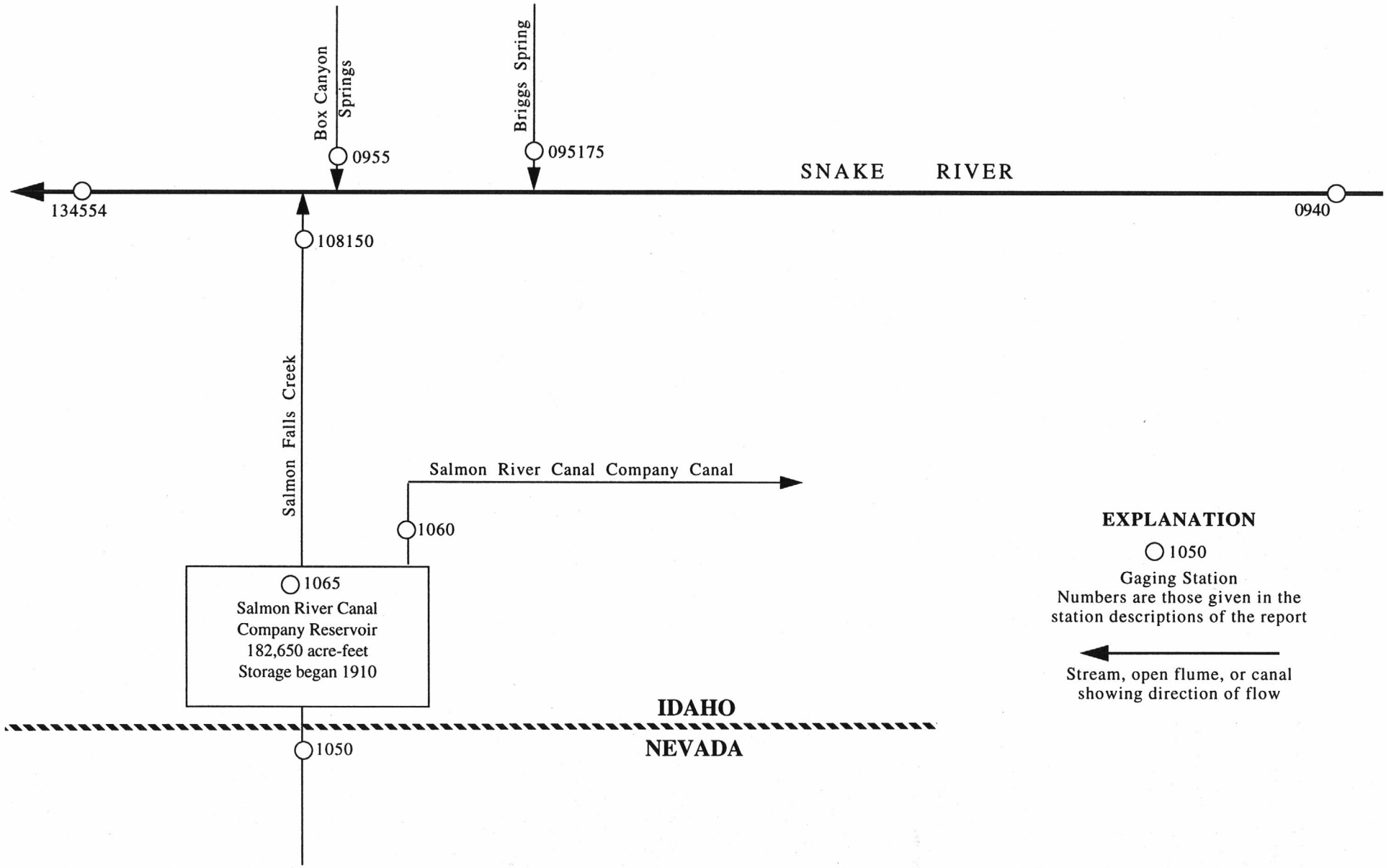


Figure 13. Gaging stations in Snake River basin between Snake River near Buhl and Salmon Falls Creek.

BRIGGS SPRING BASIN

13095175 BRIGGS SPRING AT HEAD, NEAR BUHL, ID

LOCATION.--Lat 42°40'26", long 114°48'30", in NW¼NW¼SW¼ sec.3, T.9 S., R.14 E., Gooding County, on right bank at road crossing, ⅛ mi downstream from head of spring, and 6 mi northwest of Buhl.

PERIOD OF RECORD.--April 1989 to current year. Miscellaneous measurements made in previous years may not be equivalent. (See sta 13095200)

GAGE.--Water-stage recorder. Elevation of gage is 3,000 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Small diversion above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 118 ft³/s Oct. 8-10, 14, 15, 17-28, 31, Nov. 1, 3-12, 1989; minimum daily, 95 ft³/s June 24-30, July 11-15, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 116 ft³/s Oct. 23 to Nov. 15; minimum daily, 100 ft³/s June 24 to July 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	112	116	114	111	108	107	106	102	101	100	101	105
2	112	116	114	111	108	107	106	102	101	100	101	105
3	112	116	114	111	108	107	106	102	101	100	101	106
4	112	116	114	111	108	107	105	102	101	100	101	106
5	112	116	113	110	108	107	105	102	102	100	101	106
6	112	116	113	110	108	107	105	102	102	100	101	106
7	112	116	113	110	108	107	105	102	102	100	101	107
8	112	116	113	110	108	107	105	102	102	100	101	107
9	112	116	113	110	108	107	105	102	102	100	101	107
10	112	116	113	110	108	107	105	102	102	100	102	107
11	112	116	113	110	108	107	105	102	102	100	102	107
12	112	116	113	110	107	107	104	102	102	100	102	107
13	112	116	113	110	107	106	104	102	102	100	101	107
14	112	116	112	110	108	106	104	102	102	100	101	107
15	113	116	112	110	107	106	104	102	101	100	102	107
16	113	115	112	109	107	106	104	102	102	100	102	107
17	113	115	112	109	108	106	104	102	102	100	102	108
18	113	115	112	109	107	106	104	102	102	100	102	108
19	113	115	112	109	107	106	104	102	101	100	102	108
20	113	115	112	109	107	106	104	102	101	100	102	108
21	113	115	112	109	107	106	104	102	101	100	102	108
22	114	114	112	109	107	106	103	101	101	100	102	108
23	116	114	112	109	107	106	103	101	101	101	103	108
24	116	114	112	109	107	106	102	101	100	101	103	108
25	116	114	112	109	107	106	102	101	100	101	104	108
26	116	114	112	109	107	106	102	101	100	101	104	109
27	116	114	112	109	107	106	102	101	100	101	104	109
28	116	114	112	109	107	106	102	101	100	101	105	109
29	116	114	111	108	---	106	102	101	100	101	105	109
30	116	114	111	108	---	106	102	101	100	101	105	110
31	116	---	111	108	---	106	---	101	---	101	105	---
TOTAL	3517	3456	3486	3395	3009	3298	3118	3152	3036	3109	3171	3222
MEAN	113	115	112	110	107	106	104	102	101	100	102	107
MAX	116	116	114	111	108	107	106	102	102	101	105	110
MIN	112	114	111	108	107	106	102	101	100	100	101	105
AC-FT	6980	6850	6910	6730	5970	6540	6180	6250	6020	6170	6290	6390

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

MEAN	112	111	109	107	105	104	102	100	100	100	103	108
MAX	118	117	114	111	109	107	105	102	104	104	106	113
(WY)	1990	1990	1990	1990	1998	1998	1998	1990	1990	1997	1990	1989
MIN	107	106	104	103	102	102	99.8	96.8	97.3	95.9	100	104
(WY)	1996	1996	1996	1996	1993	1993	1996	1993	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1989 - 1999	
ANNUAL TOTAL	39257		38969			
ANNUAL MEAN	108		107		105	
HIGHEST ANNUAL MEAN					108	1990
LOWEST ANNUAL MEAN					102	1996
HIGHEST DAILY MEAN	116	Oct 23	116	Oct 23	118	Oct 8 1989
LOWEST DAILY MEAN	100	May 8	100	Jun 24	95	Jun 24 1996
ANNUAL SEVEN-DAY MINIMUM	100	May 5	100	Jun 24	95	Jun 24 1996
ANNUAL RUNOFF (AC-FT)	77870		77300		76220	
10 PERCENT EXCEEDS	114		114		113	
50 PERCENT EXCEEDS	107		107		104	
90 PERCENT EXCEEDS	103		101		100	

BOX CANYON SPRINGS BASIN

13095500 BOX CANYON SPRINGS NEAR WENDELL, ID

LOCATION.--Lat 42°42'29", long 114°48'35", in NW¼SW¼NE¼ sec.28, T.8 S., R.14 E., Gooding County, Hydrologic Unit 17040212, on left bank 150 ft downstream from waterfall, 0.8 mi downstream from source, at mile 0.5, 7.5 mi southwest of Wendell, and 588.8 mi upstream from mouth of Snake River.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1950 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,950 ft above sea level, from topographic map.

REMARKS.--Records good. No regulation or surface diversion above station. Discharge affected at times by variable surface waste from irrigation, which flows over rimrocks into springs above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 483 ft^3/s Oct. 9, 14, 15, 18, 19, 1965; minimum daily, 311 ft^3/s May 21, 1993, June 30, July 1, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 377 ft^3/s Oct. 27-29, Nov. 1, 2; minimum daily, 339 ft^3/s July 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	371	377	369	362	356	351	349	346	344	342	e340	349
2	371	377	370	362	356	350	348	347	344	342	e340	350
3	372	376	370	362	355	350	349	348	344	342	e340	351
4	373	376	370	361	355	350	349	348	344	342	e340	351
5	373	376	369	361	355	349	348	348	345	342	e340	352
6	373	376	369	361	355	349	348	348	346	342	e340	353
7	373	375	368	361	355	349	348	349	347	342	e340	353
8	373	375	368	361	354	349	348	349	347	342	e340	353
9	373	375	367	360	355	349	349	349	347	341	e340	353
10	373	374	366	360	354	349	348	349	347	340	e340	353
11	373	374	367	360	353	349	347	348	347	340	e340	353
12	373	373	366	360	352	348	348	348	346	340	e340	352
13	374	373	367	360	353	348	348	349	345	340	e340	353
14	374	374	366	360	353	348	348	348	344	340	e340	353
15	375	374	366	360	352	349	347	348	344	339	e340	354
16	375	374	365	360	352	349	348	347	344	e340	e340	355
17	375	374	366	359	353	348	349	347	344	e340	e340	355
18	375	373	366	359	352	348	348	347	343	e340	342	356
19	375	373	366	358	352	348	348	346	342	e340	342	356
20	375	373	366	359	351	348	348	346	342	e340	342	357
21	374	373	365	359	352	349	348	346	342	e340	342	356
22	374	372	364	358	351	348	347	344	342	e340	343	356
23	375	372	364	358	351	348	347	344	342	e340	344	356
24	375	372	364	358	351	348	346	344	342	e340	344	356
25	376	371	364	357	351	348	346	344	342	e340	346	356
26	376	371	364	358	351	349	347	343	342	e340	346	357
27	377	371	364	357	351	349	346	343	341	e340	346	357
28	377	371	363	357	351	349	347	343	341	e340	346	357
29	377	371	363	356	---	349	346	344	342	e340	346	357
30	376	370	363	355	---	349	346	344	341	e340	348	358
31	376	---	363	356	---	349	---	343	---	e340	349	---
TOTAL	11602	11206	11348	11135	9882	10813	10429	10737	10313	10556	10606	10628
MEAN	374	374	366	359	353	349	348	346	344	341	342	354
MAX	377	377	370	362	356	351	349	349	347	342	349	358
MIN	371	370	363	355	351	348	346	343	341	339	340	349
AC-FT	23010	22230	22510	22090	19600	21450	20690	21300	20460	20940	21040	21080

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

MEAN	417	408	394	383	374	368	362	363	375	382	396	411
MAX	479	457	440	432	416	412	399	407	429	440	449	472
(WY)	1966	1966	1973	1954	1952	1952	1959	1953	1952	1956	1965	1965
MIN	338	335	330	327	323	320	316	313	316	315	323	333
(WY)	1993	1993	1993	1993	1994	1994	1994	1993	1994	1994	1994	1995

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1950 - 1999	
ANNUAL TOTAL	129298		129255			
ANNUAL MEAN	354		354		386	
HIGHEST ANNUAL MEAN					430	1952
LOWEST ANNUAL MEAN					325	1993
HIGHEST DAILY MEAN	377	Oct 27	377	Oct 27	483	Oct 9 1965
LOWEST DAILY MEAN	337	May 9	339	Jul 15	311	May 21 1993
ANNUAL SEVEN-DAY MINIMUM	338	May 5	340	Jul 10	311	May 21 1993
ANNUAL RUNOFF (AC-FT)	256500		256400		279500	
10 PERCENT EXCEEDS	373		373		435	
50 PERCENT EXCEEDS	351		350		384	
90 PERCENT EXCEEDS	340		340		340	

e Estimated

BOX CANYON SPRINGS BASIN

13095500 BOX CANYON SPRINGS NEAR WENDELL, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979-81, 1984 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July to September 1994, May to September 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

REMARKS.--Intermittent water chemistry June 1949 to March 1976.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 15.4 °C June 14-15, 1999.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 15.4 °C June 14-15.

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)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
NOV											
17...	0915	374	402	8.0	5.0	13.3	--	8.8	96	--	--
MAR											
18...	1100	348	407	8.0	7.5	13.8	--	8.5	95	--	--
APR											
16...	0900	348	420	8.0	2.5	13.4	.59	10.7	116	K2	K4
MAY											
14...	0830	348	419	7.9	6.0	13.5	8.0	10.2	112	K4	40
JUN											
16...	0800	344	406	8.0	20.0	13.9	1.0	8.6	94	K2	K5
JUL											
14...	0845	340	408	7.9	22.0	13.6	1.5	8.6	94	K1	76
AUG											
16...	0945	342	409	8.0	17.0	13.8	.15	9.1	98	K2	110
SEP											
13...	0930	353	412	7.9	10.0	13.5	.23	9.4	101	K4	K4

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
13...	160	37	16	20	21	3.8	170	0

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
13...	138	34	21	.61	35	255	.35	243

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 TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV								
17...	<.010	1.13	<.020	--	<.10	.014	.014	.015
MAR								
18...	<.010	.997	.020	--	<.10	.018	.015	.018
APR								
16...	<.010	.985	<.020	E.09	--	E.030	--	.026
MAY								
14...	<.010	1.05	<.020	E.08	--	E.030	--	<.010
JUN								
16...	<.010	.929	<.020	.15	--	E.037	--	.023
JUL								
14...	<.010	.974	<.020	.46	--	<.050	--	<.010
AUG								
16...	<.010	1.01	<.020	.11	--	<.050	--	.012
SEP								
13...	<.010	1.15	<.020	E.08	--	<.050	--	.014

BOX CANYON SPRINGS BASIN

13095500 BOX CANYON SPRINGS NEAR WENDELL, ID--Continued

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

DATE	TIME	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	CHLOR-P,P' DDE DISSOLV (UG/L) (34653)	PYRIFOS DIS-SOLVED (UG/L) (38933)	LINDANE DIS-SOLVED (UG/L) (39341)
NOV												
17...	0915	<.0070	<.0020	<.0050	<.0180	E.0032	<.0040	<.0030	<.0020	<.0060	<.0040	<.004
MAR												
18...	1100	<.0070	<.0020	<.0050	<.0180	E.0023	<.0040	<.0030	<.0020	<.0060	<.0040	<.004

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
NOV												
17...	<.001	<.002	<.005	<.004	<.002	.004	<.002	<.004	<.0030	<.0020	<.0040	<.0020
MAR												
18...	<.001	<.002	<.005	<.004	<.002	E.002	<.002	<.004	<.0030	<.0020	<.0040	<.0020

DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
NOV												
17...	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040	<.0030	<.0020	<.0030	<.0130	<.0030
MAR												
18...	<.0070	<.0020	<.0060	.0052	<.0040	<.0100	<.0040	<.0030	<.0020	<.0030	<.0130	<.0030

DATE	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
NOV											
17...	<.0170	<.0010	<.0040	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
MAR											
18...	<.0170	<.0010	<.0040	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050

E Positive detection, but below stated detection limit.
K Results based on counts outside ideal range.

BOX CANYON SPRINGS BASIN

13095500 BOX CANYON SPRINGS NEAR WENDELL, ID

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	---	---	---
2	---	---	---	---	---	---
3	---	---	---	---	---	---
4	---	---	---	---	---	---
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	---	---	---	---	---	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---
11	---	---	---	---	---	---
12	---	---	---	---	---	---
13	---	---	---	---	---	---
14	---	---	---	---	---	---
15	---	---	---	14.7	14.2	14.4
16	---	---	---	14.7	14.3	14.5
17	---	---	---	14.8	14.3	14.5
18	---	---	---	14.8	14.5	14.6
19	---	---	---	14.8	14.5	14.6
20	---	---	---	14.8	14.3	14.6
21	---	---	---	14.8	14.5	14.6
22	---	---	---	14.8	14.3	14.5
23	---	---	---	14.8	14.3	14.6
24	---	---	---	14.8	14.5	14.6
25	---	---	---	14.8	14.5	14.6
26	---	---	---	14.8	14.3	14.6
27	---	---	---	14.8	14.3	14.6
28	---	---	---	14.8	14.5	14.6
29	---	---	---	14.8	14.5	14.6
30	---	---	---	14.7	14.3	14.5
31	---	---	---	14.7	14.3	14.6
MONTH	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.8	14.5	14.6	15.0	14.5	14.6	14.8	14.5	14.6	14.7	14.3	14.5
2	14.7	14.5	14.5	15.0	14.3	14.6	14.8	14.5	14.6	14.7	14.3	14.5
3	14.7	14.5	14.6	15.3	14.3	14.6	14.8	14.5	14.6	14.7	14.3	14.5
4	14.8	14.3	14.5	15.3	14.3	14.6	14.8	14.5	14.6	14.8	14.3	14.5
5	14.8	14.5	14.6	15.1	14.3	14.6	14.8	14.5	14.6	14.8	14.3	14.5
6	14.7	14.3	14.5	15.0	14.5	14.7	14.8	14.5	14.7	14.8	14.3	14.6
7	14.8	14.3	14.5	15.0	14.5	14.6	14.8	14.5	14.6	14.8	14.3	14.5
8	15.1	14.3	14.6	15.0	14.3	14.6	14.8	14.5	14.6	14.8	14.3	14.5
9	15.3	14.3	14.6	15.0	14.3	14.6	14.8	14.5	14.6	14.7	14.3	14.5
10	15.3	14.3	14.6	15.0	14.3	14.6	14.7	14.5	14.6	14.8	14.5	14.6
11	15.3	14.3	14.6	15.0	14.5	14.6	14.8	14.5	14.6	14.8	14.3	14.5
12	15.3	14.3	14.7	15.0	14.5	14.7	14.8	14.5	14.6	---	---	---
13	15.1	14.5	14.6	15.0	14.5	14.7	14.8	14.5	14.6	---	---	---
14	15.4	14.5	14.7	14.8	14.5	14.6	14.8	14.5	14.6	---	---	---
15	15.4	14.5	14.7	15.0	14.3	14.6	14.8	14.5	14.6	---	---	---
16	15.1	14.5	14.7	15.0	14.5	14.6	15.0	14.3	14.6	---	---	---
17	15.1	14.5	14.7	15.0	14.5	14.6	15.0	14.5	14.6	---	---	---
18	15.1	14.5	14.7	15.0	14.5	14.6	14.8	14.5	14.6	---	---	---
19	14.8	14.5	14.6	14.8	14.5	14.6	15.0	14.5	14.7	---	---	---
20	15.1	14.5	14.7	15.0	14.5	14.6	14.8	14.5	14.7	---	---	---
21	14.8	14.5	14.6	15.0	14.5	14.6	15.0	14.5	14.7	---	---	---
22	15.1	14.5	14.6	15.0	14.5	14.6	14.8	14.5	14.6	---	---	---
23	15.0	14.5	14.7	15.0	14.5	14.6	15.0	14.5	14.6	---	---	---
24	15.0	14.5	14.7	14.8	14.5	14.6	15.0	14.5	14.7	---	---	---
25	14.8	14.5	14.6	14.8	14.5	14.6	15.0	14.5	14.6	---	---	---
26	15.0	14.3	14.6	14.8	14.5	14.6	15.0	14.5	14.6	---	---	---
27	15.0	14.5	14.6	14.8	14.5	14.7	14.8	14.5	14.6	---	---	---
28	15.0	14.3	14.6	15.0	14.5	14.7	15.0	14.5	14.6	---	---	---
29	15.0	14.5	14.7	14.8	14.5	14.7	15.0	14.5	14.6	---	---	---
30	15.0	14.5	14.6	14.8	14.5	14.6	14.8	14.3	14.6	---	---	---
31	---	---	---	14.8	14.5	14.6	14.8	14.3	14.5	---	---	---
MONTH	15.4	14.3	14.6	15.3	14.3	14.6	15.0	14.3	14.6	---	---	---

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, Nevada, Hydrologic Unit 17040213, on right bank in canyon, 630 ft downstream from bridge on U.S. Highway 93, 550 ft downstream from Shoshone Creek, and 5 mi north of San Jacinto.

DRAINAGE AREA.--1,450 mi^2, approximately. Mean elevation, 6,350 ft.

PERIOD OF RECORD.--September 1909 to June 1910 (gage heights only), June 1910 to September 1916, October 1918 to current year. Monthly discharge only for some periods published in WSP 1317. Prior to October 1910, published as "Salmon Falls River".

REVISED RECORDS.--WSP 1934: 1943(M).

GAGE.--Water-stage recorder. Elevation of gage is 5,120 ft above sea level, by barometer. Prior to June 6, 1910, nonrecording gage at nearby site at different datum. June 6, 1910 to Sept. 30, 1916, Oct. 1, 1918 to Aug. 28, 1964, water-stage recorder at site 35 ft upstream at same datum.

REMARKS.--Records good 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 (see sta 13106500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,860 ft^3/s May 16, 1984, gage height, 14.27 ft; minimum, 2.6 ft^3/s Sept. 4, 1961, gage height, 3.37 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 713 ft^3/s May 31; minimum daily, 18 ft^3/s Sept. 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	1984
LOWEST ANNUAL MEAN					45.4	1934
HIGHEST DAILY MEAN	1080	May 17	713	May 31	3620	May 16 1984
LOWEST DAILY MEAN	15	Sep 2	18	Aug 30	3.2	Sep 4 1961
ANNUAL SEVEN-DAY MINIMUM	19	Aug 29	20	Aug 25	5.7	Sep 1 1961
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

SALMON FALLS CREEK BASIN

13106000 SALMON RIVER CANAL CO. CANAL NEAR ROGERSON, ID

LOCATION.--Lat 42°13'10", long 114°44'20", in SE¼NW¼SE¼ sec.7, T.14 S., R.15 E., Twin Falls County, Hydrologic Unit 17040213, U.S. Bureau of Land Management lands, on left bank 0.5 mi downstream from Salmon River Canal Co. reservoir, and 7 mi west of Rogerson.

PERIOD OF RECORD.--April 1937 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,940 ft above sea level, by barometer. Oct. 1, 1953 to Sept. 30, 1954, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Canal diverts from Salmon River Canal Co. reservoir (see sta 13106500) for irrigation of land in the Salmon River Canal Co. project.

AVERAGE DISCHARGE.--62 years, 106 ft^3/s, 76,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 660 ft^3/s July 21-24, 1944; no flow for long periods in each year.

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	180	---	---	---	---	---	---	.00	328	436	461	289
2	157	---	---	---	---	---	---	.00	321	427	460	262
3	147	---	---	---	---	---	---	.00	311	426	466	256
4	110	---	---	---	---	---	---	.00	282	425	468	242
5	.00	---	---	---	---	---	---	.00	281	433	453	242
6	.00	---	---	---	---	---	---	.00	274	461	443	240
7	.00	---	---	---	---	---	---	.00	271	463	391	239
8	.00	---	---	---	---	---	---	.00	255	490	389	237
9	.00	---	---	---	---	---	---	.00	261	480	406	235
10	.00	---	---	---	---	---	---	.00	287	483	408	226
11	.00	---	---	---	---	---	---	.00	302	494	429	225
12	.00	---	---	---	---	---	---	.00	353	508	411	226
13	.00	---	---	---	---	---	---	.00	361	511	347	224
14	.00	---	---	---	---	---	---	.00	371	517	341	219
15	.00	---	---	---	---	---	---	.00	380	505	317	214
16	.00	---	---	---	---	---	---	.00	399	490	320	214
17	.00	---	---	---	---	---	---	.00	388	491	346	166
18	.00	---	---	---	---	---	---	154	386	499	354	.00
19	.00	---	---	---	---	---	---	176	379	500	388	.00
20	.00	---	---	---	---	---	---	207	356	507	394	.00
21	.00	---	---	---	---	---	---	246	352	510	395	.00
22	.00	---	---	---	---	---	---	242	346	508	387	.00
23	.00	---	---	---	---	---	---	276	341	506	382	.00
24	.00	---	---	---	---	---	---	296	352	499	381	.00
25	.00	---	---	---	---	---	---	336	361	491	375	.00
26	.00	---	---	---	---	---	---	354	394	489	365	.00
27	.00	---	---	---	---	---	---	379	407	484	346	.00
28	.00	---	---	---	---	---	---	370	448	483	343	.00
29	.00	---	---	---	---	---	---	348	440	484	337	.00
30	.00	---	---	---	---	---	---	344	439	484	326	.00
31	.00	---	---	---	---	---	---	329	---	476	298	---
TOTAL	594.00	---	---	---	---	---	---	4057.00	10426	14960	11927	3956.00
MEAN	19.2	---	---	---	---	---	---	131	348	483	385	132
MAX	180	---	---	---	---	---	---	379	448	517	468	289
MIN	.00	---	---	---	---	---	---	.00	255	425	298	.00
AC-FT	1180	---	---	---	---	---	---	8050	20680	29670	23660	7850

SALMON FALLS CREEK BASIN

13106500 SALMON RIVER CANAL CO. RESERVOIR NEAR ROGERSON, ID

LOCATION.--Lat 42°12'40", long 114°44'00", in NE¼ sec.18, T.14 S., R.15 E., Twin Falls County, Hydrologic Unit 17040213, U.S. Bureau of Land Management lands, at Salmon Falls Dam on Salmon Falls Creek, 7.5 mi west of Rogerson, and at mile 46.0.

DRAINAGE AREA.--1,610 mi^2, approximately.

PERIOD OF RECORD.--January 1922 to current year.

GAGE.--Nonrecording gage. Datum of gage is 4,945.8 ft above sea level.

REMARKS.--Reservoir is formed by gravity-section concrete-arch dam completed in 1911; storage began in 1910. Usable capacity, 182,650 acre-ft between gage heights 0.0 (bottom of outlet tunnel) and 80.0 ft, maximum operating level. Dead storage, 48,000 acre-ft. Reservoir spilled May 11 to June 29, 1984, and Apr. 22-30, 1985, the first times since construction in 1911. Water is used for irrigation of lands in Salmon River Canal Co. project. Figures given herein represent usable contents.

COOPERATION.--Gage readings and capacity table provided by Salmon River Canal Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 180,600 acre-ft June 20, July 2, 3, 1984, gage height, 79.40 ft; minimum observed, 125 acre-ft Sept. 21 to Oct. 5, 1934, gage height, 0.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 122,500 acre-ft June 12, gage height, 60.65 ft; minimum observed, 50,100 acre-ft Sept. 27-30, gage height, 30.65 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

30.0	48,800	50.0	93,800
40.0	69,800	60.0	120,600
		70.0	150,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74300	73900	75500	76600	78700	81000	88800	101600	119500	113200	82400	58000
2	73900	73900	75500	76800	78800	81000	89000	102300	119800	112400	81400	57300
3	73600	74000	75600	76900	78800	81400	89200	103100	120200	111400	80500	56700
4	73400	74000	75700	76900	78800	81700	89500	104000	120600	110600	79500	56400
5	73300	74000	75700	76900	78900	81800	89800	105100	121100	109800	78600	55900
6	73300	74200	75800	76900	78900	82000	90000	106300	121400	108900	78000	55300
7	73300	74200	75800	77000	79000	82000	90400	107100	121600	108100	76900	54800
8	73300	74200	75800	77000	79200	82200	90600	108200	121800	107000	76100	54400
9	73300	74200	75800	77100	79300	82300	90900	108900	122000	106000	75300	53800
10	73200	74300	75800	77100	79300	82400	91100	109800	122200	105100	74600	53500
11	73200	74300	75800	77200	79400	82400	91500	110600	122300	104000	73600	53000
12	73200	74400	75800	77200	79500	82600	91600	111400	122500	103100	72700	52600
13	73200	74400	75900	77200	79600	82800	91800	112400	122000	101900	71900	52200
14	73200	74600	75900	77200	79600	82800	92000	113200	121600	100800	71300	51800
15	73300	74600	76100	77300	79600	82800	92400	113800	121400	99700	70500	51400
16	73300	74600	76200	77600	79800	82900	92800	114600	120900	99000	70000	51000
17	73300	74700	76200	77600	79900	83100	93200	115500	120600	97800	69200	50500
18	73300	74800	76300	77800	80000	83200	93400	116000	120500	96700	68600	50500
19	73300	74800	76300	77800	80000	83500	93900	116300	120000	95800	67700	50500
20	73300	74800	76300	78000	80100	83700	94400	116900	119700	94700	67000	50500
21	73300	74900	76300	78000	80100	84100	94900	116700	119200	93700	66100	50500
22	73300	75000	76300	78100	80200	84400	95600	117000	118800	92500	65300	50500
23	73300	75000	76300	78200	80400	84800	96200	117200	118400	91500	64600	50500
24	73300	75100	76300	78200	80400	85000	97000	117300	118000	90400	63800	50500
25	73500	75300	76300	78400	80500	85600	97600	117600	117600	89400	63000	50500
26	73600	75300	76300	78500	80600	86000	98200	117600	117200	88400	62300	50500
27	73600	75300	76300	78500	80600	86600	98600	117700	116200	87400	61400	50100
28	73600	75300	76400	78600	80700	87100	99300	117800	115500	86200	61100	50100
29	73600	75400	76400	78600	---	87600	99900	118300	114600	85300	60000	50100
30	73800	75500	76500	78700	---	88000	100800	118700	113900	84300	59300	50100
31	73800	---	76600	78700	---	88400	---	119100	---	83400	58600	---
MAX	74300	75500	76600	78700	80700	88400	100800	119100	122500	113200	82400	58000
MIN	73200	73900	75500	76600	78700	81000	88800	101600	113900	83400	58600	50100
†	41.70	42.45	42.95	43.85	44.70	47.85	52.70	59.45	57.60	45.80	34.85	30.65
‡	-500	1600	1100	2100	2000	7400	12000	17500	-5600	-29800	-23800	-7900

CAL YR 1998 MAX 136300 MIN 71800 ‡ 4800
WTR YR 1999 MAX 122500 MIN 50100 ‡ -24200

† Gage height, in feet, at end of month.
‡ Change in contents, in acre-feet.

SALMON FALLS CREEK BASIN

13108150 SALMON FALLS CREEK NEAR HAGERMAN, ID

LOCATION.--Lat 42°41'47", long 114°51'15", in SW¼SE¼SE¼ sec.30, T.8 S., R.14 E., Twin Falls County, Hydrologic Unit 17040213, on left bank 25 ft upstream from U.S. Highway 30, at mile 1.9, and 8.5 mi south of Hagerman.

DRAINAGE AREA.--2,120 mi^2, approximately.

PERIOD OF RECORD.--April 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,891.06 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow completely regulated by Salmon River Canal Co. reservoir 44 mi upstream (see sta 13106500). Flow below the dam is derived from leakage past the dam and return flow from adjacent land. Several diversions by pumping from the left bank below the dam are used for irrigation. Flow past gage is partially regulated during irrigation season by small diversion dam 0.9 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,500 ft^3/s May 16, 1984, gage height, 18.14 ft, on basis of contracted opening measurement of peak flow, result of roadfill collapse approximately 13 mi upstream, (Salmon River Canal Co. reservoir spilled into Salmon Falls Creek May 11 to June 29, 1984 and Apr. 22-30, 1985, the only times since construction of the dam in 1910). Maximum discharge excluding 1984, 3,390 ft^3/s Jan. 12, 1979, gage height, 9.60 ft; minimum, 5.8 ft^3/s July 9, 1977, gage height, 2.51 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 322 ft^3/s Sept. 28; minimum daily, 58 ft^3/s July 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	292	265	190	169	157	187	179	254	149	62	100	229
2	285	268	188	167	154	185	174	268	176	64	109	213
3	290	229	187	165	154	185	171	260	184	58	108	224
4	289	214	186	164	154	183	174	263	158	59	121	234
5	301	211	184	163	152	183	178	267	168	74	129	228
6	301	208	185	164	152	182	169	260	177	77	e129	231
7	285	203	181	164	158	183	168	226	210	69	e135	229
8	271	201	180	162	158	183	197	221	208	71	e139	235
9	278	199	180	161	160	184	225	231	175	96	135	224
10	283	198	176	161	154	183	216	239	169	83	127	225
11	291	198	174	161	150	183	225	213	170	85	142	228
12	285	195	179	160	145	182	218	190	156	90	143	233
13	280	195	183	159	145	181	221	169	127	85	148	233
14	279	196	181	158	157	180	215	163	122	82	143	235
15	273	196	175	164	158	181	224	169	109	86	142	230
16	277	194	174	162	163	184	225	181	89	95	145	231
17	279	198	175	160	182	185	217	178	99	90	149	223
18	281	191	176	160	190	193	210	154	89	89	144	229
19	280	190	171	159	187	193	205	148	81	107	135	242
20	280	190	166	167	183	195	187	132	83	103	122	245
21	279	198	162	163	183	188	181	134	110	94	123	249
22	285	196	162	159	182	181	212	123	110	99	128	240
23	281	194	163	165	183	180	209	113	99	93	148	230
24	273	195	165	159	180	181	195	113	90	88	144	241
25	273	189	168	157	187	181	188	90	75	88	137	252
26	273	190	172	159	185	181	188	100	94	98	144	276
27	278	189	178	156	186	179	174	118	75	100	148	312
28	277	190	179	153	186	179	186	129	84	97	158	322
29	277	190	175	150	---	180	228	131	71	95	168	317
30	265	191	173	151	---	171	243	126	65	92	196	292
31	256	---	173	154	---	169	---	148	---	98	274	---
TOTAL	8697	6061	5461	4976	4685	5665	6002	5511	3772	2667	4413	7332
MEAN	281	202	176	161	167	183	200	178	126	86.0	142	244
MAX	301	268	190	169	190	195	243	268	210	107	274	322
MIN	256	189	162	150	145	169	168	90	65	58	100	213
AC-FT	17250	12020	10830	9870	9290	11240	11900	10930	7480	5290	8750	14540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1999, BY WATER YEAR (WY)

MEAN	239	198	171	166	157	152	172	181	140	70.1	106	196
MAX	314	244	202	233	203	243	334	1272	834	130	178	271
(WY)	1973	1973	1974	1972	1972	1972	1985	1984	1984	1997	1997	1986
MIN	178	163	140	117	118	109	89.7	50.6	36.5	28.4	52.2	117
(WY)	1993	1993	1984	1993	1993	1992	1977	1992	1992	1977	1988	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1970 - 1999	
ANNUAL TOTAL	67019		65242			
ANNUAL MEAN	184		179		162	
HIGHEST ANNUAL MEAN					314	1984
LOWEST ANNUAL MEAN					120	1992
HIGHEST DAILY MEAN	326	May 18	322	Sep 28	3440	May 16 1984
LOWEST DAILY MEAN	69	Jul 19	58	Jul 3	13	Jul 10 1977
ANNUAL SEVEN-DAY MINIMUM	76	Jul 14	65	Jun 29	16	Jul 14 1977
ANNUAL RUNOFF (AC-FT)	132900		129400		117600	
10 PERCENT EXCEEDS	280		268		238	
50 PERCENT EXCEEDS	181		179		158	
90 PERCENT EXCEEDS	107		97		72	

e Estimated

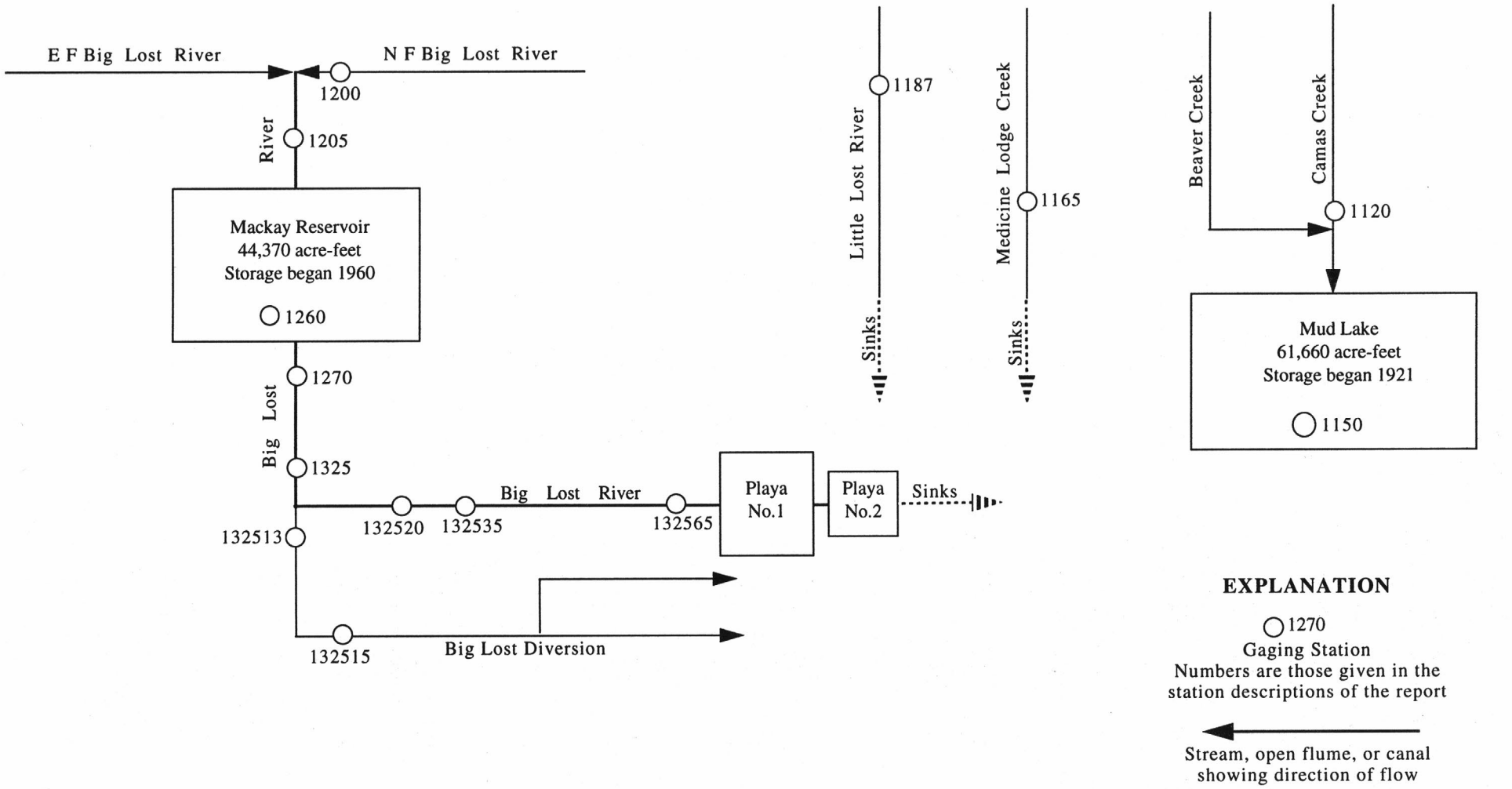


Figure 14. Gaging stations in Mud Lake-Lost River basins.

MUD LAKE-LOST RIVER BASINS

13109600 CAMAS CREEK DIVERSION ABOVE LONE TREE RESERVOIR, NEAR DUBOIS, ID

LOCATION.--Lat 44°14'53", long 111°54'56", in NW¼SE¼SE¼ sec.25, T.11 N., R.38 E., Clark County, Hydrologic Unit 17040214, at diversion structure, and 15 mi northeast of Dubois.

PERIOD OF RECORD.--April 1969 to May 1975, unpublished. 1980, 1983-86, 1993, 1995, 1999 (flood season only).

REVISED RECORDS.--WDR-ID-85-1: Station number.

GAGE.--Water-stage recorder. Elevation of gage is 6,130 ft above sea level, from topographic map. Prior to June 11, 1985, at site 0.2 mi downstream at different datum.

REMARKS.--Records fair. Flow controlled by headgates from Camas Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 730 ft³/s May 16, 1984; no flow for long periods, when headgates are closed.

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	---	---	---	---	---	---	---	---	e380	---	---	---
2	---	---	---	---	---	---	---	---	304	---	---	---
3	---	---	---	---	---	---	---	---	345	---	---	---
4	---	---	---	---	---	---	---	---	443	---	---	---
5	---	---	---	---	---	---	---	---	365	---	---	---
6	---	---	---	---	---	---	---	---	348	---	---	---
7	---	---	---	---	---	---	---	---	379	---	---	---
8	---	---	---	---	---	---	---	---	367	---	---	---
9	---	---	---	---	---	---	---	---	313	---	---	---
10	---	---	---	---	---	---	---	---	262	---	---	---
11	---	---	---	---	---	---	---	---	230	---	---	---
12	---	---	---	---	---	---	---	---	210	---	---	---
13	---	---	---	---	---	---	---	---	197	---	---	---
14	---	---	---	---	---	---	---	---	193	---	---	---
15	---	---	---	---	---	---	---	---	195	---	---	---
16	---	---	---	---	---	---	---	---	199	---	---	---
17	---	---	---	---	---	---	---	---	198	---	---	---
18	---	---	---	---	---	---	---	---	210	---	---	---
19	---	---	---	---	---	---	---	---	206	---	---	---
20	---	---	---	---	---	---	---	---	188	---	---	---
21	---	---	---	---	---	---	---	---	173	---	---	---
22	---	---	---	---	---	---	---	---	162	---	---	---
23	---	---	---	---	---	---	---	---	152	---	---	---
24	---	---	---	---	---	---	---	---	65	---	---	---
25	---	---	---	---	---	---	---	---	e.00	---	---	---
26	---	---	---	---	---	---	---	---	e.00	---	---	---
27	---	---	---	---	---	---	---	---	e.00	---	---	---
28	---	---	---	---	---	---	---	---	e.00	---	---	---
29	---	---	---	---	---	---	---	---	e.00	---	---	---
30	---	---	---	---	---	---	---	---	e.00	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	6084.00	---	---	---
MEAN	---	---	---	---	---	---	---	---	203	---	---	---
MAX	---	---	---	---	---	---	---	---	443	---	---	---
MIN	---	---	---	---	---	---	---	---	.00	---	---	---
AC-FT	---	---	---	---	---	---	---	---	12070	---	---	---

e Estimated

MUD LAKE-LOST RIVER BASINS

13112000 CAMAS CREEK AT CAMAS, ID

LOCATION.--Lat 44°00'10", long 112°13'12", in SE¼SE¼ sec.21, T.8 N., R.36 E., Jefferson County, Hydrologic Unit 17040214, on left bank 150 ft upstream from county road bridge, 250 ft upstream from Union Pacific Railroad bridge at Camas, and about 1.1 mi upstream from Beaver Creek.

DRAINAGE AREA.--400 mi^2, approximately. Mean elevation, 6,450 ft.

PERIOD OF RECORD.--April 1925 to October 1970, April 1971 to September 1982, May 1983 to September 1986, April to May 1987, (discharge measurements only November, December, March and June 1987). April to June 1988 (discharge measurement only March 1988), April to June 1989, March 1990 to current year.

REVISED RECORDS.--WSP 813: 1935. WSP 1123: 1947. WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,806.84 ft above sea level. Prior to Aug. 21, 1925, nonrecording gage at site 0.1 mi downstream at different datum. Aug. 21, 1925 to Mar. 25, 1927, nonrecording gage, and Mar. 26, 1927 to Sept. 14, 1938, water-stage recorder at site 250 ft upstream at datum 2.01 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 8,100 acres (1966 determination), which may dry up channel at gaging station prior to normal seasonal cessation of flows.

COOPERATION.--Water-stage recorder inspected by employees of Water District 31.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,490 ft^3/s May 16, 1998, gage height, 7.49 ft; maximum gage height, 7.61 ft, May 16, 1984; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,160 ft^3/s May 31, gage height, 6.79 ft; no flow for 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	14	.00	.75	e3.5	1.3	6.0	e12	622	787	92	23	31
2	13	.00	.91	e3.5	e1.5	5.0	e14	697	484	91	22	30
3	11	.00	.32	e4.5	e1.5	6.5	e17	888	435	91	19	26
4	12	.00	.53	e7.0	e2.0	5.4	e19	791	810	85	19	18
5	22	.00	.00	e6.5	2.1	5.7	e15	529	746	79	21	16
6	24	.00	.00	e5.5	e2.0	5.5	e16	343	531	73	23	15
7	24	.00	.00	e4.0	e2.0	e4.5	17	255	583	64	23	21
8	21	.00	e5.0	3.5	e.20	e5.0	18	322	660	59	21	20
9	20	.00	e4.5	e3.5	.00	e5.5	25	459	487	59	18	19
10	11	.00	e4.0	e2.5	.00	e4.5	26	436	353	53	18	19
11	3.7	.00	e3.5	1.3	.00	4.3	27	308	260	48	24	19
12	.04	.00	e3.0	1.4	.00	4.4	19	251	208	43	27	18
13	.00	.00	e3.0	.94	.00	4.2	16	244	175	39	33	18
14	.00	.00	e3.5	1.4	.00	4.1	22	296	158	35	35	16
15	.00	.00	e3.5	1.5	.00	4.7	44	255	155	31	31	17
16	.00	.00	e4.0	1.2	.00	4.4	52	201	161	44	27	21
17	.00	.00	e3.5	.21	.00	2.4	45	201	160	42	24	21
18	.00	.00	e2.5	.00	.00	e3.0	49	175	167	26	22	21
19	.00	.00	e2.0	.03	.00	e3.5	71	166	185	25	20	20
20	.00	.00	e1.5	.66	.00	e3.0	94	225	159	34	19	20
21	.00	.00	e1.0	.91	.00	e2.5	109	325	132	30	19	20
22	.00	.00	e1.5	e1.0	e.50	e2.0	106	400	108	27	18	20
23	.00	.00	e2.0	e1.0	e1.0	e2.0	88	461	94	26	19	20
24	.00	.00	e2.0	e.50	e2.5	e2.0	99	519	81	27	18	20
25	.00	.00	e2.5	.04	e5.5	e2.5	131	581	155	28	17	19
26	.00	.00	e2.5	.38	e4.5	e2.0	177	675	144	32	18	18
27	.00	.00	e3.5	e.50	e3.5	e1.5	217	756	129	23	18	20
28	.00	.00	e5.0	e.50	5.5	e1.5	311	728	118	21	19	21
29	.00	.00	e5.0	e1.0	---	e2.0	482	750	117	20	19	23
30	.00	.00	e5.0	2.1	---	e1.5	501	1020	100	23	22	23
31	.00	---	e3.5	1.3	---	e1.0	---	1050	---	22	27	---
TOTAL	175.74	0.00	79.51	61.87	35.60	112.1	2839	14929	8842	1392	683	610
MEAN	5.67	.000	2.56	2.00	1.27	3.62	94.6	482	295	44.9	22.0	20.3
MAX	24	.00	5.0	7.0	5.5	6.5	501	1050	810	92	35	31
MIN	.00	.00	.00	.00	.00	1.0	12	166	81	20	17	15
AC-FT	349	.00	158	123	71	222	5630	29610	17540	2760	1350	1210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1999, BY WATER YEAR (WY)

MEAN	6.02	7.28	5.02	4.15	4.18	8.04	88.7	195	111	17.3	5.16	3.92
MAX	77.9	59.8	35.8	20.0	22.5	51.1	277	576	382	115	29.1	32.5
(WY)	1984	1984	1956	1928	1970	1956	1962	1993	1995	1983	1983	1971
MIN	.000	.000	.000	.000	.000	.000	3.14	.000	.000	.000	.000	.000
(WY)	1932	1932	1932	1932	1932	1932	1934	1934	1934	1934	1931	1931

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1925 - 1999	
ANNUAL TOTAL	31262.75		29759.82			
ANNUAL MEAN	85.7		81.5		37.8	
HIGHEST ANNUAL MEAN					91.7	1995
LOWEST ANNUAL MEAN					.88	1934
HIGHEST DAILY MEAN	1130	May 16	1050	May 31	1160	May 17 1984
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 13	.00	Jun 1 1926
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 13	.00	Jun 1 1926
ANNUAL RUNOFF (AC-FT)	62010		59030		27370	
10 PERCENT EXCEEDS	360		257		114	
50 PERCENT EXCEEDS	14		16		5.0	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

MUD LAKE-LOST RIVER BASINS

13115000 MUD LAKE NEAR TERRETON, ID

LOCATION.--Lat 43°53'25", long 112°21'28", in NE¼SE¼ sec.32, T.7 N., R.35 E., Jefferson County, Hydrologic Unit 17040215, at mouth of Camas Creek, 4.4 mi northeast of First Owsley pumphouse, and 5.5 mi northeast of Terreton.

DRAINAGE AREA.--1,130 mi^2, approximately, not including Medicine Lodge Creek.

PERIOD OF RECORD.--April 1921 to current year.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,774.99 ft above sea level. Prior to Oct. 31, 1931, nonrecording gages at or near pumphouse (now used as a supplementary gage) at same datum. Oct. 31, 1931 to Sept. 30, 1954, water-stage recorder at site 2.7 mi southwest and 2 mi north of First Owsley pumphouse at same datum; Oct. 1, 1954 to Sept. 8, 1978, water-stage recorder at site 670 ft north of mouth of Camas Creek at same datum.

REMARKS.--Mud Lake is a perched body of water confined by earth dikes and fed by ground water and surface tributaries augmented by well flows and surface inflow from North Lake. Water for irrigation is diverted from the lake by pumping. Other irrigation diversions are made by various means from adjacent lakes and wells and from Camas Creek above the lake. Area of Mud Lake varies from time to time by changes in dikes. Figures given herein represent contents above gage height -4.0 ft. Capacity table prepared from surveys made by U.S. Geological Survey and adjusted for changes in dikes. Stage at recorder during frequent high winds does not usually represent the mean for the lake. For complete description of Mud Lake region, see WSP 818.

COOPERATION.--Water-stage recorder inspected by employees of Water District 31.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 61,660 acre-ft May 5, 1923, gage height, 9.20 ft, at site then in use; practically no contents Oct. 1 to Nov. 15, 1937, due to bypassing Camas Creek (see Remarks).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 47,900 acre-ft June 17, 18, gage height, 9.39 ft; minimum contents, 10,200 acre-ft Oct. 30, gage height, 2.62 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

2.0	8,150	6.0	25,700
3.0	11,600	8.0	37,900
4.0	15,800	10.0	54,400

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	15900	10400	11400	---	14800	17000	19100	25800	37300	36400	20500	17600
2	15600	10400	11400	---	14900	17100	19200	26900	38300	35700	20700	17500
3	15200	10400	11400	---	15000	17200	19300	27400	39600	34400	20700	17200
4	15000	10400	11600	---	15100	17300	19400	28100	40900	33300	20700	17100
5	14700	10500	11700	12800	15100	17300	19500	28900	42000	32400	20900	16900
6	14300	10600	11800	12900	15200	17400	19600	29700	43500	31500	21000	16700
7	13900	10700	11800	12900	15300	17400	19800	30500	44700	30700	21100	16500
8	13600	10700	11800	13000	15400	17500	19900	31100	45200	29900	21200	16400
9	13300	10800	11800	13100	15400	17700	20000	31500	45400	29200	21500	16200
10	12900	10800	11900	13100	15500	17800	20000	32100	45800	28500	21500	16000
11	12700	10800	---	13200	15600	17800	20000	32600	46200	28000	21400	15800
12	12300	10800	---	13300	15600	17900	20000	32700	46600	26900	21200	15600
13	12100	10800	---	13400	15700	18000	20000	33100	47000	25800	21000	15200
14	11800	10800	---	13400	15800	18000	20100	33500	47100	24900	20900	14900
15	11600	10800	---	13500	15800	18100	20200	33800	47600	23800	20800	14700
16	11400	10800	---	13500	15900	18200	20300	34100	47500	23100	20700	14200
17	11200	10900	---	13600	16100	18200	20400	34300	47400	22800	20600	13900
18	11100	10900	---	13700	16100	18300	20400	34600	47100	22600	20600	13600
19	11000	11000	---	13800	16200	18400	20500	34800	46800	22400	20500	13400
20	10900	11000	---	13800	16300	18500	20700	34500	46400	22100	20300	13200
21	10800	11000	---	13900	16400	18600	21000	34300	46000	21700	20100	12900
22	10700	11100	---	14000	16500	18800	21200	34300	45200	21500	20000	12600
23	10700	11100	---	14100	16700	18800	21500	34300	44200	21200	19700	12400
24	10700	11100	---	14200	16700	18900	21900	34300	43300	21000	19400	12200
25	10600	11100	---	14300	16800	19000	22200	34300	42400	20900	19000	11800
26	10600	11100	---	14400	16800	19000	22400	34100	41300	20800	18700	11500
27	10500	11200	---	14400	16900	19000	22700	34100	40500	20700	18300	11300
28	10400	11200	---	14500	16900	19000	23600	34300	39600	20600	18000	11000
29	10300	11300	---	14600	---	19000	24300	34600	38500	20500	17800	10700
30	10300	11300	---	14700	---	19100	25200	35600	37300	20400	17700	10300
31	10400	---	e12600	14700	---	19100	---	36400	---	20400	17600	---
MAX	15900	11300	---	---	16900	19100	25200	36400	47600	36400	21500	17600
MIN	10300	10400	---	---	14800	17000	19100	25800	37300	20400	17600	10300
†	2.66	2.91	---	3.76	4.25	4.71	5.91	7.77	7.91	4.97	4.40	2.64
‡	-5900	900	1300	2100	2200	2200	6100	11200	900	-16900	-2800	-7300

CAL YR 1998 ‡ 1600
WTR YR 1998 ‡ -6000

† Gage height, in feet, at end of month.
‡ Change in contents, in acre-feet.
e Estimated

MUD LAKE-LOST RIVER BASINS

13116500 MEDICINE LODGE CREEK NEAR SMALL, ID

LOCATION.--Lat 44°15'22", long 112°24'12", in SW¼NE¼ sec.25, T.11 N., R.34 E., Clark County, Hydrologic Unit 17040214, on right bank 400 ft west of H.W. Small's ranch house, 0.4 mi downstream from Indian Creek, 4 mi northwest of Small, and 11 mi northwest of Dubois.

DRAINAGE AREA.--270 mi^2, approximately.

PERIOD OF RECORD.--April 1921 to December 1923, October 1941 to January 1949, May 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,440 ft above sea level, from topographic map. Nonrecording gage, Apr. 19, 1921 to Dec. 19, 1923 at a site 100 ft upstream at different datum, 1941-49, water-stage recorder at site 200 ft upstream at different datum.

REMARKS.--Records fair. Many small diversions above station for irrigation. Water also diverted by ranches above station during winter months.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 481 ft^3/s June 19, 1995, gage height, 9.09 ft; minimum observed, 8.0 ft^3/s Dec. 14, 1949, from discharge measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 376 ft^3/s June 3, gage height, 8.34 ft; minimum daily, 50 ft^3/s Dec. 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	87	e85	e100	e55	e70	66	73	149	313	190	97	83
2	89	e95	e100	e55	e70	e65	75	153	318	185	97	81
3	95	e95	e100	e60	e70	66	73	146	356	177	98	78
4	96	e85	e90	e65	e70	e65	77	144	328	175	102	78
5	95	e90	e80	e70	e75	e65	75	138	316	169	106	77
6	94	e90	e75	e75	e70	e65	72	136	331	165	104	74
7	91	e95	e70	78	e70	67	77	139	343	160	100	74
8	89	e90	e65	77	e75	65	84	145	313	157	97	74
9	89	e80	e60	78	e75	65	88	148	289	154	92	73
10	89	e70	e55	78	e70	63	75	148	277	149	90	72
11	91	e70	e60	78	e65	63	73	146	270	146	91	72
12	91	e70	e60	78	e65	e63	78	143	266	156	94	71
13	89	e75	e60	78	e65	63	84	152	260	151	92	71
14	90	e80	e65	78	e70	64	84	151	266	152	86	69
15	93	e80	e65	79	e70	65	81	148	258	151	83	70
16	95	e85	e60	80	67	65	83	152	257	145	82	69
17	96	88	e60	e75	70	e65	90	150	281	142	81	69
18	94	88	e60	e80	e70	65	97	147	271	140	79	69
19	93	e80	e55	79	69	68	104	151	260	136	78	69
20	92	e75	e55	80	e70	72	107	159	254	137	82	69
21	90	e85	e50	80	72	73	103	176	250	133	81	69
22	91	e90	e55	80	70	73	97	189	245	129	81	69
23	e90	e85	e55	e75	e70	74	94	205	238	126	78	68
24	e90	e90	e55	e70	68	81	96	230	226	121	77	68
25	e90	e80	e60	e65	67	90	100	254	218	121	80	69
26	e90	e90	e60	e65	67	102	107	273	214	119	77	72
27	e90	e95	e65	e65	65	93	111	292	210	116	76	75
28	e90	e100	e65	e65	65	78	121	315	204	113	80	75
29	e90	e100	e60	e70	---	79	127	342	198	110	81	74
30	e90	e100	e60	e70	---	81	118	349	195	102	79	74
31	e85	---	e55	e70	---	78	---	322	---	98	87	---
TOTAL	2824	2581	2035	2251	1940	2207	2724	5892	8025	4425	2708	2175
MEAN	91.1	86.0	65.6	72.6	69.3	71.2	90.8	190	268	143	87.4	72.5
MAX	96	100	100	80	75	102	127	349	356	190	106	83
MIN	85	70	50	55	65	63	72	136	195	98	76	68
AC-FT	5600	5120	4040	4460	3850	4380	5400	11690	15920	8780	5370	4310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1999, BY WATER YEAR (WY)

MEAN	52.7	50.9	42.6	41.0	46.0	54.2	58.6	88.2	114	84.1	64.7	54.0
MAX	92.5	86.0	74.1	72.6	69.3	71.2	90.8	215	383	237	124	98.7
(WY)	1996	1999	1996	1999	1999	1999	1999	1998	1995	1995	1995	1995
MIN	30.1	27.2	17.3	18.5	33.4	39.4	37.6	45.2	39.3	32.0	29.4	28.7
(WY)	1993	1993	1993	1949	1990	1991	1991	1992	1992	1994	1994	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1921 - 1999	
ANNUAL TOTAL	40255		39787			
ANNUAL MEAN	110		109		63.3	
HIGHEST ANNUAL MEAN					109	1999
LOWEST ANNUAL MEAN					41.3	1992
HIGHEST DAILY MEAN	349	Jun 3	356	Jun 3	470	Jun 15 1995
LOWEST DAILY MEAN	44	Jan 24	50	Dec 21	10	Mar 15 1944
ANNUAL SEVEN-DAY MINIMUM	46	Jan 22	55	Dec 18	13	Jan 5 1949
ANNUAL RUNOFF (AC-FT)	79850		78920		45870	
10 PERCENT EXCEEDS	233		204		94	
50 PERCENT EXCEEDS	88		84		54	
90 PERCENT EXCEEDS	48		65		34	

e Estimated

MUD LAKE-LOST RIVER BASINS

13118700 LITTLE LOST RIVER BELOW WET CREEK, NEAR HOWE, ID

LOCATION.--Lat 44°08'19", long 113°14'39", in NW¼SE¼ sec.4, T.9 N., R.27 E., Butte County, Hydrologic Unit 17040217, U.S. Bureau of Land Management lands, on right bank at Clyde School, 0.6 mi downstream from Wet Creek, and 27 mi northwest of Howe.

DRAINAGE AREA.--440 mi^2, approximately.

PERIOD OF RECORD.--January 1958 to current year.

REVISIONS.--WDR-ID-1: 1991 (m).

GAGE.--Water-stage recorder. Elevation of gage is 5,880 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions above station for irrigation of about 3,800 acres, of which about 2,000 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 509 ft^3/s June 16, 1975, gage height, 3.19 ft, but may have been more during period of doubtful gage-height record in 1958; maximum gage height recorded, 5.99 ft, Feb. 8, 1979, backwater from ice; minimum recorded, 2.8 ft^3/s Dec. 13, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 335 ft^3/s May 30, 31, gage height, 3.12 ft; minimum daily, 24 ft^3/s Dec. 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	69	67	75	30	e28	36	41	113	318	163	74	66
2	71	73	74	30	33	36	41	117	318	159	74	67
3	72	72	77	e28	31	36	42	123	325	157	77	68
4	73	68	69	e28	32	36	40	113	317	153	82	69
5	73	72	61	28	e30	e32	40	104	308	146	80	65
6	72	73	54	29	31	e34	39	100	304	140	80	63
7	72	72	42	30	31	e36	41	107	297	135	74	63
8	71	71	42	30	32	36	43	121	279	137	71	63
9	71	62	37	31	33	36	40	127	268	138	68	62
10	72	56	e30	31	29	35	41	122	254	133	68	62
11	73	54	e32	31	e30	35	48	116	241	129	70	63
12	72	55	33	31	e32	36	47	114	235	127	75	62
13	71	57	34	32	e34	36	50	118	238	124	76	62
14	71	61	35	32	35	36	49	119	254	124	73	61
15	72	64	36	31	35	36	49	115	260	122	67	61
16	73	65	e34	e30	35	36	49	114	271	113	67	60
17	72	67	e32	e30	35	36	50	109	283	109	66	59
18	72	67	e32	32	35	37	52	106	276	104	65	60
19	72	61	e30	33	36	38	58	114	267	101	66	58
20	71	57	e26	32	e36	39	63	131	256	98	74	59
21	71	68	e24	33	36	40	73	155	220	95	82	59
22	71	72	e26	33	38	43	69	188	235	93	74	58
23	72	67	e28	31	36	43	69	220	219	88	68	57
24	72	73	e30	e28	37	44	66	260	207	86	67	56
25	71	63	e32	e26	37	47	70	290	198	85	67	56
26	70	68	e34	e26	37	51	80	307	193	82	64	54
27	70	74	e36	e26	37	46	89	320	187	78	63	62
28	71	77	e38	e26	37	43	94	322	181	79	64	e62
29	71	74	e34	e28	---	45	99	327	173	82	68	e60
30	68	74	e32	e28	---	44	94	331	169	78	64	e60
31	65	---	30	e28	---	41	---	331	---	75	65	---
TOTAL	2207	2004	1229	922	948	1205	1726	5354	7551	3533	2193	1837
MEAN	71.2	66.8	39.6	29.7	33.9	38.9	57.5	173	252	114	70.7	61.2
MAX	73	77	77	33	38	51	99	331	325	163	82	69
MIN	65	54	24	26	28	32	39	100	169	75	63	54
AC-FT	4380	3970	2440	1830	1880	2390	3420	10620	14980	7010	4350	3640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1999, BY WATER YEAR (WY)

MEAN	57.2	39.4	21.9	22.1	24.9	35.8	62.8	147	198	99.5	61.7	57.8
MAX	101	70.0	47.2	52.7	45.3	58.2	162	261	365	208	141	128
(WY)	1985	1985	1985	1985	1985	1986	1969	1969	1995	1975	1984	1984
MIN	29.5	16.6	8.00	3.50	9.00	14.1	24.2	53.3	51.8	33.3	26.0	22.2
(WY)	1995	1962	1964	1964	1964	1993	1963	1961	1992	1994	1961	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1958 - 1999	
ANNUAL TOTAL	31856		30709			
ANNUAL MEAN	87.3		84.1		68.8	
HIGHEST ANNUAL MEAN					115	1984
LOWEST ANNUAL MEAN					32.2	1961
HIGHEST DAILY MEAN	278	Jun 3	331	May 30	486	Jun 16 1975
LOWEST DAILY MEAN	22	Jan 5	24	Dec 21	3.5	Jan 1 1964
ANNUAL SEVEN-DAY MINIMUM	23	Jan 1	27	Jan 24	3.5	Jan 1 1964
ANNUAL RUNOFF (AC-FT)	63190		60910		49820	
10 PERCENT EXCEEDS	206		187		153	
50 PERCENT EXCEEDS	70		66		48	
90 PERCENT EXCEEDS	27		31		19	

e Estimated

13120000 NORTH FORK BIG LOST RIVER AT WILD HORSE, NEAR CHILLY, ID

LOCATION.--Lat 43°55'59", long 114°06'47", in NE¼SE¼ sec.17, T.7 N., R.20 E., Custer County, Hydrologic Unit 17040218, in Challis National Forest, on right bank 0.2 mi upstream from East Fork, 2 mi downstream from Wild Horse damsite, and 16 mi southwest of Chilly.

DRAINAGE AREA.--114 mi^2. Mean elevation, 8,540 ft.

PERIOD OF RECORD.--March 1944 to current year. Prior to October 1967, published as "Big Lost River at Wild Horse, near Chilly".

GAGE.--Water-stage recorder. Elevation of gage is 6,820 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. There are several small ranch diversions upstream for local irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,560 ft^3/s June 5, 1997, gage height, 5.65 ft; minimum, 4.9 ft^3/s Feb. 17, 1988, gage height, 0.92 ft, result of freezeup.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 26	0400	842	4.50	June 18	0200	*1,120	*4.99
May 29	0345	852	4.52				

Minimum, 11 ft^3/s Feb. 20, gage height, 1.01 ft, result of freezeup; minimum daily, 18 ft^3/s Dec. 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	48	37	36	29	e24	25	32	114	470	368	101	56
2	53	38	35	27	e22	22	31	129	524	356	97	55
3	52	37	37	e25	e24	24	32	118	539	313	100	55
4	50	37	34	27	e24	22	31	108	499	277	105	56
5	49	37	22	30	e22	21	31	98	474	257	109	53
6	48	37	23	29	27	22	30	98	467	257	101	50
7	46	34	23	29	26	26	31	119	423	301	93	48
8	46	36	24	28	25	23	33	138	379	293	88	48
9	45	33	25	28	27	25	32	139	335	264	84	46
10	45	34	23	28	e22	23	31	126	305	257	81	45
11	44	35	25	27	22	23	30	115	307	257	80	45
12	44	33	27	27	26	23	31	115	338	253	80	44
13	43	36	29	26	27	24	34	114	421	255	80	43
14	43	36	30	26	28	24	38	109	599	247	76	43
15	43	36	28	27	26	24	39	106	735	224	72	42
16	43	36	31	27	26	23	42	104	853	195	69	41
17	42	36	30	25	27	23	49	99	1030	185	66	41
18	43	36	27	28	24	23	61	104	1010	173	64	40
19	42	31	e18	27	26	25	74	129	946	164	65	40
20	41	31	e20	27	23	27	87	183	868	161	68	40
21	40	36	22	27	27	29	88	250	779	157	76	39
22	41	37	23	26	24	30	83	319	645	150	71	39
23	41	34	23	e24	26	31	77	400	570	139	66	38
24	41	37	23	e22	26	33	72	502	536	136	66	38
25	40	35	23	e20	25	35	76	655	524	126	65	37
26	40	34	24	e22	23	39	91	781	460	117	62	38
27	40	36	25	e22	23	37	99	740	404	113	60	39
28	40	37	27	e22	26	34	98	685	365	118	61	38
29	39	36	28	e24	---	35	95	790	353	131	62	38
30	37	36	29	e24	---	34	94	701	359	114	59	38
31	35	---	29	e24	---	32	---	545	---	107	57	---
TOTAL	1344	1064	823	804	698	841	1672	8733	16517	6465	2384	1313
MEAN	43.4	35.5	26.5	25.9	24.9	27.1	55.7	282	551	209	76.9	43.8
MAX	53	38	37	30	28	39	99	790	1030	368	109	56
MIN	35	31	18	20	22	21	30	98	305	107	57	37
AC-FT	2670	2110	1630	1590	1380	1670	3320	17320	32760	12820	4730	2600
CFSM	.38	.31	.23	.23	.22	.24	.49	2.47	4.83	1.83	.67	.38
IN.	.44	.35	.27	.26	.23	.27	.55	2.85	5.39	2.11	.78	.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1999, BY WATER YEAR (WY)

MEAN	38.9	31.8	26.0	24.4	22.0	22.8	62.6	281	423	205	73.4	47.8
MAX	63.5	117	88.2	79.6	70.9	62.1	153	584	848	602	178	122
(WY)	1984	1984	1984	1984	1984	1984	1969	1958	1965	1995	1965	1985
MIN	21.5	18.6	14.1	14.1	14.7	14.3	17.2	66.2	118	52.5	27.6	21.4
(WY)	1989	1993	1993	1991	1961	1977	1955	1977	1992	1994	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1944 - 1999	
ANNUAL TOTAL	44378		42658			
ANNUAL MEAN	122		117		105	
HIGHEST ANNUAL MEAN					184	1965
LOWEST ANNUAL MEAN					50.1	1992
HIGHEST DAILY MEAN	699	Jun 26	1030	Jun 17	1410	Jun 5 1997
LOWEST DAILY MEAN	18	Dec 19	18	Dec 19	9.5	Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	20	Mar 3	22	Dec 19	11	Dec 21 1990
ANNUAL RUNOFF (AC-FT)	88020		84610		76210	
ANNUAL RUNOFF (CFSM)	1.07		1.03		.92	
ANNUAL RUNOFF (INCHES)	14.48		13.92		12.54	
10 PERCENT EXCEEDS	367		354		311	
50 PERCENT EXCEEDS	41		40		38	
90 PERCENT EXCEEDS	22		24		19	

e Estimated

MUD LAKE-LOST RIVER BASINS

13120500 BIG LOST RIVER AT HOWELL RANCH, NEAR CHILLY, ID

LOCATION.--Lat 43°59'54", long 114°01'12", in NE¼NW¼ sec.30, T.8 N., R.21 E., Custer County, Hydrologic Unit 17040218, on left bank at Howell Ranch, 2.1 mi downstream from Burnt Creek, 7.7 mi downstream from East Fork, 9 mi southwest of Chilly, and 21 mi northwest of Mackay.

DRAINAGE AREA.--450 mi^2. Mean elevation, 8,590 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1904 to November 1914, May 1920 to current year (no winter records 1904, 1906-14, 1920-48).

REVISED RECORDS.--WSP 1287: Drainage area. WSP 1317: 1905.

GAGE.--Water-stage recorder. Datum of gage is 6,621.95 ft above sea level. See WSP 1737 for history of changes prior to June 11, 1920.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. No regulation. Diversions above station for irrigation of about 3,000 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft^3/s May 25, 1967, gage height, 6.02 ft; minimum observed, 19 ft^3/s Dec. 12, 1939, from discharge measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 29	0830	2,430	4.18	June 3	0200	1,750	3.64
				June 17	1100	*3,220	*4.71

Minimum daily, 50 ft^3/s Jan. 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	159	132	120	e120	e70	e65	97	339	1420	1160	343	178
2	176	137	116	e110	e65	e60	103	363	1580	1130	323	175
3	173	136	129	e100	e70	e65	100	336	1610	969	335	170
4	170	129	e110	e120	e70	e60	98	313	1440	879	358	173
5	164	136	e85	e130	e65	e55	96	283	1370	818	360	162
6	162	134	e90	e120	e70	e60	97	284	1420	815	351	153
7	159	125	e90	e120	e65	e65	97	324	1280	975	317	146
8	157	130	e95	e110	e60	e60	104	360	1140	961	292	144
9	154	122	e100	e110	e65	e65	103	360	1010	827	273	141
10	154	131	e90	e110	e60	e60	94	337	908	797	260	138
11	153	143	e95	e100	e55	e60	92	318	903	795	253	137
12	152	132	e100	e100	e60	e60	99	321	1010	779	251	135
13	151	147	e100	e90	e65	e65	109	331	1310	798	258	134
14	149	132	e110	e90	e70	e65	117	318	1810	765	245	131
15	149	130	e100	e95	e65	e65	116	302	2180	693	227	128
16	151	125	e110	e95	e65	e60	121	306	2510	598	213	126
17	147	125	e100	e85	e70	e60	141	299	2990	575	203	123
18	152	124	e90	e90	e65	e60	168	309	2880	538	196	123
19	146	103	e70	e85	e70	e65	202	365	2730	519	199	123
20	144	117	e75	e85	e65	e70	240	460	2550	518	212	123
21	142	128	e80	e85	e70	e75	236	601	2420	506	233	121
22	143	127	e85	e75	e65	e80	213	757	2120	479	237	119
23	149	118	e85	e70	e70	e90	199	973	1880	449	215	118
24	151	134	e85	e60	e70	e100	193	1270	1790	439	209	118
25	148	113	e85	e50	e65	e110	203	1660	1760	413	206	114
26	144	111	e90	e55	e65	129	250	1910	1490	387	192	116
27	142	121	e95	e55	e65	118	268	1950	1290	377	183	119
28	142	121	e100	e55	e70	104	274	1950	1150	391	187	119
29	138	118	e110	e60	---	105	266	2350	1110	482	195	120
30	132	117	e120	e65	---	105	253	2180	1130	406	182	119
31	125	---	e120	e70	---	96	---	1710	---	371	187	---
TOTAL	4678	3798	3030	2765	1850	2357	4749	23939	50191	20609	7695	4046
MEAN	151	127	97.7	89.2	66.1	76.0	158	772	1673	665	248	135
MAX	176	147	129	130	70	129	274	2350	2990	1160	360	178
MIN	125	103	70	50	55	55	92	283	903	371	182	114
AC-FT	9280	7530	6010	5480	3670	4680	9420	47480	99550	40880	15260	8030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1999, BY WATER YEAR (WY)

MEAN	127	107	88.0	83.3	78.4	81.8	185	772	1224	605	222	146
MAX	235	373	278	245	218	194	485	1880	2389	1754	631	378
(WY)	1909	1984	1984	1984	1984	1984	1943	1969	1911	1995	1907	1985
MIN	58.0	57.5	40.8	39.2	44.5	47.1	41.2	200	221	93.5	54.2	47.7
(WY)	1934	1995	1993	1991	1991	1961	1912	1977	1934	1934	1934	1934

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1904 - 1999	
ANNUAL TOTAL	135832		129707			
ANNUAL MEAN	372		355		323	
HIGHEST ANNUAL MEAN					538	1965
LOWEST ANNUAL MEAN					154	1992
HIGHEST DAILY MEAN	2180	Jun 26	2990	Jun 17	3820	May 25 1967
LOWEST DAILY MEAN	55	Mar 4	50	Jan 25	27	Apr 1 1912
ANNUAL SEVEN-DAY MINIMUM	61	Mar 2	57	Jan 24	32	Dec 21 1990
ANNUAL RUNOFF (AC-FT)	269400		257300		233700	
10 PERCENT EXCEEDS	1030		1050		989	
50 PERCENT EXCEEDS	147		135		142	
90 PERCENT EXCEEDS	70		65		68	

e Estimated

13120500 BIG LOST RIVER AT HOWELL RANCH NEAR CHILLY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to September 1984, April 1993 to September 1996, May to September 1999 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1993, June 18 to September 15, 1996, May to September 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 17.3 °C Aug. 10, 1996.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 17.2 °C Aug. 26.

WATER-QUALITY DATA, MAY 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)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
MAY											
27...	1452	1860	106	8.2	21.5	6.5	55	11.1	115	46	K22
JUN											
24...	1240	1770	97	8.3	22.5	7.0	9.5	10.2	108	74	K16
AUG											
06...	1120	359	148	8.3	19.3	10.5	--	9.5	109	110	86
SEP											
22...	1155	120	194	8.3	19.9	8.0	.50	10.2	109	K3	K9
OCT											
07...	1340	123	195	8.3	13.3	6.3	.50	9.8	101	K2	<1

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
22...	89	26	5.7	3.6	8	.79	100	0

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
22...	86	12	1.6	.19	10	112	.15	36.4

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 TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAY								
27...	<.010	.086	.030	.90	.250	.018	132	663
JUN								
24...	<.010	.073	<.020	.17	.106	.013	102	487
AUG								
06...	<.010	<.050	<.020	.16	<.050	.017	5	4.8
SEP								
22...	<.010	<.050	<.020	<.10	<.050	<.010	1	.32
OCT								
07...	<.010	<.050	<.020	E.08	<.050	<.010	1	.33

E Positive detection but below stated detection limits.
K Results based on counts outside ideal colony range.

13120500 BIG LOST RIVER AT HOWELL RANCH NEAR CHILLY, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	---	---	---
2	---	---	---	---	---	---
3	---	---	---	---	---	---
4	---	---	---	---	---	---
5	---	---	---	---	---	---
6	---	---	---	---	---	
7	---	---	---	---	---	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---
11	---	---	---	---	---	---
12	---	---	---	---	---	---
13	---	---	---	---	---	---
14	---	---	---	---	---	---
15	---	---	---	---	---	---
16	---	---	---	---	---	---
17	---	---	---	---	---	---
18	---	---	---	---	---	---
19	---	---	---	---	---	---
20	---	---	---	---	---	---
21	---	---	---	---	---	---
22	---	---	---	---	---	---
23	---	---	---	---	---	---
24	---	---	---	---	---	---
25	---	---	---	---	---	---
26	---	---	---	---	---	---
27	---	---	---	---	---	---
28	---	---	---	10.3	4.0	7.1
29	---	---	---	7.6	4.9	6.0
30	---	---	---	5.7	4.1	5.0
31	---	---	---	8.3	3.3	5.7
MONTH	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.0	4.3	6.9	13.3	6.2	9.6	14.0	9.4	11.9	10.6	7.4	9.0
2	8.5	5.2	6.3	12.0	5.8	9.0	16.1	10.0	13.2	11.7	6.3	8.8
3	8.9	4.3	6.4	12.8	6.8	9.7	15.1	10.8	13.0	9.9	6.9	8.2
4	9.6	3.5	6.6	12.7	7.6	10.0	14.5	10.8	12.7	12.2	5.1	8.6
5	9.4	5.4	7.6	13.1	5.8	9.4	15.1	10.6	12.8	13.1	6.8	10.2
6	8.2	4.3	6.2	15.0	6.8	10.8	14.8	10.5	12.9	13.3	7.9	10.7
7	8.8	3.5	6.0	14.5	8.9	11.6	15.1	10.6	13.0	12.0	5.8	9.3
8	8.9	4.8	6.9	13.7	6.3	9.9	16.1	9.1	12.6	12.7	6.0	9.6
9	8.3	3.0	5.8	14.5	7.2	10.9	16.1	9.1	12.8	12.0	6.8	9.9
10	10.8	3.8	7.3	15.0	7.9	11.3	13.9	9.1	11.4	11.6	7.7	9.8
11	11.1	4.9	8.0	15.5	8.0	11.6	14.5	9.2	11.7	11.9	5.7	9.1
12	11.3	5.5	8.6	16.1	8.5	12.1	13.4	9.4	11.6	12.0	5.5	9.1
13	10.3	5.5	8.1	16.2	8.8	12.4	14.2	8.8	11.5	12.7	6.2	9.7
14	11.7	5.5	8.4	13.9	8.9	11.4	14.2	8.0	11.3	13.1	6.8	10.2
15	10.3	5.5	7.9	14.2	7.2	10.7	15.1	8.8	12.0	13.3	6.9	10.4
16	10.5	5.4	7.8	14.7	7.2	11.1	15.3	8.0	11.8	12.8	6.9	10.3
17	10.6	5.5	7.9	15.0	8.0	11.6	15.9	8.8	12.5	11.1	7.1	9.4
18	12.2	5.1	8.3	15.1	8.0	11.7	14.5	9.1	12.3	11.4	6.6	9.2
19	12.0	5.7	8.5	14.4	8.8	11.8	16.6	11.6	14.1	12.5	7.1	10.0
20	12.8	5.2	8.7	15.8	9.2	12.4	15.3	10.3	13.1	12.3	6.2	9.5
21	10.3	6.2	8.3	15.8	8.8	12.3	15.6	11.6	13.7	12.8	6.8	10.1
22	12.0	5.2	8.4	15.8	8.5	12.2	16.9	9.7	13.2	12.5	7.1	10.2
23	13.0	5.4	8.9	16.2	8.6	12.5	15.6	10.8	13.3	12.3	7.1	9.9
24	13.0	6.2	9.3	15.1	9.1	12.3	17.0	11.7	14.3	12.8	7.9	10.3
25	11.7	6.5	9.0	15.8	8.3	12.0	16.9	10.2	13.8	12.0	7.4	9.7
26	11.4	4.3	7.8	16.2	8.8	12.6	17.2	10.5	14.0	8.9	4.1	6.7
27	11.7	5.2	8.4	16.6	9.1	12.9	15.0	10.5	13.0	6.6	3.3	5.3
28	11.7	5.7	8.8	15.0	10.3	12.4	14.2	12.2	13.2	6.8	1.1	4.4
29	12.0	6.6	9.2	14.4	10.0	12.3	16.1	9.4	12.7	8.3	2.4	5.6
30	12.2	7.2	9.6	16.4	9.9	12.9	13.9	9.9	12.3	10.2	4.1	7.3
31	---	---	---	15.8	9.4	12.7	13.1	8.8	11.3	---	---	---
MONTH	13.0	3.0	7.9	16.6	5.8	11.5	17.2	8.0	12.7	13.3	1.1	9.0

MUD LAKE-LOST RIVER BASINS

13126000 MACKAY RESERVOIR NEAR MACKAY, ID

LOCATION.--Lat 43°57'05", long 113°40'28", in NW¼NE¼SW¼ sec.12, T.7 N., R.23 E., Custer County, Hydrologic Unit 17040218, on gate-control tower of Mackay Dam on Big Lost River, and 4 mi northwest of Mackay.

DRAINAGE AREA.--788 mi^2.

PERIOD OF RECORD.--January 1919 to current year.

REVISED RECORDS.--WDR ID-87-1: 1985-86 (M).

GAGE.--Water-stage recorder. Datum of gage is 6,000 ft, Utah Construction Co. datum, or 6,000.4 ft above sea level. Prior to Oct. 15, 1959, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by earth- and rock-fill dam, which was reconstructed in 1917-18; storage impounded by original dam not recorded. Crest of spillway was raised 5 ft in September 1956. Capacity is 44,370 acre-ft between gage heights 7.0 and 66.5 ft, crest of spillway. Dead storage reported to be about 125 acre-ft. Water is used for irrigation of about 33,000 acres in Big Lost River irrigation district. About 12,700 acres irrigated from Big Lost River and tributaries above reservoir by surface diversions, and about 10,200 acres irrigated by subirrigation. Considerable seepage around dam because of its porous foundation, but the greater part of this water returns to Big Lost River between reservoir and station below reservoir, near Mackay. Prior to Oct. 1, 1959, contents below 1,000 acre-ft may be in error at times, as readings at gage were too low because of fall in outlet channel. Figures given herein represent usable contents.

COOPERATION.--Capacity table furnished by Water District 34.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 46,070 acre-ft May 14, 1976, gage height, 67.73 ft; no available contents during periods in 1919-20, 1924, 1926, 1929, 1931-35, 1974; minimum gage height observed, 6.3 ft, Aug. 5, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 45,000 acre-ft June 22, gage height 66.98 ft; minimum contents, 13,600 acre-ft Sept. 29, gage height, 37.12 ft.

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	16200	19900	25400	30200	33400	35500	30000	30700	e41800	43100	30700	18600
2	16300	20000	25700	30300	33600	35500	29800	31000	e41100	43200	30000	18500
3	16300	20200	25900	30400	33600	35500	29600	31300	e40700	43200	29400	18300
4	16400	20300	26200	30500	33700	35400	29500	31600	e40100	43000	28900	18200
5	16400	20500	26400	30700	33800	35400	29300	31800	e39400	42900	28400	18100
6	16500	20600	26600	30800	33900	35400	29100	32100	e38600	42800	27900	17900
7	16600	20800	26700	30900	34000	35400	29000	32400	e38000	42700	27500	17700
8	16700	20900	26900	31000	34100	35400	29000	32700	e37200	42600	27100	17600
9	16900	21000	27100	31100	34300	35400	28900	33000	e36800	42500	26600	17400
10	17000	21100	27200	31200	34400	35400	28800	33200	e36600	42300	26100	17200
11	17100	21300	27400	31300	34400	35400	28700	33500	e36600	42100	25700	17000
12	17200	21400	27600	31500	34500	35400	28600	33700	e36600	41800	25300	16800
13	17300	21500	27700	31600	34600	35400	28600	33900	e36800	41800	24900	16600
14	17400	21600	27800	31700	34700	35300	28600	34100	e37500	41700	24500	16300
15	17600	21800	28000	31800	34800	35300	28600	34400	e38600	41600	24000	16000
16	17700	21900	28200	31900	34800	35300	28700	34600	e40000	41300	23600	15700
17	17800	22000	28300	32000	34900	35100	28700	34800	e41500	41000	23200	15500
18	17900	22200	28400	32100	35000	34900	28700	34900	e42800	40400	22800	15200
19	18000	22300	28600	32200	35100	34600	28800	35100	e44000	39800	22300	14900
20	18100	22600	28700	32300	35100	34300	28900	35200	e44700	39200	21900	14700
21	18200	22800	28800	32400	35200	34000	28900	35400	e45000	38600	21500	14400
22	18400	23100	29000	32500	35300	33600	29000	35600	e44800	38000	21100	14200
23	18600	23300	29100	32700	35400	33200	29100	36000	e44300	37200	20800	14000
24	18700	23600	29200	32700	35400	32800	29300	36700	e44300	36400	20500	13900
25	18900	23900	29300	32800	35500	32400	29400	e38100	e44100	35500	20200	13800
26	19000	24100	29500	32900	35500	32000	29600	e39000	e43600	34700	20000	13700
27	19200	24400	29600	33000	35500	31700	29700	e40400	e43200	33800	19700	13600
28	19300	24700	29700	33100	35500	31300	30000	e41500	e43000	33000	19500	13600
29	19400	24900	29800	33200	---	31000	30200	e42200	e43000	32400	19300	13600
30	19600	25200	30000	33300	---	30700	30400	e42700	43000	31800	19000	13600
31	19700	---	30100	33400	---	30300	---	e42500	---	31300	18800	---
MAX	19700	25200	30100	33400	35500	35500	30400	42700	45000	43200	30700	18600
MIN	16200	19900	25400	30200	33400	30300	28600	30700	36600	31300	18800	13600
†	44.76	50.46	55.09	57.90	59.66	55.27	55.32	65.09	65.46	56.09	43.71	37.16
‡	3500	5500	4900	3300	2100	-5200	100	12100	500	-11700	-12500	-5200

CAL YR 1998 MAX 44700 MIN 15800 ‡ 5700
WTR YR 1999 MAX 45000 MIN 13600 ‡ -2600

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.
e Estimated

MUD LAKE-LOST RIVER BASINS

13127000 BIG LOST RIVER BELOW MACKAY RESERVOIR, NEAR MACKAY, ID

LOCATION.--Lat 43°56'20", long 113°38'50", in SW¼ NE¼ SE¼ sec.18, T.7 N., R.24 E., Custer County, Hydrologic Unit 17040218, on left bank 1.4 mi downstream from head of Sharp ditch, 1.6 mi downstream from Mackay Reservoir, and 2.5 mi northwest of Mackay.

DRAINAGE AREA.--813 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1903 to August 1906, and May 1912 to March 1915 (published as "near Mackay"), January 1919 to current year.

REVISED RECORDS.--WSP 1347: 1904-6.

GAGE.--Water-stage recorder. Datum of gage is 5,946.39 ft above sea level. Nonrecording gage prior to May 12, 1912, and June 5, 1912 to Apr. 28, 1913, at sites within 1 mi upstream at different datums; May 12 to June 4, 1912, at site 1.5 mi upstream (above Sharp ditch) at different datum; Apr. 29, 1913 to Mar. 15, 1915, at site 1 mi downstream (below Streeter ditch) at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Mackay Reservoir (see sta 13126000). Sharp ditch is only diversion between station and reservoir; about 12,700 acres of land are irrigated by diversions from river and tributaries above reservoir by surface diversions, and 10,200 acres irrigated by subirrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,990 ft^3/s June 10, 1921, June 6, 1986; maximum gage height, 6.08 ft, June 6, 1986; minimum, 16 ft^3/s Oct. 27, 1967, gage height, 1.11 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,080 ft^3/s June 22, gage height, 4.97 ft; minimum, 81 ft^3/s Oct. 23, gage height, 1.63 ft.

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	222	175	118	137	140	187	373	120	1610	926	633	345
2	222	177	118	137	140	187	332	121	1600	926	629	331
3	219	177	120	137	140	187	300	121	1590	927	625	322
4	218	177	123	137	140	187	297	121	1580	926	619	322
5	218	177	124	137	141	187	297	121	1570	829	618	321
6	201	177	124	137	143	187	297	121	1550	769	587	318
7	186	178	125	137	143	187	273	121	1530	769	559	316
8	184	178	127	138	143	187	251	121	1330	767	554	314
9	184	178	127	138	145	187	251	121	1110	768	551	315
10	184	179	127	140	143	186	251	121	948	767	529	317
11	184	180	128	140	143	186	251	135	866	765	514	321
12	184	181	130	140	143	186	244	156	865	766	510	324
13	185	181	130	140	143	187	220	158	866	686	505	342
14	186	182	130	140	144	187	195	160	869	640	493	356
15	187	184	130	140	144	187	187	160	981	655	484	356
16	187	184	130	140	146	202	186	163	1190	653	481	354
17	187	184	130	140	146	244	184	175	1450	664	477	349
18	187	171	130	140	146	299	184	187	1640	785	473	345
19	187	156	130	140	146	336	182	187	1730	783	468	343
20	187	134	130	140	146	347	174	187	1890	775	466	337
21	181	115	130	140	146	351	174	220	2020	770	465	332
22	175	115	127	140	146	379	167	243	2060	767	463	320
23	171	115	127	140	146	410	143	242	1990	761	436	294
24	174	115	130	140	147	409	124	274	1640	755	395	275
25	174	115	133	140	148	407	121	300	1580	749	374	272
26	174	117	133	140	167	405	121	423	1570	742	373	270
27	174	118	135	140	187	402	121	573	1510	732	369	249
28	174	118	137	140	187	400	118	958	1250	728	366	233
29	174	118	137	140	---	396	118	1200	1070	692	364	227
30	174	118	137	140	---	391	118	1490	992	639	364	221
31	174	---	137	140	---	387	---	1640	---	638	353	---
TOTAL	5818	4674	3994	4315	4139	8567	6254	10440	42447	23519	15097	9341
MEAN	188	156	129	139	148	276	208	337	1415	759	487	311
MAX	222	184	137	140	187	410	373	1640	2060	927	633	356
MIN	171	115	118	137	140	186	118	120	865	638	353	221
AC-FT	11540	9270	7920	8560	8210	16990	12400	20710	84190	46650	29940	18530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1999, BY WATER YEAR (WY)

MEAN	170	107	112	123	130	148	161	485	962	682	417	230
MAX	487	660	476	292	304	544	516	1193	2011	1652	895	635
(WY)	1924	1984	1984	1984	1984	1969	1984	1958	1965	1995	1984	1965
MIN	59.5	45.1	57.6	74.0	82.2	94.2	93.2	116	203	127	113	99.8
(WY)	1951	1955	1995	1991	1938	1938	1989	1933	1934	1934	1934	1940

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1904 - 1999	
ANNUAL TOTAL	133693		138605			
ANNUAL MEAN	366		380		311	
HIGHEST ANNUAL MEAN					658	1984
LOWEST ANNUAL MEAN					128	1934
HIGHEST DAILY MEAN	1910	Jun 27	2060	Jun 22	2990	Jun 10 1921
LOWEST DAILY MEAN	76	Jan 17	115	Nov 21	22	Oct 18 1960
ANNUAL SEVEN-DAY MINIMUM	77	Jan 16	116	Nov 21	23	Oct 18 1960
ANNUAL RUNOFF (AC-FT)	265200		274900		225500	
10 PERCENT EXCEEDS	828		866		757	
50 PERCENT EXCEEDS	177		187		163	
90 PERCENT EXCEEDS	85		127		82	

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-1976, 1978-1982, 1985, 1989, 1992, 1995, April to September 1999 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 1 to September 20, 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 17.2 °C Aug. 25-26, 29.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	8.0	6.5	7.1
2	---	---	---	8.6	6.8	7.4
3	---	---	---	9.1	6.1	7.2
4	---	---	---	10.0	5.8	7.2
5	---	---	---	10.2	5.7	7.4
6	---	---	---	10.8	6.1	7.9
7	---	---	---	10.8	6.6	8.0
8	---	---	---	9.9	6.3	7.8
9	---	---	---	9.4	6.1	7.1
10	---	---	---	10.3	5.8	7.5
11	---	---	---	10.3	6.1	7.8
12	---	---	---	9.6	7.2	8.0
13	---	---	---	9.1	7.1	7.6
14	---	---	---	9.6	6.9	7.7
15	---	---	---	9.4	6.5	7.5
16	---	---	---	9.7	6.8	7.8
17	---	---	---	9.4	6.8	7.8
18	---	---	---	10.3	7.2	8.4
19	---	---	---	10.3	7.5	8.6
20	---	---	---	10.5	7.7	8.9
21	---	---	---	10.7	7.7	9.0
22	---	---	---	11.1	8.2	9.3
23	---	---	---	11.1	8.2	9.4
24	---	---	---	11.3	8.5	9.6
25	---	---	---	11.1	8.8	9.5
26	---	---	---	11.4	8.9	9.8
27	---	---	---	11.0	9.1	10.1
28	---	---	---	11.6	9.9	10.6
29	---	---	---	12.7	10.0	11.0
30	---	---	---	11.6	10.0	11.1
31	---	---	---	12.4	10.8	11.7
MONTH	---	---	---	12.7	5.7	8.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	11.0	10.5	10.7	14.2	12.8	13.5	15.6	15.0	15.2	15.6	14.5	14.9
2	10.8	9.6	10.2	14.1	13.1	13.6	15.8	15.0	15.4	15.6	13.8	14.5
3	10.5	10.0	10.3	14.1	13.0	13.4	15.8	15.0	15.4	15.2	13.8	14.2
4	12.2	10.3	11.2	14.5	12.8	13.6	16.3	15.0	15.4	15.2	13.3	14.1
5	11.9	11.0	11.5	13.8	12.7	13.3	16.3	15.0	15.5	15.0	13.3	13.8
6	11.9	10.7	11.0	14.1	12.8	13.2	16.0	15.0	15.4	15.2	13.3	14.0
7	11.4	10.5	10.8	14.5	12.7	13.6	16.0	14.5	15.2	15.0	13.1	13.8
8	11.7	10.8	11.3	14.7	13.4	14.0	16.6	15.0	15.7	14.7	12.8	13.4
9	11.3	10.5	10.9	14.2	13.3	13.6	16.7	15.0	15.7	14.2	12.7	13.3
10	11.1	10.2	10.7	14.8	13.3	13.9	16.7	14.8	15.6	14.2	12.8	13.3
11	11.1	10.2	10.6	14.5	13.3	13.8	16.1	14.8	15.3	14.4	12.8	13.4
12	11.9	10.0	10.7	14.5	13.3	13.8	16.6	14.8	15.4	14.5	12.5	13.2
13	11.9	9.9	10.6	14.4	13.3	13.8	16.3	15.2	15.5	14.2	12.4	13.0
14	11.9	10.5	11.1	13.9	13.3	13.6	16.4	15.0	15.6	14.2	12.5	13.1
15	11.6	10.5	10.9	14.5	13.1	13.7	16.6	15.0	15.6	14.2	12.5	13.1
16	12.7	10.8	11.6	14.8	13.3	13.8	16.4	14.7	15.3	14.2	12.7	13.2
17	12.4	11.1	11.7	14.8	13.3	14.0	16.6	14.7	15.4	14.2	13.0	13.4
18	12.2	11.3	11.7	15.0	13.6	14.3	16.6	14.7	15.4	14.2	12.8	13.4
19	12.2	11.4	11.8	15.3	13.8	14.4	16.6	15.2	15.8	14.5	13.1	13.7
20	12.7	11.7	12.2	14.8	14.1	14.5	16.7	15.3	15.8	14.5	12.5	13.3
21	13.4	12.2	12.8	15.5	14.1	14.6	16.7	15.0	15.6	---	---	---
22	13.4	12.7	13.1	15.5	14.2	14.7	17.1	15.2	15.8	---	---	---
23	13.3	12.4	12.8	15.5	14.4	14.8	17.1	15.0	15.8	---	---	---
24	14.1	11.9	12.6	16.0	14.4	15.0	16.6	15.0	15.7	---	---	---
25	15.0	11.9	13.8	15.6	14.7	15.2	17.2	14.8	15.8	---	---	---
26	13.9	12.7	13.4	16.1	14.8	15.2	17.2	14.8	15.7	---	---	---
27	14.1	12.7	13.3	16.0	14.8	15.3	16.9	15.3	15.8	---	---	---
28	13.3	12.5	12.9	16.0	14.8	15.2	17.1	15.5	16.0	---	---	---
29	14.1	12.7	13.3	16.1	14.8	15.3	17.2	15.3	16.0	---	---	---
30	14.5	12.8	13.6	16.1	14.7	15.3	16.4	15.2	15.6	---	---	---
31	---	---	---	16.0	15.0	15.4	16.6	14.8	15.5	---	---	---
MONTH	15.0	9.6	11.8	16.1	12.7	14.2	17.2	14.5	15.6	---	---	---

MUD LAKE-LOST RIVER BASINS

13132500 BIG LOST RIVER NEAR ARCO, ID

LOCATION.--Lat 43°35'00", long 113°16'10", in SW¼SE¼SW¼ sec.17, T.3 N., R.27 E., Arco South quadrangle, Butte County, Hydrologic Unit 17040218, on right bank 0.4 mi downstream from slough entering from left bank, and 4 mi southeast of Arco.

DRAINAGE AREA.--1,410 mi^2, approximately.

PERIOD OF RECORD.--August 1946 to September 1961, May 1966 to September 1980, March to September 1981, May 1982 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,240 ft above sea level, by barometer. Prior to Oct. 14, 1952, at site 800 ft upstream at datum 3.08 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Mackay Reservoir (see sta 13126000). Station is below all large diversions for irrigation in Big Lost River valley. About 57,500 acres of land irrigated by diversions from river and tributaries and by ground-water withdrawals above station. About 10,200 acres irrigated by subirrigation above Mackay Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft^3/s July 5, 1967, gage height, 7.68 ft; no flow for long periods many years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1965, reached a stage of 8.03 ft, from floodmarks, discharge, 2,500 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,040 ft^3/s June 24; minimum daily, 13 ft^3/s Aug. 15, 18.

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	74	130	128	e90	e100	122	318	119	747	396	16	26
2	69	127	126	e90	e100	122	305	128	799	317	15	27
3	77	127	127	e85	e110	125	285	123	854	283	15	21
4	94	128	130	e90	e110	e120	268	116	900	262	15	21
5	100	127	e120	e95	e110	e120	266	112	911	241	15	23
6	93	127	e110	e95	e110	e130	263	101	937	217	21	24
7	84	130	e95	e95	e110	e130	257	95	952	185	33	25
8	81	134	e95	e95	e110	128	245	95	934	157	34	22
9	81	130	e95	e100	e110	127	243	100	843	135	31	20
10	88	128	e95	105	e110	124	236	107	702	118	23	23
11	91	e130	e95	104	e100	125	231	107	519	106	17	23
12	92	134	e95	105	e100	125	224	103	401	96	14	22
13	91	135	e100	104	e100	125	212	100	363	81	14	22
14	91	138	105	105	e110	124	201	121	337	62	14	21
15	91	140	108	107	e110	125	189	125	291	42	13	22
16	97	140	109	108	e110	125	182	133	314	33	14	24
17	97	144	e100	e110	115	126	173	129	427	29	14	25
18	105	143	e95	113	e110	136	161	113	590	25	13	25
19	104	140	e85	111	e110	155	159	93	702	23	14	26
20	101	136	e75	113	e100	181	157	66	785	21	15	27
21	112	136	e70	112	e110	204	156	62	864	17	24	27
22	120	131	e75	e110	e110	227	153	60	970	15	31	29
23	125	126	e75	e110	e110	253	145	69	1030	14	35	29
24	126	130	e80	e100	113	288	129	71	1040	14	35	29
25	129	130	e85	e100	110	309	111	82	974	14	29	28
26	132	128	e90	e100	108	325	102	102	807	21	28	27
27	134	127	e95	e100	e110	337	95	121	790	26	24	29
28	134	131	e100	e100	120	332	107	144	829	21	23	34
29	129	133	e110	e95	---	328	114	284	671	19	24	40
30	129	128	e100	e90	---	325	114	429	512	18	20	41
31	129	---	e95	e95	---	320	---	633	---	17	23	---
TOTAL	3200	3968	3063	3132	3036	5843	5801	4243	21795	3025	656	782
MEAN	103	132	98.8	101	108	188	193	137	726	97.6	21.2	26.1
MAX	134	144	130	113	120	337	318	633	1040	396	35	41
MIN	69	126	70	85	100	120	95	60	291	14	13	20
AC-FT	6350	7870	6080	6210	6020	11590	11510	8420	43230	6000	1300	1550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1999, BY WATER YEAR (WY)

MEAN	82.8	89.3	76.1	61.7	64.3	86.8	100	138	265	149	51.5	73.9
MAX	371	759	614	347	314	390	653	841	1118	918	502	395
(WY)	1985	1984	1984	1984	1984	1984	1969	1984	1983	1967	1984	1984
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1961	1961	1989	1961	1961	1989	1961	1961	1960	1961	1960	1960

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1946 - 1999	
ANNUAL TOTAL	57322		58544			
ANNUAL MEAN	157		160		103	
HIGHEST ANNUAL MEAN					546	1984
LOWEST ANNUAL MEAN					.000	1989
HIGHEST DAILY MEAN	988	Jun 29	1040	Jun 24	1840	Jul 5 1967
LOWEST DAILY MEAN	19	Jul 28	13	Aug 15	.00	May 14 1960
ANNUAL SEVEN-DAY MINIMUM	25	Aug 16	14	Aug 12	.00	May 14 1960
ANNUAL RUNOFF (AC-FT)	113700		116100		74360	
10 PERCENT EXCEEDS	424		322		271	
50 PERCENT EXCEEDS	88		110		34	
90 PERCENT EXCEEDS	33		23		.00	

e Estimated

MUD LAKE-LOST RIVER BASINS

13132513 INEEL DIVERSION AT HEAD NEAR ARCO, ID

LOCATION.--Lat 43°30'50", long 113°05'00" in NE¼NW¼SE¼ sec.11, T.2 N., R.28 E., Butte County, Hydrologic Unit 17040218, on left bank, 0.05 mi south of head of INEEL diversion, 0.4 mi north of intersection of gravel road from highway 20-26 with road on top of dike, and 13.2 mi southeast of Arco.

PERIOD OF RECORD.--1965-68 (discharge measurements only); July 1984 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,000.00 ft above sea level (levels by USGS).

REMARKS.--Records good. Station equipment includes satellite telemetry. Flow is regulated by Mackay Reservoir (see sta 13126000) and is diverted from the Big Lost River for purposes of flood control at the Idaho National Engineering & Environmental Laboratory facilities.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,290 ft³/s June 9, 1986; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 609 ft³/s June 24; 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	.00	.00	.00	.00	.00	.00	.00	.00	360	72	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	408	16	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	458	1.1	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	480	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	502	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	534	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	553	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	521	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	461	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	353	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	184	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	83	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	51	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	30	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.96	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	23	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	119	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	259	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	356	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	416	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	463	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	553	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	601	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	609	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	549	.00	.00	.00
26	.00	.00	.00	.00	.00	e.00	.00	.00	481	.00	.00	.00
27	.00	.00	.00	.00	.00	e.00	.00	.00	482	.00	.00	.00
28	.00	.00	.00	.00	.00	e.00	.00	.00	441	.00	.00	.00
29	.00	.00	.00	.00	---	e.00	.00	1.3	307	.00	.00	.00
30	.00	.00	.00	.00	---	e.00	.00	78	178	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	252	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	331.30	10815.96	89.10	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	10.7	361	2.87	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	252	609	72	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.96	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	657	21450	177	.00	.00

CAL YR 1998 TOTAL 11698.37 MEAN 32.1 MAX 501 MIN .00 AC-FT 23200
WTR YR 1999 TOTAL 11236.36 MEAN 30.8 MAX 609 MIN .00 AC-FT 22290

e Estimated

MUD LAKE-LOST RIVER BASINS

13132515 INEEL DIVERSION AT OUTLET OF SPREADING AREA A NEAR ARCO, ID

LOCATION.--Lat 43°29'45", long 113°04'19", in NE¼SW¼SW¼ sec.13, T.2 N., R.28 E., Butte County, Hydrologic Unit 17040218, on left bank, 1.4 mi south of head of INEEL diversion, 0.05 mi south of outlet of spreading area A, and 14.5 mi southeast of Arco.

PERIOD OF RECORD.--1965-68 (discharge measurements only); June 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,000.00 ft above sea level (levels by USGS).

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow is regulated by Mackay Reservoir (see sta 13126000) and is diverted from the Big Lost River at the INEEL Diversion at Head (see sta 13132513) for purposes of flood control at the Idaho National Engineering & Environmental Laboratory site.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 989 ft³/s June 9, 1986; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 453 ft³/s June 25; 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	.00	.00	.00	.00	.00	.00	.00	.00	91	121	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	193	54	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	265	27	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	303	18	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	325	8.7	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	350	3.7	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	370	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	368	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	338	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	283	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	190	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	86	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	46	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	27	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	14	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	5.7	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	13	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	64	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	166	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	250	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	311	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	367	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	422	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	452	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	453	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	391	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	377	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	354	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	307	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	205	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	11	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.00	7386.7	232.40	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.35	246	7.50	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	11	453	121	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	5.7	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	22	14650	461	.00	.00

CAL YR 1998 TOTAL 7393.33 MEAN 20.3 MAX 407 MIN .00 AC-FT 14660
WTR YR 1999 TOTAL 7630.10 MEAN 20.9 MAX 453 MIN .00 AC-FT 15130

MUD LAKE-LOST RIVER BASINS

13132520 BIG LOST RIVER BELOW INEEL DIVERSION NEAR ARCO, ID

LOCATION.--Lat 43°30'57", long 113°04'52", in SE¼SW¼NE¼ sec.11, T.2 N., R.28 E., Butte County, Hydrologic Unit 17040218, on right bank, 0.2 mi north of the head of the INEEL diversion, 4.5 mi south of State Highway 20-26 bridge over the Big Lost River, and 13.2 mi southeast of Arco.

PERIOD OF RECORD.--1965-68 (discharge measurements only); June 1984 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,000.00 ft above sea level (levels by U.S. Geological Survey).

REMARKS.--Records fair. Station equipment includes satellite telemetry. Flow regulated by Mackay Reservoir (see sta 13126000) and INEEL diversion (see sta 13132513). Station is below all diversions for irrigation in the Big Lost River Valley and is below the Idaho National Engineering & Environmental Laboratory diversion for flood control.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 468 ft³/s June 13, 1997; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 430 ft³/s June 4; minimum daily, 3.5 ft³/s Aug. 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	71	99	127	e75	e90	e110	295	111	379	e330	e8.0	e20
2	60	98	126	e75	e90	e110	288	119	394	e320	e9.0	e20
3	61	99	126	e70	e95	e115	265	115	413	e290	e9.5	e14
4	74	101	e120	e75	e95	e110	245	110	430	e260	e9.5	e12
5	81	103	e110	e80	e95	e110	245	109	421	e240	e9.0	e15
6	81	103	e100	e80	e95	e120	241	99	419	e225	e11	e17
7	71	107	e90	e80	e95	e120	229	92	420	e180	e13	e18
8	61	111	e90	e80	e95	e120	220	90	417	e160	e21	e14
9	56	109	e90	e85	e95	e120	218	94	407	e140	e21	e7.0
10	59	109	e85	e90	e95	121	212	101	e370	e120	e19	e13
11	61	e110	e85	e90	e90	121	209	98	e360	e100	e12	e13
12	64	e115	e85	e90	e85	121	200	94	e340	e90	e9.3	e13
13	64	120	e85	e95	e85	121	190	88	e320	e79	e4.0	e12
14	63	124	e90	e95	e95	120	180	99	e310	e57	e4.5	e10
15	62	130	e90	e95	e95	120	168	105	e300	38	e3.5	e9.0
16	67	130	e90	e95	e95	119	160	113	e320	e25	e4.0	e12
17	67	134	e85	e95	e100	123	153	113	e360	e18	e4.5	e13
18	74	136	e80	e100	e95	133	146	102	e380	e16	e4.0	e14
19	76	137	e70	e95	e90	152	143	92	e380	e14	e5.0	e14
20	72	134	e60	e100	e85	173	142	71	e380	e15	e7.0	e14
21	77	134	e50	e95	e95	188	139	64	e400	e6.8	e10	e14
22	89	130	e55	e95	e95	210	132	61	e400	e4.5	e15	e15
23	94	126	e60	e95	e95	239	136	73	375	e6.8	e23	e15
24	95	128	e65	e90	e100	272	125	69	378	e6.3	e20	14
25	98	129	e70	e90	e95	296	111	86	361	e8.0	e15	13
26	100	128	e75	e90	e95	311	102	96	362	e12	e16	17
27	100	127	e80	e90	e95	320	96	112	364	e15	e13	23
28	100	130	e85	e90	e105	309	103	131	370	e13	e14	27
29	98	131	e90	e85	---	302	111	229	357	e11	e15	29
30	98	128	e85	e80	---	296	111	328	345	e11	e11	31
31	97	---	e80	e85	---	293	---	366	---	e9.5	e15	---
TOTAL	2391	3600	2679	2725	2630	5495	5315	3630	11232	2820.9	354.8	472.0
MEAN	77.1	120	86.4	87.9	93.9	177	177	117	374	91.0	11.4	15.7
MAX	100	137	127	100	105	320	295	366	430	330	23	31
MIN	56	98	50	70	85	110	96	61	300	4.5	3.5	7.0
AC-FT	4740	7140	5310	5410	5220	10900	10540	7200	22280	5600	704	936

CAL YR 1998 TOTAL 39321.2 MEAN 108 MAX 438 MIN 7.0 AC-FT 77990
WTR YR 1999 TOTAL 43344.7 MEAN 119 MAX 430 MIN 3.5 AC-FT 85970

e Estimated

13132535 BIG LOST RIVER AT LINCOLN BOULEVARD BRIDGE NEAR ATOMIC CITY, ID

LOCATION.--Lat 43°34'26", long 112°56'33", in SE¼SW¼NE¼ sec.24, T.3 N., R.29 E., Butte County, Hydrologic Unit 17040218, on left bank, 2.6 mi north of Lincoln Boulevard-Portland Avenue intersection, and 18.5 mi southeast of Arco.

PERIOD OF RECORD.--1951-53, 1957, 1965-68 (discharge measurements only); July 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,900.00 ft above sea level (levels by USGS).

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Mackay Reservoir (see sta 13126000) and INEEL diversion (see sta 13132513). Station is below all diversions for irrigation in the Big Lost River Valley and is below the Idaho National Engineering Laboratory diversion for flood control. In 1992, the bridge below the gage was replaced by three (3) culverts, significantly changing the control for the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 434 ft^3/s June 17, 1997; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 420 ft^3/s June 4-8; 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	38	97	108	e.00	e.00	.00	277	108	388	315	2.4	3.2
2	32	96	104	e.00	e.00	.00	275	121	402	291	1.8	4.2
3	34	97	104	.00	e.00	e.00	255	108	419	273	3.0	4.4
4	48	99	109	.00	e.00	e.00	234	96	e420	252	2.9	2.5
5	65	104	95	.00	.00	e.00	228	95	e420	237	3.1	2.2
6	63	100	90	.00	.00	e.00	226	80	e420	215	2.1	3.1
7	54	103	74	.00	e.00	.00	219	67	e420	175	5.2	3.4
8	49	110	72	.00	e.00	.00	214	67	e420	150	7.2	3.7
9	46	105	e70	.00	.00	.00	210	81	413	134	7.0	2.9
10	48	e100	e60	.00	e1.0	.00	205	96	387	102	6.4	1.3
11	50	e110	e46	e4.0	e1.0	.00	200	100	e340	81	4.2	2.8
12	52	e115	e34	e4.5	e1.0	.00	194	94	327	68	2.5	2.5
13	51	115	e26	e5.0	e1.0	.00	187	84	315	44	.50	2.8
14	51	119	e15	e5.0	.00	.00	179	105	312	26	.08	2.5
15	54	122	12	e5.0	e1.0	.00	172	125	289	15	.00	2.1
16	57	128	5.0	e5.0	e1.0	e30	165	134	302	8.9	.00	1.8
17	60	132	2.7	e5.0	.00	e60	158	134	e340	7.8	.00	3.0
18	63	132	1.4	e5.5	.00	e80	152	111	e370	7.2	.00	3.4
19	65	130	.38	e5.5	.00	e110	147	89	e380	6.3	.00	3.5
20	64	123	.00	e6.0	e.00	144	146	53	e380	6.3	.00	3.7
21	65	122	.00	e6.0	.00	164	145	38	e390	4.6	.00	3.8
22	77	113	.00	e4.0	.00	182	147	31	e400	.92	1.4	3.6
23	82	103	.00	e2.0	.00	211	143	37	e380	.00	4.2	4.2
24	85	108	.00	e.00	e.00	244	133	36	e380	1.1	6.1	4.0
25	89	110	.00	.00	.00	275	104	50	e360	3.3	5.4	4.2
26	91	106	.00	.00	.00	289	81	61	e360	3.2	3.3	4.8
27	94	107	.00	.00	e.00	294	73	82	e360	5.8	3.6	5.2
28	97	112	.00	e.00	.00	291	86	118	e360	3.4	2.5	6.0
29	97	118	.00	e.00	---	287	109	198	351	4.1	2.7	7.4
30	97	108	.00	e.00	---	285	110	319	334	4.8	2.9	8.8
31	96	---	.00	e.00	---	277	---	365	---	4.8	2.0	---
TOTAL	2014	3344	1028.48	62.50	6.00	3223.00	5174	3283	11139	2450.52	82.48	111.0
MEAN	65.0	111	33.2	2.02	.21	104	172	106	371	79.0	2.66	3.70
MAX	97	132	109	6.0	1.0	294	277	365	420	315	7.2	8.8
MIN	32	96	.00	.00	.00	.00	73	31	289	.00	.00	1.3
AC-FT	3990	6630	2040	124	12	6390	10260	6510	22090	4860	164	220

CAL YR 1998 TOTAL 32200.38 MEAN 88.2 MAX 409 MIN .00 AC-FT 63870
WTR YR 1999 TOTAL 31917.98 MEAN 87.4 MAX 420 MIN .00 AC-FT 63310

e Estimated

MUD LAKE-LOST RIVER BASINS

13132565 BIG LOST RIVER ABOVE BIG LOST RIVER SINKS NEAR HOWE, ID

LOCATION.--Lat 43°43'40", long 112°52'20", in SW¼SW¼ sec.27, T.5 N., R.30 E., Butte County, Hydrologic Unit 17040218, on right bank 3.0 mi northwest of Lincoln Boulevard, and 6.5 mi southeast of Howe.

PERIOD OF RECORD.--1972-85 (discharge measurements only); March 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,805 ft above mean sea level, from topographic map.

REMARKS.--Records poor. Flow is regulated by Mackay Reservoir (see sta 13126000) and INEEL diversion (see sta 13132513). Station is below all diversions for irrigation in the Big Lost River Valley and is below the Idaho National Engineering & Environmental Laboratory diversion for flood control.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 442 ft^3/s June 19, 1997; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 387 ft^3/s June 4; 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	30	e90	e105	e.00	.00	e.00	e255	77	337	300	.00	.00
2	26	e90	e105	e.00	.00	e.00	e250	83	361	279	.00	.00
3	26	e95	e100	.00	.00	e.00	246	84	379	262	.00	.00
4	35	e100	e95	.00	.00	e.00	215	79	387	245	.00	.00
5	48	e100	e90	.00	.00	e.00	211	76	372	233	.00	.00
6	50	e100	e80	.00	.00	e.00	214	68	364	e200	.00	.00
7	43	e100	e60	.00	e.00	e.00	207	57	363	e160	.00	.00
8	38	e105	e60	.00	e.00	e.00	196	52	362	e140	.00	.00
9	37	e100	e50	.00	e.00	e.00	199	57	358	e110	.00	.00
10	39	e95	e40	.00	e.00	e.00	194	66	355	e90	.00	.00
11	42	e100	e20	.00	e.00	e.00	189	68	333	e70	.00	.00
12	44	e105	e10	.00	e.00	e.00	185	64	313	e50	.00	.00
13	45	e110	e4.0	.00	e.00	e.00	176	62	302	e30	.00	.00
14	45	e115	e.00	.00	e.00	e.00	166	66	293	e20	.00	.00
15	46	e120	.00	.00	e.00	e.00	153	78	275	e10	.00	.00
16	48	e120	.00	.00	e.00	e.00	148	83	278	e8.0	.00	.00
17	53	e125	.00	.00	e.00	e.00	137	84	323	e6.0	.00	.00
18	54	e125	.00	e.00	e.00	e.00	126	76	364	e5.0	.00	.00
19	57	e120	.00	e.00	e.00	e.00	121	68	369	e4.0	.00	.00
20	56	e110	.00	e.00	e.00	e.00	122	49	366	e3.0	.00	.00
21	56	e110	.00	e.00	e.00	e130	118	31	377	e2.0	.00	.00
22	64	e110	e.00	e.00	e.00	e150	117	25	375	e1.0	.00	.00
23	69	e105	e.00	e.00	e.00	e180	113	25	369	.00	.00	.00
24	71	e105	e.00	e.00	e.00	e210	103	26	363	.00	.00	.00
25	73	e105	e.00	.00	e.00	e250	84	29	348	.00	.00	.00
26	e75	e105	e.00	.00	e.00	e260	66	37	339	.00	.00	.00
27	e85	e100	e.00	.00	e.00	e275	57	53	358	.00	.00	.00
28	e90	e105	e.00	.00	e.00	e270	57	66	342	.00	.00	.00
29	e85	e110	e.00	.00	---	e270	74	114	333	.00	.00	.00
30	e90	e105	e.00	.00	---	e260	77	253	318	.00	.00	.00
31	e90	---	e.00	.00	---	e260	---	283	---	.00	.00	---
TOTAL	1710	3185	819.00	0.00	0.00	2515.00	4576	2339	10376	2228.00	0.00	0.00
MEAN	55.2	106	26.4	.000	.000	81.1	153	75.5	346	71.9	.000	.000
MAX	90	125	105	.00	.00	275	255	283	387	300	.00	.00
MIN	26	90	.00	.00	.00	.00	57	25	275	.00	.00	.00
AC-FT	3390	6320	1620	.00	.00	4990	9080	4640	20580	4420	.00	.00

CAL YR 1998 TOTAL 28347.90 MEAN 77.7 MAX 410 MIN .00 AC-FT 56230
WTR YR 1999 TOTAL 27748.00 MEAN 76.0 MAX 387 MIN .00 AC-FT 55040

e Estimated

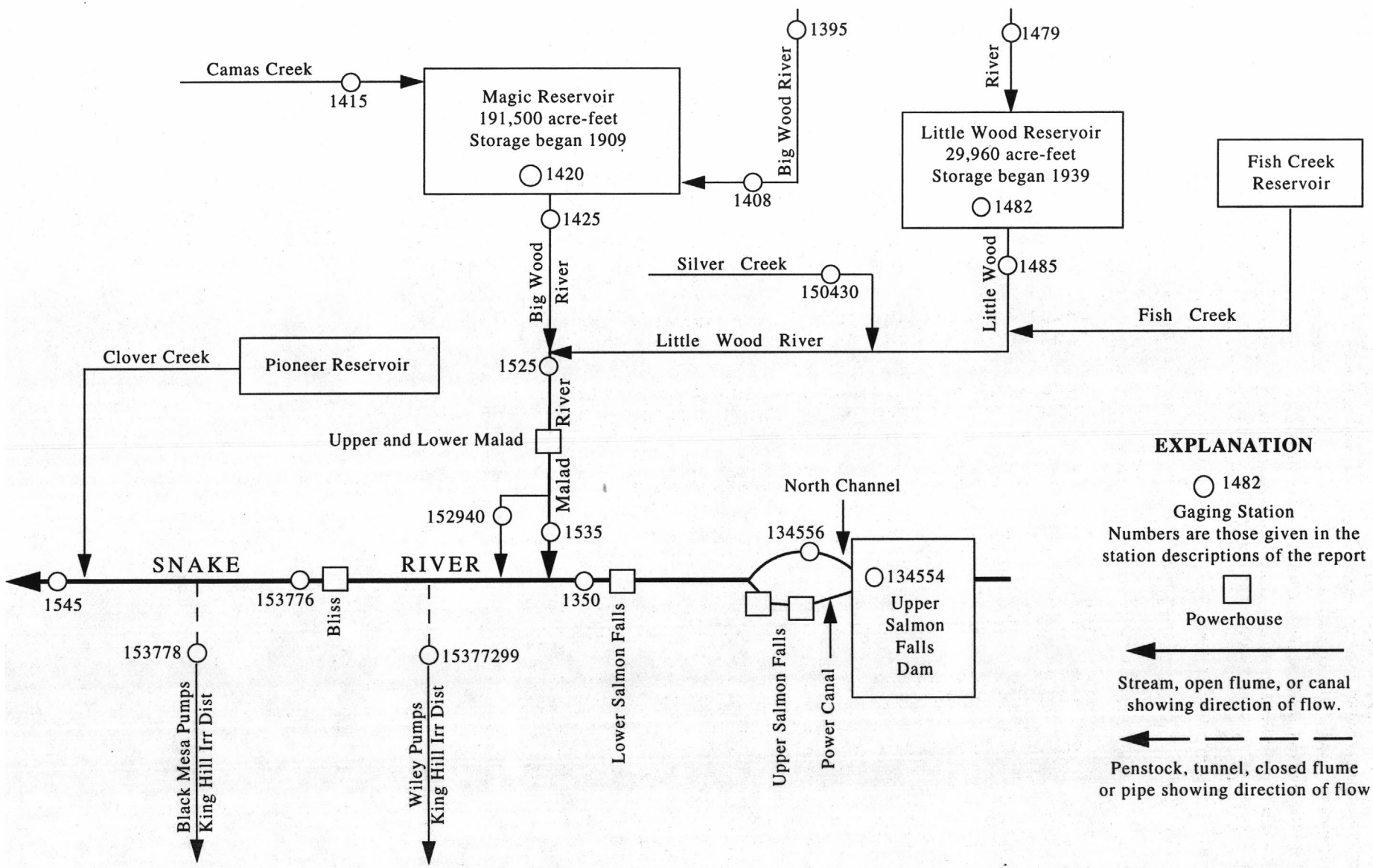


Figure 15. Gaging stations in Snake River basin between Upper Salmon Falls and King Hill.

SNAKE RIVER MAIN STEM

13134554 SNAKE RIVER AT UPPER SALMON FALLS DAM NEAR HAGERMAN, ID

LOCATION.--Lat 42°46'10", long 114°53'41", in NE¼NW¼NE¼ sec.2, T.8 S., R.21 E., Gooding County, Hydrologic Unit 17040212, near right bank on Upper Salmon Falls Dam, approximately 3.5 mi south of Hagerman, and at mile 581.4.

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

GAGE.--Water-stage recorder. Datum of gage is 2,865.61 ft above sea level.

REMARKS.--Gage heights affected by backwater fluctuations from Idaho Power Company's Upper Salmon Falls diversion dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 14.56 ft, June 7, 1993; minimum, 9.86 ft, May 13, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum daily gage height, 14.15 ft, Sept. 27; minimum daily, 11.53 ft, June 16.

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	13.85	13.92	13.61	13.41	13.76	---	13.29	13.41	13.00	13.43	13.79	14.02
2	13.76	13.79	13.52	13.39	13.87	---	13.75	13.39	12.75	13.42	13.84	13.92
3	13.87	13.82	13.52	13.51	13.75	13.66	13.94	13.37	12.95	13.66	13.82	13.98
4	13.83	13.74	13.61	13.40	13.74	13.69	13.00	13.28	---	13.72	13.83	14.04
5	13.85	13.52	13.66	13.30	13.81	13.67	13.16	13.29	---	13.74	13.88	14.00
6	13.85	13.62	13.36	13.08	13.80	13.67	13.35	13.37	---	13.70	13.89	14.02
7	13.81	13.58	13.26	13.34	13.71	13.67	13.52	13.15	---	13.64	13.80	13.94
8	13.80	13.59	13.30	13.55	13.90	13.68	13.47	12.99	12.23	13.52	13.85	13.95
9	13.77	13.60	13.33	13.44	14.00	13.73	13.17	12.73	12.25	13.56	13.92	13.89
10	13.77	13.48	13.49	13.59	13.97	13.66	13.25	12.81	11.84	13.56	13.84	13.84
11	13.78	13.78	13.61	13.56	13.87	---	13.09	12.94	11.80	13.57	13.84	13.90
12	13.78	13.89	13.61	13.61	13.82	---	13.04	12.94	11.73	13.62	13.94	13.97
13	13.79	13.92	13.61	13.61	13.53	---	13.14	12.81	11.67	13.54	13.95	14.07
14	13.85	13.88	13.48	13.59	13.76	---	13.43	12.82	11.65	13.42	13.94	14.04
15	13.82	13.82	13.46	13.64	13.79	---	13.49	12.90	11.68	13.43	13.93	13.99
16	13.79	13.50	13.67	13.48	13.83	---	13.47	12.85	11.53	13.54	13.96	13.94
17	13.72	13.60	13.60	13.30	13.75	---	13.39	12.87	12.46	13.65	13.93	13.87
18	13.62	13.23	13.58	13.55	13.77	---	13.42	12.83	13.22	13.67	13.81	13.92
19	13.67	13.85	13.59	13.64	13.74	---	13.41	12.91	13.06	13.73	13.86	13.97
20	13.66	13.95	13.67	13.64	13.68	13.83	13.06	13.06	13.00	13.68	13.82	13.99
21	13.77	13.72	13.54	13.71	13.67	13.79	13.16	12.83	13.14	13.63	13.82	13.96
22	13.74	13.67	13.89	13.67	13.73	13.77	13.16	12.69	13.11	13.72	13.86	13.96
23	13.69	13.74	13.63	13.66	13.72	13.59	13.28	12.81	13.17	13.74	13.92	13.99
24	13.62	13.83	13.82	13.42	---	13.57	13.23	12.92	13.22	13.73	13.92	14.02
25	13.68	13.71	13.70	13.49	13.65	13.63	13.23	13.01	13.31	13.75	13.93	14.03
26	13.76	13.76	13.70	13.43	13.65	13.59	13.33	13.08	13.28	13.80	13.88	14.08
27	13.83	13.56	13.73	13.51	13.72	13.65	13.36	13.18	13.23	13.74	13.95	14.15
28	13.83	13.53	13.76	13.92	13.74	13.65	13.40	13.15	13.23	13.63	13.97	14.14
29	13.86	13.55	13.78	13.98	---	13.60	13.38	13.23	13.34	13.52	14.00	14.05
30	14.13	13.57	13.49	13.82	---	13.29	13.36	13.19	13.42	13.65	14.04	13.94
31	14.05	---	13.61	13.70	---	13.24	---	13.20	---	13.73	14.04	---
MEAN	13.79	13.69	13.59	13.55	---	---	13.32	13.03	---	13.63	13.90	13.99
MAX	14.13	13.95	13.89	13.98	---	---	13.94	13.41	---	13.80	14.04	14.15
MIN	13.62	13.23	13.26	13.08	---	---	13.00	12.69	---	13.42	13.79	13.84

CAL YR 1998 MEAN 13.48 MAX 14.13 MIN 11.65

SNAKE RIVER MAIN STEM

13134556 NORTH CHANNEL SNAKE RIVER AT UPPER SALMON FALLS NEAR HAGERMAN, ID

LOCATION.--Lat 42°46'10", long 114°54'11", in SE¼SW¼SW¼ sec. 35, T. 7 S., R. 21 E., Gooding County, Hydrologic Unit 17040212, on right bank, approximately 3.5 mi south of Hagerman, and 0.5 mile below Upper Salmon Falls Dam.

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

REVISED RECORDS.--WDR-ID-95-1: 1993.

GAGE.--Water-stage recorder. Elevation of gage is 2,850 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records poor. Flow is regulated by Upper Salmon Falls Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 20,800 ft^3/s June 22, 1997; maximum gage height, 16.74 ft, June 22, 1997; minimum, 0.22 ft^3/s Nov. 19, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 13,100 ft^3/s June 7; maximum gage height, 14.52 ft, June 7; minimum daily, 38 ft^3/s Nov. 18, but may have been less during period of no gage-height record July 24 to Aug. 5 and Aug. 11-27.

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	216	1940	4730	6060	3620	4740	6940	3550	7890	1030	---	346
2	133	1790	4660	6070	3750	4770	2260	4450	9290	393	---	232
3	173	1800	4680	6110	3640	4840	5820	5260	10600	84	---	293
4	141	1750	4760	6040	3620	4840	7300	5410	12000	105	---	354
5	151	1670	5470	6030	3690	4850	7400	2650	12600	130	---	306
6	154	1700	5940	5920	3680	4880	8170	5990	13000	114	238	333
7	139	1670	5900	5890	3600	4840	8690	8080	13100	87	161	244
8	123	1680	5920	5650	3770	4820	9400	9360	13000	51	184	259
9	123	1680	5910	5570	3880	4840	9840	10700	13000	62	237	196
10	122	1640	5980	5670	3830	4760	9970	9950	13000	64	191	151
11	126	1770	6070	5650	3830	4680	9820	9730	12800	65	---	174
12	119	1850	6080	5670	4470	4400	9810	9800	12600	82	---	194
13	132	1880	6070	5670	4520	3170	9100	10400	12400	59	---	269
14	165	1870	5980	5660	4730	1920	8640	9850	12300	43	---	297
15	126	1870	5610	5700	4770	589	8640	9730	12300	43	---	278
16	138	1440	5430	5600	4810	129	8670	9720	11900	58	---	230
17	124	101	5360	5540	4700	54	8590	9560	9670	90	---	175
18	71	38	5350	5650	4730	148	8620	10400	7580	97	---	218
19	83	256	5070	5680	4700	2270	8580	9700	7310	127	---	266
20	75	363	5020	5680	4640	3830	8140	9850	7250	103	---	302
21	147	2250	4530	5750	4590	5070	7870	10800	7650	84	---	276
22	136	3540	5420	5750	4640	6410	7230	10400	7410	122	---	283
23	99	3580	5470	5960	4640	7000	6050	9840	6260	128	---	304
24	75	4000	5420	6020	4600	7020	5860	9440	5520	---	---	320
25	102	4570	5310	6030	4640	7090	4930	8810	5780	---	---	328
26	130	4900	5290	6010	4630	7090	4560	7440	5920	---	---	370
27	482	4710	5310	4880	4700	7090	3980	6290	6220	---	---	427
28	1400	4680	5350	3700	4720	7070	2910	6410	5660	---	270	399
29	1760	4690	5370	3660	---	7060	2890	6650	3650	---	308	309
30	2000	4700	4370	3600	---	6940	3130	6810	2600	---	319	219
31	2010	---	5670	3560	---	6910	---	7270	---	---	324	---
TOTAL	10975	70378	167500	170430	120140	144120	213810	254300	280260	---	---	8352
MEAN	354	2346	5403	5498	4291	4649	7127	8203	9342	---	---	278
MAX	2010	4900	6080	6110	4810	7090	9970	10800	13100	---	---	427
MIN	71	38	4370	3560	3600	54	2260	2650	2600	---	---	151
AC-FT	21770	139600	332200	338000	238300	285900	424100	504400	555900	---	---	16570

SNAKE RIVER MAIN STEM

13135000 SNAKE RIVER BELOW LOWER SALMON FALLS, NEAR HAGERMAN, ID

LOCATION.--Lat 42°50'55", long 114°54'02", in NW¼ sec.2, T.7 S., R.13 E., Gooding County, Hydrologic Unit 17040212, on right bank, 0.5 mi downstream from Lower Salmon Falls powerplant, 1 mi upstream from Malad River, 2.2 mi north of Hagerman, and at mile 572.5.

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for October 1937, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is 2,727.7 ft above sea level (stadia levels). Prior to Jan. 3, 1950, at site 340 ft upstream.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by American Falls Reservoir, 141.6 mi upstream. Diurnal fluctuation caused by hydroelectric plants upstream. At times, practically entire flow is diverted at Milner during the irrigation season; only minor diversions below Milner. Most of the percolation upstream into the Snake River Plain aquifer returns above station, including some water diverted from the Malad River. Diversions above station for irrigation of about 2,330,000 acres, of which about 665,000 acres are irrigated by withdrawals from ground water. There are about 83,000 acres irrigated below station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,500 ft³/s June 21, 1997, gage height, 18.81 ft; minimum, probably less than 100 ft³/s Jan. 10, 11, 1950, when river was below intake pipes; minimum daily, 3,970 ft³/s Jan. 8, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,800 ft³/s June 8, gage height, 13.89 ft; minimum daily, 5,500 ft³/s 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	8150	9610	13300	14500	12900	13400	15200	10600	15300	6910	6720	7480
2	7880	9260	13400	14300	13100	13400	11900	12000	16500	6380	6630	7210
3	7850	9470	12900	14300	12900	13400	16000	12700	19100	6920	6570	7250
4	8000	9410	13300	14000	12700	13600	15300	13000	20500	5740	6760	7500
5	7890	9030	14300	13900	12900	13500	15300	10400	21200	6450	6910	7370
6	7890	8630	14200	13700	12800	13700	16500	13000	21700	7090	7050	7470
7	7920	8690	13900	13500	12700	13600	18200	16100	22600	6520	6730	7250
8	7600	8660	13800	13800	13000	13600	19600	17700	22900	5500	6950	7150
9	8090	8720	14000	13800	13800	13600	19100	19300	22700	6300	6880	7140
10	7610	8730	14000	13900	13800	13500	19600	18200	22500	6290	6380	6970
11	7580	8800	14000	13900	13500	12800	19000	18100	22200	6290	6790	7020
12	7820	9470	14200	14000	13800	12000	18700	18000	21900	6370	7130	7060
13	7960	9090	14200	14000	13100	10300	18000	18700	21600	6310	7680	7050
14	7960	9410	13900	13900	13600	9490	17900	18000	21400	6370	6540	7190
15	8110	9320	13600	14100	13900	8610	17900	17900	21400	6250	6860	7030
16	7950	8500	13700	13900	13900	7950	17900	18000	20700	6330	7520	7060
17	8290	7390	13600	13500	13800	8060	17600	17700	18100	6430	6700	7100
18	7700	6870	13700	13200	13700	8270	17600	18600	15700	6390	7540	7090
19	7870	8530	13400	13300	13600	11400	17700	18100	14900	6580	6220	7100
20	7900	9430	13700	13600	13600	12600	16100	17900	14200	6530	7550	7930
21	7860	11000	12600	13900	13600	14000	15600	19000	14800	6420	6330	6610
22	8000	11200	14400	14000	13600	15200	14900	18700	14700	6410	7350	7310
23	7820	11600	14200	14600	13600	15800	13400	17900	13200	6400	6710	7270
24	7830	12800	14300	14200	13600	16000	13300	17600	12400	6680	7030	7290
25	7810	13200	14200	14200	13500	16300	12300	16800	12600	6380	7640	7370
26	7880	13600	14200	14100	13300	16200	11700	15000	12700	6890	6760	7760
27	8340	13300	14300	13400	13200	16200	11100	13600	13100	6310	6750	7410
28	9390	13300	14200	13300	13400	16300	10200	13800	12600	6640	7110	7860
29	8600	13200	14400	13600	---	16200	9370	14200	10500	6650	7150	8300
30	9670	13300	12500	13300	---	15500	10100	14500	8200	6870	7270	6870
31	9780	---	14200	13100	---	15300	---	15000	---	6470	7280	---
TOTAL	251000	303520	428600	428800	374900	409780	467070	500100	521900	200070	215490	218470
MEAN	8097	10120	13830	13830	13390	13220	15570	16130	17400	6454	6951	7282
MAX	9780	13600	14400	14600	13900	16300	19600	19300	22900	7090	7680	8300
MIN	7580	6870	12500	13100	12700	7950	9370	10400	8200	5500	6220	6610
AC-FT	497900	602000	850100	850500	743600	812800	926400	991900	1035000	396800	427400	433300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1999, BY WATER YEAR (WY)

MEAN	8761	9106	9440	9772	9884	10040	11270	10340	10620	6773	6692	7469
MAX	16610	18910	17490	19770	23680	25260	25250	24090	29800	11620	9373	13060
(WY)	1985	1985	1984	1984	1997	1997	1971	1984	1997	1983	1997	1997
MIN	5785	5791	5648	5633	5304	4881	4821	4459	4467	4694	4716	5192
(WY)	1993	1995	1995	1993	1995	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1938 - 1999	
ANNUAL TOTAL	4190120		4319700			
ANNUAL MEAN	11480		11830		9171	
HIGHEST ANNUAL MEAN					15660	1984
LOWEST ANNUAL MEAN					5366	1992
HIGHEST DAILY MEAN	23300	May 26	22900	Jun 8	38000	Jun 21 1997
LOWEST DAILY MEAN	6070	Jul 17	5500	Jul 8	3970	Jul 8 1951
ANNUAL SEVEN-DAY MINIMUM	6390	Jul 12	6200	Jul 8	4330	Jun 6 1992
ANNUAL RUNOFF (AC-FT)	8311000		8568000		6644000	
10 PERCENT EXCEEDS	16700		17900		15500	
50 PERCENT EXCEEDS	11500		12900		7450	
90 PERCENT EXCEEDS	6760		6730		5740	

MALAD RIVER BASIN

13139500 BIG WOOD RIVER AT HAILEY, ID

LOCATION.--Lat 43°31'02", long 114°19'14", in SW¼NE¼SW¼ sec.9, T.2 N., R.18 E., Blaine County, Hydrologic Unit 17040219, on left bank, 15 ft upstream from county road crossing, 0.2 mi southwest of Hailey, 0.4 mi upstream from Croy Creek, and at mile 91.0.

DRAINAGE AREA.--640 mi^2, approximately. Mean elevation, 7,620 ft.

PERIOD OF RECORD.--July to December 1889, June 1915 to current year. Published as "Wood River at Hailey" in 1889. Previously published as "Big Wood River and Big Wood Slough combined discharge at Hailey, Idaho".

REVISED RECORDS.--WDR ID-81-1: 1974-80 average discharge.

GAGE.--Water-stage recorder. Datum of gage is 5,295.42 ft above sea level. July to December 1889, nonrecording gage at nearby site at different datum. June 11, 1915 to Nov. 15, 1934, nonrecording gages at present site at different datum. Nov. 16, 1934 to Oct. 15, 1970, at datum 2.00 ft higher. Nov. 10, 1971 to Sept. 30, 1972, nonrecording gages at different sites at present datum.

REMARKS.--Records good except for estimated daily discharges, which are fair, and daily discharges Aug. 18-27, which are poor. Station equipment includes telemetry. Diversions above station for irrigation of about 10,000 acres (1966 determination), of which about 1,200 acres are below station. Storage above station is negligible.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 6,150 ft^3/s May 30, 1983, gage height, 7.93 ft; maximum gage height, 10.66 ft, June 12, 1921, present datum; minimum daily, 15 ft^3/s Dec. 27, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,360 ft^3/s June 19, gage height, 5.71 ft; minimum daily, 120 ft^3/s Dec. 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	258	248	239	188	176	201	309	1130	2180	1440	475	281
2	279	250	237	179	173	190	298	1160	2280	1400	465	283
3	283	253	256	171	177	194	298	1100	2470	1270	461	282
4	278	255	259	166	179	184	292	1000	2260	1170	476	292
5	274	261	203	187	165	166	293	915	2090	1100	487	279
6	271	256	186	194	183	166	285	891	2070	1080	463	269
7	266	248	160	191	191	197	290	1010	1950	1170	442	264
8	263	261	e180	187	180	185	304	1070	1780	1120	427	263
9	265	237	166	187	192	195	304	1050	1630	1020	402	256
10	263	238	150	193	e160	189	292	978	1500	986	385	249
11	264	254	e170	193	e160	187	292	909	1430	965	389	248
12	263	237	187	190	183	182	302	890	1440	945	392	244
13	257	251	197	189	180	193	332	880	1580	932	384	242
14	258	250	197	183	188	199	389	849	1900	904	370	238
15	260	249	187	201	183	204	424	825	2330	845	357	231
16	263	242	190	205	184	204	452	802	2740	778	347	228
17	261	244	192	193	189	202	526	768	3150	751	336	225
18	263	241	190	203	185	206	648	772	3100	714	330	224
19	258	219	150	201	187	217	795	893	3110	681	329	219
20	258	216	e130	205	170	238	877	1050	2890	646	341	218
21	255	255	e120	203	191	263	886	1240	2720	637	339	215
22	256	260	e130	198	174	274	806	1460	2370	613	349	212
23	272	246	e130	201	186	288	743	1700	2130	585	313	211
24	264	253	141	166	187	307	779	2040	2030	570	315	207
25	260	240	169	e140	194	342	806	2440	2030	557	311	207
26	256	229	187	183	192	406	1000	2760	1820	530	288	212
27	253	236	185	184	181	417	1020	2780	1640	513	279	220
28	252	246	185	167	192	376	1030	2680	1520	513	283	227
29	251	243	178	174	---	352	926	2920	1440	545	294	231
30	249	241	184	160	---	331	877	2890	1410	507	283	230
31	244	---	185	172	---	317	---	2500	---	487	280	---
TOTAL	8117	7359	5620	5754	5082	7572	16875	44352	62990	25974	11392	7207
MEAN	262	245	181	186	182	244	562	1431	2100	838	367	240
MAX	283	261	259	205	194	417	1030	2920	3150	1440	487	292
MIN	244	216	120	140	160	166	285	768	1410	487	279	207
AC-FT	16100	14600	11150	11410	10080	15020	33470	87970	124900	51520	22600	14300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1999, BY WATER YEAR (WY)

MEAN	204	188	161	155	152	188	526	1288	1491	669	269	207
MAX	427	430	324	307	275	475	1418	3039	3272	2196	685	446
(WY)	1984	1984	1984	1997	1984	1986	1943	1969	1983	1995	1965	1965
MIN	84.2	92.4	95.1	79.4	95.4	108	151	201	235	111	74.9	63.4
(WY)	1935	1932	1932	1932	1932	1932	1977	1977	1934	1931	1934	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1916 - 1999	
ANNUAL TOTAL	224087		208294			
ANNUAL MEAN	614		571		459	
HIGHEST ANNUAL MEAN					842	1983
LOWEST ANNUAL MEAN					170	1931
HIGHEST DAILY MEAN	2460	Jun 14	3150	Jun 17	5450	May 30 1983
LOWEST DAILY MEAN	120	Dec 21	120	Dec 21	15	Dec 27 1931
ANNUAL SEVEN-DAY MINIMUM	139	Dec 19	139	Dec 19	57	Aug 28 1931
ANNUAL RUNOFF (AC-FT)	444500		413200		332500	
10 PERCENT EXCEEDS	1790		1450		1190	
50 PERCENT EXCEEDS	277		263		210	
90 PERCENT EXCEEDS	180		182		122	

e Estimated

MALAD RIVER BASIN

13140800 BIG WOOD RIVER AT STANTON CROSSING NEAR BELLEVUE, ID

LOCATION.--Lat 43°19'50", long 114°19'06", in NW¼NE¼NE¼ sec.21, T.1 S., R.18 E., Blaine County, Hydrologic Unit 17040219, on right bank, at upstream end of Mahoney Flat, 2.8 mi upstream from maximum flow line of Magic Reservoir, 4.1 mi upstream from Camas Creek, 9.5 mi southwest of Bellevue, and at mile 77.0.

DRAINAGE AREA.--820 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1996 to current year. Records from July 1911 to Sept. 1996, (no winter records prior to Oct. 1943, except water years 1916, 1921-22, 1940-41) at downstream site published as "near Bellevue" (sta 13141000) are not equivalent because of inflow between sites.

GAGE.--Water-stage recorder. Elevation of gage is 4,830 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Diversions above station for irrigation of about 21,800 acres, of which about 400 acres are irrigated by withdrawals from ground water (1966 determination). Storage above station is negligible.

COOPERATION.--Idaho Department of Water Resources and Water District 37.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge 4,670 ft^3/s June 5, 1997; minimum daily, 27 ft^3/s Jan. 17, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 3,910 ft^3/s June 19, gage height, 8.54 ft; minimum daily, 27 ft^3/s Jan. 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	98	122	137	38	37	74	218	1110	2150	1340	62	46
2	106	121	135	34	38	76	208	1230	2150	1330	61	46
3	114	124	142	30	43	75	205	1200	2460	1180	57	45
4	115	123	149	29	50	75	202	1090	2400	1070	59	48
5	122	126	139	30	50	70	202	979	2210	957	65	46
6	123	128	118	33	54	64	198	928	2200	889	63	47
7	125	125	114	32	65	71	205	1010	2100	927	63	45
8	130	129	125	29	65	72	217	1090	1870	916	57	45
9	131	123	103	28	68	74	225	1090	1670	823	56	43
10	124	119	43	28	63	73	214	1030	1480	774	54	43
11	127	123	39	28	48	73	207	952	1400	739	70	43
12	125	121	37	28	43	72	212	913	1360	698	89	42
13	123	120	36	28	51	73	229	887	1460	651	98	42
14	124	125	36	28	58	76	257	852	1750	551	90	42
15	131	128	35	29	61	79	289	809	2220	486	85	41
16	140	127	34	28	63	81	321	750	2730	406	70	41
17	143	126	34	27	68	83	372	695	3130	368	68	40
18	141	129	33	28	65	85	491	656	3430	318	67	40
19	140	122	32	28	69	90	677	688	3510	269	62	40
20	138	114	31	34	64	98	818	770	3310	214	61	40
21	133	129	30	39	71	115	874	941	3030	209	63	40
22	133	145	30	41	69	131	806	1130	2690	196	65	39
23	140	143	29	45	69	141	710	1370	2410	166	64	37
24	143	148	29	41	67	158	735	1710	2270	140	63	36
25	138	141	30	33	69	184	765	2110	2220	133	60	36
26	135	135	31	31	70	228	929	2480	1970	125	57	36
27	132	132	36	31	69	284	1010	2610	1740	70	61	36
28	130	138	37	31	70	266	1050	2500	1550	64	61	38
29	130	141	41	31	---	244	969	2760	1410	66	54	39
30	127	139	42	33	---	230	890	2770	1340	67	51	38
31	124	---	41	34	---	224	---	2470	---	64	49	---
TOTAL	3985	3866	1928	987	1677	3739	14705	41580	65620	16206	2005	1240
MEAN	129	129	62.2	31.8	59.9	121	490	1341	2187	523	64.7	41.3
MAX	143	148	149	45	71	284	1050	2770	3510	1340	98	48
MIN	98	114	29	27	37	64	198	656	1340	64	49	36
AC-FT	7900	7670	3820	1960	3330	7420	29170	82470	130200	32140	3980	2460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

MEAN	118	130	47.1	95.7	87.4	168	590	2048	2507	762	129	83.5
MAX	176	164	62.2	202	118	250	865	2842	3208	1105	206	135
(WY)	1998	1998	1999	1997	1997	1997	1997	1997	1997	1998	1997	1997
MIN	48.2	95.6	36.4	31.8	59.9	121	415	1341	2127	523	64.7	41.3
(WY)	1997	1997	1997	1999	1999	1999	1998	1999	1998	1999	1999	1999

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1996 - 1999	
ANNUAL TOTAL	195065		157538			
ANNUAL MEAN	534		432		565	
HIGHEST ANNUAL MEAN					723	1997
LOWEST ANNUAL MEAN					432	1999
HIGHEST DAILY MEAN	2770	Jun 14	3510	Jun 19	4670	Jun 5 1997
LOWEST DAILY MEAN	29	Jan 1	27	Jan 17	27	Jan 17 1999
ANNUAL SEVEN-DAY MINIMUM	30	Dec 20	28	Jan 11	28	Jan 11 1999
ANNUAL RUNOFF (AC-FT)	386900		312500		409200	
10 PERCENT EXCEEDS	2000		1380		1970	
50 PERCENT EXCEEDS	128		122		138	
90 PERCENT EXCEEDS	45		34		36	

13140800 BIG WOOD RIVER AT STANTON CROSSING NEAR BELLEVUE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-1981, October 1989 to September 1990, November 1991 to September 1992, November 1993 to September 1994, April 1996 to September 1997, April to September 1999 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June to September 1997, May 13 to September 12, 1999 (discontinued).

INSTUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 21.8 °C July 27-28, 1999.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 21.8 °C July 27-28.

REMARKS.--Water-quality data previously published as Big Wood River near Bellevue, Id (sta 13141000).

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)	SOLVED TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS- (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
14...	1215	261	300	8.1	12.0	6.5	1.7	10.2	96	K2	K6
MAY											
12...	1130	932	241	8.3	15.5	6.8	9.0	10.6	104	<1	K5
JUN											
18...	1230	3640	165	7.9	26.0	10.7	120	9.7	102	--	--
JUL											
16...	1215	430	160	7.9	27.1	14.0	1.6	8.7	101	31	41
AUG											
18...	1045	73	295	8.0	24.0	15.6	.30	8.1	89	53	49
SEP											
14...	1315	45	309	7.8	23.5	16.3	.45	10.3	121	19	28

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
14...	160	47	9.4	4.9	6	1.3	180	0

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
14...	149	12	2.6	.30	16	183	.25	22.2

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 TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
14...	<.010	.214	<.020	.15	<.050	<.010	5	3.5
MAY								
12...	<.010	.073	<.020	.19	<.050	<.010	8	20
JUN								
18...	<.010	.108	<.020	1.1	.574	.026	226	2220
JUL								
16...	<.010	.069	<.020	.11	<.050	.011	3	3.5
AUG								
18...	<.010	.073	<.020	.11	<.050	<.010	1	.20
SEP								
14...	<.010	<.050	<.020	.13	<.050	<.010	1	.12

K Results based on counts outside ideal colony range.

MALAD RIVER BASIN

13140800 BIG WOOD RIVER AT STANTON CROSSING NEAR BELLEVUE, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	---	---	---
2	---	---	---	---	---	---
3	---	---	---	---	---	---
4	---	---	---	---	---	---
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	---	---	---	---	---	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---
11	---	---	---	---	---	---
12	---	---	---	---	---	---
13	---	---	---	11.6	7.0	8.8
14	---	---	---	10.8	5.6	8.0
15	---	---	---	8.7	5.9	7.1
16	---	---	---	9.7	5.6	7.6
17	---	---	---	12.1	5.9	8.8
18	---	---	---	13.3	7.3	10.1
19	---	---	---	14.4	8.2	11.1
20	---	---	---	13.6	8.4	10.7
21	---	---	---	14.4	8.5	11.2
22	---	---	---	13.9	8.7	11.1
23	---	---	---	13.9	9.4	11.6
24	---	---	---	13.6	9.3	11.3
25	---	---	---	11.6	9.0	10.4
26	---	---	---	12.5	8.4	10.5
27	---	---	---	12.1	7.6	10.1
28	---	---	---	11.5	8.4	10.0
29	---	---	---	11.1	8.7	9.6
30	---	---	---	9.7	7.9	8.8
31	---	---	---	11.5	6.8	9.0
MONTH	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.3	7.7	9.6	15.5	10.4	12.8	19.2	14.1	16.2	16.6	13.3	14.4
2	9.6	7.9	8.5	15.0	10.2	12.3	20.3	14.6	17.1	16.8	12.5	14.2
3	9.1	7.3	8.0	15.7	9.7	12.5	20.0	15.0	16.6	16.0	12.4	13.8
4	12.2	6.3	9.3	15.2	10.2	12.5	21.3	14.6	17.4	18.2	11.9	14.5
5	11.9	7.9	10.0	---	---	---	21.6	14.9	17.4	18.9	12.2	15.0
6	9.7	7.9	8.9	---	---	---	19.7	14.6	17.0	17.7	12.5	14.5
7	11.5	7.0	8.9	---	---	---	17.9	14.6	16.1	18.1	11.9	14.4
8	11.3	7.6	9.2	---	---	---	20.8	13.8	16.7	18.5	11.8	14.7
9	11.8	6.7	9.0	---	---	---	21.3	13.9	17.1	18.1	12.4	14.9
10	12.9	7.0	9.7	---	---	---	17.7	13.9	15.6	17.6	12.9	14.6
11	13.8	8.2	10.8	---	---	---	19.3	13.8	16.1	17.7	11.9	14.3
12	14.7	8.8	11.6	---	---	---	19.3	13.5	16.1	17.9	12.1	14.5
13	13.8	9.7	11.8	---	---	---	20.2	13.8	16.2	---	---	---
14	14.7	9.9	12.1	---	---	---	19.3	13.2	15.8	---	---	---
15	14.7	10.2	12.4	---	---	---	19.2	13.0	15.5	---	---	---
16	13.8	9.9	11.8	---	---	---	20.0	12.5	15.8	---	---	---
17	13.3	9.7	11.5	18.9	12.2	15.2	20.6	13.2	16.4	---	---	---
18	13.6	9.4	11.5	19.2	11.8	15.4	20.0	13.5	16.4	---	---	---
19	13.3	9.6	11.7	19.7	12.7	15.9	20.8	14.7	17.3	---	---	---
20	13.8	9.3	11.6	20.0	13.3	16.3	20.6	14.7	17.2	---	---	---
21	12.7	10.1	11.2	20.0	12.7	16.1	21.1	15.0	17.4	---	---	---
22	13.6	8.7	11.0	20.0	12.9	16.2	20.6	14.6	17.2	---	---	---
23	14.1	9.7	11.9	20.3	12.9	16.4	19.8	15.0	17.2	---	---	---
24	13.6	10.2	12.0	19.5	13.3	16.0	20.8	15.5	17.6	---	---	---
25	13.5	10.2	11.7	19.8	12.7	15.9	20.5	14.7	17.1	---	---	---
26	13.5	8.5	10.9	20.5	12.7	16.3	21.0	14.6	17.3	---	---	---
27	13.9	9.1	11.3	21.8	13.8	17.1	19.8	14.9	17.1	---	---	---
28	13.6	9.4	11.5	21.8	14.4	17.2	20.6	15.5	17.5	---	---	---
29	15.5	10.1	12.4	21.3	14.6	17.3	20.6	14.9	17.3	---	---	---
30	15.7	10.7	12.9	20.5	14.2	16.8	18.4	14.1	16.2	---	---	---
31	---	---	---	20.3	13.6	16.6	18.4	12.2	14.9	---	---	---
MONTH	15.7	6.3	10.8	---	---	---	21.6	12.2	16.7	---	---	---

MALAD RIVER BASIN

13141500 CAMAS CREEK NEAR BLAINE, ID

LOCATION.--43°19'59", long 114°32'27", in NW¼SE¼ sec.15, T.1 S., R.16 E., Camas County, Hydrologic Unit 17040220, 0.2 mi downstream from Willow Creek, 2.6 mi upstream from maximum flow line of Magic Reservoir, 4 mi southeast of Blaine, and at mile 7.0.

DRAINAGE AREA.--648 mi^2. Mean elevation, 5,600 ft.

PERIOD OF RECORD.--May 1912 to September 1921 and April 1923 to October 1925 (fragmentary), March 1926 to September 1944 (no winter records), October 1944 to current year. Published as "Malad River near Blaine", 1912-14.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,870 ft above sea level, by barometer. Prior to June 22, 1966, at site 600 ft downstream at datum 0.66 ft lower.

REMARKS.--Records good except for daily discharges Mar. 20 to June 21, which are fair, and estimated daily discharges, which are poor. Flow regulated by Mormon Reservoir on McKinney Creek, capacity, 31,240 acre-feet, and three minor reservoirs, combined capacity, 580 acre-feet. Diversions above station for irrigation of about 9,400 acres, of which about 1,500 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 9,780 ft^3/s Apr. 8, 1943; maximum gage height, 16.2 ft, Feb. 3, 1963, from floodmark, site and datum then in use; minimum, 1.0 ft^3/s June 6, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 26	1245	956	6.37	Apr. 21	2200	*3,400	10.74
				May 2	1315	2,160	8.41

Minimum daily, 4.6 ft^3/s Aug. 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	12	21	56	64	33	36	360	1620	503	104	8.4	7.6
2	12	21	59	51	34	36	340	2000	484	96	8.0	7.9
3	14	21	62	52	34	37	341	1960	503	97	9.9	7.6
4	13	21	65	e50	34	36	379	1760	506	90	9.5	6.4
5	12	22	39	e50	32	33	422	1500	456	85	9.8	5.5
6	14	22	39	51	36	34	442	1260	418	79	8.4	5.6
7	13	24	36	49	37	41	621	1070	391	71	8.3	6.6
8	12	25	35	46	35	39	884	958	356	64	8.2	7.0
9	12	24	27	45	35	40	963	904	324	55	7.7	6.0
10	12	22	28	43	33	39	792	833	284	52	7.3	5.9
11	13	31	29	48	29	40	812	775	257	48	8.2	5.7
12	13	28	30	48	31	39	975	718	244	39	7.9	6.6
13	13	30	33	46	33	41	1400	686	226	34	7.7	6.2
14	14	31	38	45	33	45	1730	660	224	30	7.6	5.3
15	14	33	39	46	30	49	1880	632	225	26	7.5	5.3
16	13	33	36	44	32	51	2000	613	230	24	7.5	4.8
17	13	35	35	44	31	53	2170	577	250	21	7.4	4.9
18	12	34	33	43	30	56	2410	541	256	20	6.6	5.3
19	15	31	25	42	30	62	2790	526	246	19	6.7	5.4
20	14	28	24	44	27	73	3110	517	233	17	6.2	5.4
21	16	34	21	41	29	102	3260	525	220	14	6.1	5.6
22	17	54	19	38	26	121	2850	542	221	15	6.4	5.6
23	21	53	17	33	28	161	2190	562	203	13	6.1	5.7
24	18	74	17	27	28	335	1770	580	184	11	6.0	5.7
25	18	60	18	26	30	545	1560	598	172	11	5.3	5.3
26	19	57	21	e24	29	822	1520	618	159	10	4.6	5.6
27	19	51	22	e24	29	816	1510	601	147	10	5.0	6.0
28	20	51	24	e26	32	732	1620	568	138	10	6.0	6.4
29	20	53	24	e28	---	559	1740	564	126	11	6.9	7.4
30	20	58	43	30	---	483	1590	602	118	9.9	6.6	10
31	20	---	79	36	---	456	---	559	---	8.6	7.2	---
TOTAL	468	1082	1073	1284	880	6012	44431	26429	8304	1194.5	225.0	184.3
MEAN	15.1	36.1	34.6	41.4	31.4	194	1481	853	277	38.5	7.26	6.14
MAX	21	74	79	64	37	822	3260	2000	506	104	9.9	10
MIN	12	21	17	24	26	33	340	517	118	8.6	4.6	4.8
AC-FT	928	2150	2130	2550	1750	11920	88130	52420	16470	2370	446	366

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1999, BY WATER YEAR (WY)

MEAN	10.8	19.2	31.0	32.8	78.3	283	1003	400	155	27.3	6.18	5.72
MAX	40.4	82.7	451	301	1117	1806	3552	1552	621	165	39.5	31.9
(WY)	1966	1984	1965	1997	1963	1986	1943	1983	1983	1983	1965	1965
MIN	1.63	2.40	2.91	5.25	6.81	23.1	19.0	3.42	1.27	1.32	1.39	1.54
(WY)	1993	1993	1993	1993	1993	1955	1977	1992	1992	1992	1992	1991

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1912 - 1999	
ANNUAL TOTAL	83657.7		91566.8			
ANNUAL MEAN	229		251		181	
HIGHEST ANNUAL MEAN					449	1983
LOWEST ANNUAL MEAN					13.2	1977
HIGHEST DAILY MEAN	1390	Apr 5	3260	Apr 21	9080	Apr 8 1943
LOWEST DAILY MEAN	5.8	Sep 4	4.6	Aug 26	1.2	Jun 11 1992
ANNUAL SEVEN-DAY MINIMUM	6.2	Sep 3	5.2	Sep 14	1.2	Jun 18 1992
ANNUAL RUNOFF (AC-FT)	165900		181600		131400	
10 PERCENT EXCEEDS	774		749		454	
50 PERCENT EXCEEDS	32		35		20	
90 PERCENT EXCEEDS	10		6.8		3.0	

e Estimated

MALAD RIVER BASIN

13142000 MAGIC RESERVOIR NEAR RICHFIELD, ID

LOCATION.--Lat 43°15'19", long 114°21'25", in SE¼NE¼NE¼ sec.18, T.2 S., R.18 E., Blaine County, Hydrologic Unit 17040219, at Magic Dam on Big Wood River, 18 mi northwest of Richfield, and at mile 67.5.

DRAINAGE AREA.--1,600 mi^2, approximately.

PERIOD OF RECORD.--February 1909 to current year. Month-end contents only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is Idaho Irrigation Co. datum, which is reported to be about 137 ft below sea level. Datum of gages prior to Oct. 1, 1942 was 4,000 ft lower. Datum of gages Oct. 1, 1942 to Sept. 30, 1974, was 800 ft higher; Oct. 1, 1974 to Sept. 30, 1988 was 4,000 ft lower.

REMARKS.--Reservoir is formed by earth and rock-fill dam completed in 1909 and raised 5 ft in 1917. Capacity is 191,500 acre-ft between gage heights 821.4 ft, 2.9 ft above bottom of outlet pipe, and 935.0 ft, top of 5-ft flashboards. Dead storage unknown. Water is used for power generation and irrigation of about 68,000 acres of land in Carey Act project of Big Wood Canal Co. Powerhouse was installed Dec. 1988. Diversions above station for irrigation of about 32,600 acres, of which about 1,900 acres are irrigated by withdrawals from ground water (1966 determination). Figures given herein represent usable contents, including bank storage.

COOPERATION.--Stage readings and capacity table provided by Water District 37.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 195,400 acre-ft May 11-13, 1969, elevation, 4,936.0 ft, present datum; no storage for several days in 1909, 1919-20, 1924, 1928, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 190,300 acre-ft June 17, 18, 25, elevation, 4,934.7 ft; minimum contents observed, 80,900 acre-ft Sept. 30, elevation, 4,896.9 ft.

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

4,905	99,400
4,920	139,000
4,936	195,000

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	105300	---	120000	---	135700	118400	101600	180000	186100	188400	160300	117100
2	104500	113200	120300	---	135900	116800	102000	180300	185700	188400	158600	115500
3	104000	112900	120800	---	135900	115300	102800	181100	185700	188000	156900	114500
4	---	112400	121400	129400	136200	113400	103800	181100	186100	187600	155600	113200
5	102800	112100	121700	129700	136500	111900	104800	180700	185700	187600	154000	---
6	102500	111900	122200	129900	136800	110300	105500	180300	185300	187200	153300	110800
7	103000	111300	122500	129900	137100	108300	106800	180000	184900	186800	152000	109600
8	103500	---	123000	130200	137400	106800	108500	179200	185700	186400	150700	108000
9	103800	109800	123600	130500	137700	105500	111100	179600	186100	186100	149100	106500
10	104500	109800	123800	130500	137400	104300	113200	178500	186100	185700	147800	105300
11	105300	110300	124100	130800	136800	103300	115000	178100	185700	184900	146200	104000
12	106000	110600	---	131100	136500	102000	116800	178100	186100	184100	144700	102500
13	106300	110800	---	131400	136200	101100	119500	178100	186400	183400	143500	101600
14	106500	111300	124700	131400	135900	100300	123000	177400	186400	182600	141900	100300
15	107000	111900	124900	131600	135400	99400	126600	177400	187200	181700	140700	99100
16	107300	112100	125200	131600	134800	98400	130500	177400	188400	180700	139200	97700
17	107500	112600	125200	131900	134200	97200	134800	177000	190300	179600	137700	96500
18	108000	113200	125500	132200	133300	96300	139500	176600	190300	178500	136500	95300
19	108300	113700	125500	132500	132500	95600	145300	177000	189200	177400	135100	93900
20	108500	113900	125800	132800	---	94800	152000	177400	188800	175900	133600	92800
21	108800	114500	125800	133100	---	94400	157600	177700	188400	174800	132200	91600
22	109300	115000	125800	133300	---	94100	163000	178500	188400	173700	130800	90500
23	109600	115500	125800	133600	127400	94400	167200	180000	189200	172600	129400	89300
24	109800	116000	126000	133900	126300	94800	170100	181500	189900	171600	128300	88200
25	110300	116800	126000	134200	124900	96300	171900	183700	190300	171900	126600	86800
26	110600	---	126300	134500	123300	98400	173700	185700	189900	168700	125200	---
27	110800	117600	126600	134500	121700	100600	175200	187600	---	167600	124100	84400
28	111100	118200	126900	134800	120000	101800	177400	186600	188800	166200	122700	83300
29	111300	119000	129900	134800	---	102300	179200	186400	188400	164800	121400	82200
30	111900	119500	127400	135100	---	102300	180000	186800	188800	163400	120000	80900
31	e112400	---	e127700	135400	---	101800	---	186800	---	e162000	118700	---
MAX	---	---	---	---	---	118400	180000	187600	---	188400	160300	---
MIN	---	---	---	---	---	94100	101600	176600	---	162000	118700	---
†	---	912.9	---	918.6	913.1	906.0	932.0	933.8	934.3	---	912.6	896.9
‡	6600	7100	8200	7700	-15400	-18200	78200	6800	2000	-26800	-43300	-37800

CAL YR 1998 ‡ -16700
WTR YR 1999 ‡ -24900

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.
e Estimated

MALAD RIVER BASIN

13142500 BIG WOOD RIVER BELOW MAGIC DAM, NEAR RICHFIELD, ID

LOCATION.--Lat 43°15'00", long 114°21'30", in NE¼SE¼ sec.18, T.2 S., R.18 E., Blaine County, Hydrologic Unit 17040219, U.S. Bureau of Land Management lands, on right bank, 0.5 mi downstream from Magic Dam, 18 mi northwest of Richfield, and at mile 67.0.

DRAINAGE AREA.--1,600 mi^2, approximately.

PERIOD OF RECORD.--April 1911 to current year (no winter records 1912).

GAGE.--Water-stage recorder. Datum of gage is 4,661.6 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Magic Reservoir 0.5 mi upstream (see sta 13142000), Mormon Reservoir on tributary of Camas Creek (capacity, 31,240 acre-ft), and smaller reservoirs having combined capacity of about 680 acre-ft. Diversions above station for irrigation of about 32,600 acres, of which about 1,900 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft^3/s Apr. 26, 1952, gage height, 15.68 ft, from floodmark; no flow Feb. 3, 1915, Dec. 21-23, 1988, Nov. 18-21, Dec. 9, 10, 1992, Oct. 19-22, 26, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,910 ft^3/s June 18, gage height, 8.30 ft; minimum daily, 6.3 ft^3/s Nov. 12-15, 17-19.

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	601	12	6.8	11	8.4	1010	728	2360	2730	1150	903	858
2	554	138	6.8	11	8.5	1000	327	2720	2550	1080	902	843
3	525	429	7.1	11	8.6	1000	327	2970	2600	1080	898	835
4	525	467	7.4	11	8.9	1000	334	2880	2650	1080	897	834
5	360	515	7.2	11	8.7	1010	331	2440	2530	1090	903	827
6	10	541	7.3	9.1	9.2	1000	338	2280	2350	1070	886	831
7	10	539	7.3	7.4	9.2	994	329	2070	1890	1010	903	815
8	10	539	8.5	6.9	9.1	999	329	1920	1750	1010	899	802
9	11	352	7.9	7.0	244	819	327	1840	1750	1010	876	805
10	11	7.5	7.9	7.1	388	699	328	1750	1580	963	872	809
11	11	7.8	7.7	7.5	392	700	331	1670	1400	1030	872	790
12	12	6.6	7.3	8.5	395	703	333	1590	1340	1020	874	783
13	12	6.3	7.2	8.6	397	701	329	1530	1350	1010	874	771
14	11	6.6	7.7	8.3	396	704	331	1450	1350	1010	874	764
15	12	6.7	7.7	8.2	396	673	327	1410	1370	1010	874	767
16	12	6.8	7.7	8.0	528	695	335	1380	1620	1010	874	773
17	12	6.8	7.9	8.1	609	699	337	1330	2730	1000	874	768
18	12	6.9	8.7	8.7	609	699	342	1120	3570	999	874	763
19	13	6.8	8.7	8.6	719	675	347	985	3270	979	873	770
20	13	6.8	8.7	8.5	814	699	850	988	3030	962	871	771
21	13	6.8	8.7	7.8	792	702	1240	989	2430	922	872	755
22	12	7.2	8.7	8.1	802	698	1300	980	1880	912	872	741
23	12	7.2	8.7	8.3	801	700	1310	976	1810	904	873	739
24	13	7.0	8.7	8.7	906	705	1320	974	1860	896	872	740
25	13	7.2	8.7	8.5	1000	700	1320	1220	1880	890	844	746
26	13	7.6	8.2	8.6	1010	774	1330	1770	1790	883	845	741
27	13	7.7	8.0	8.7	1000	986	1330	2730	1690	885	852	740
28	12	7.7	8.7	8.7	1010	986	1500	3060	1500	879	853	725
29	12	7.3	9.1	8.7	---	982	1990	2910	1330	874	854	714
30	12	6.8	10	8.6	---	983	2210	3070	1270	874	854	718
31	12	---	11	8.8	---	984	---	3040	---	893	831	---
TOTAL	2874	3680.1	252.0	269.0	13278.6	25679	22410	58402	60850	30385	27095	23338
MEAN	92.7	123	8.13	8.68	474	828	747	1884	2028	980	874	778
MAX	601	541	11	11	1010	1010	2210	3070	3570	1150	903	858
MIN	10	6.3	6.8	6.9	8.4	673	327	974	1270	874	831	714
AC-FT	5700	7300	500	534	26340	50930	44450	115800	120700	60270	53740	46290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1999, BY WATER YEAR (WY)

MEAN	65.8	61.8	32.8	38.0	74.3	214	612	1289	1338	915	672	453
MAX	1053	165	591	767	1130	1970	3918	3806	3579	1916	1314	826
(WY)	1912	1914	1984	1965	1997	1986	1943	1952	1911	1995	1923	1916
MIN	.37	.47	.52	.75	.56	1.42	2.50	242	88.5	64.9	19.6	.63
(WY)	1992	1993	1993	1992	1995	1995	1991	1991	1992	1992	1988	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1911 - 1999	
ANNUAL TOTAL	267635.8		268512.7			
ANNUAL MEAN	733		736		480	
HIGHEST ANNUAL MEAN					1215	1983
LOWEST ANNUAL MEAN					76.2	1992
HIGHEST DAILY MEAN	2850	May 17	3570	Jun 18	9800	Apr 26 1952
LOWEST DAILY MEAN	6.3	Nov 13	6.3	Nov 13	.00	Feb 3 1915
ANNUAL SEVEN-DAY MINIMUM	6.7	Nov 12	6.7	Nov 12	.03	Oct 19 1994
ANNUAL RUNOFF (AC-FT)	530900		532600		348100	
10 PERCENT EXCEEDS	2050		1750		1280	
50 PERCENT EXCEEDS	648		740		66	
90 PERCENT EXCEEDS	7.9		7.7		3.7	

MALAD RIVER BASIN

13147900 LITTLE WOOD RIVER ABOVE HIGH FIVE CREEK, NEAR CAREY, ID

LOCATION.--Lat 43°29'30", long 114°03'30", about center of sec.22, T.2 N., R.20 E., Blaine County, Hydrologic Unit 17040221, on left bank above maximum flow line of Little Wood Reservoir, 0.4 mi downstream from Muldoon Creek, 0.6 mi upstream from High Five Creek, 13.5 mi northwest of Carey, and at mile 83.0.

DRAINAGE AREA.--248 mi^2. Mean elevation, 7,220 ft.

PERIOD OF RECORD.--October 1958 to September 1974, October 1979 to current year (no winter record in water year 1982).

GAGE.--Water-stage recorder. Elevation of gage is 5,320 ft above sea level, by barometer.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 1,300 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,480 ft^3/s Apr. 22, 1969, gage height, 7.01 ft; minimum, 12 ft^3/s Sept. 7-10, 1994, gage height, 0.74 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 660 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 19	2230	*1,050	*4.74	May 29	1730	907	4.43
May 1	1345	684	3.88	June 18	0215	758	4.07

Minimum daily, 46 ft^3/s Sept. 24-26.

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	69	81	86	e100	e65	79	165	622	589	325	88	63
2	69	81	86	e95	e70	77	156	639	653	315	87	63
3	70	79	94	e90	73	75	155	569	688	281	89	62
4	71	80	94	e85	72	72	154	496	632	256	90	63
5	69	83	67	e80	74	74	150	439	595	241	88	60
6	72	83	e65	75	74	e75	154	411	589	235	84	58
7	75	82	e65	72	66	81	183	421	539	261	83	56
8	74	85	e60	79	58	76	204	429	488	255	81	56
9	73	e80	e60	85	66	75	193	419	446	226	79	55
10	72	86	e65	71	e60	73	176	390	414	217	77	53
11	72	83	73	74	e60	72	181	357	392	212	79	54
12	75	80	76	71	e55	75	220	333	397	203	78	55
13	76	82	80	69	e60	74	328	328	439	199	76	54
14	77	84	79	70	e60	77	405	301	501	187	74	54
15	74	87	75	69	e65	81	401	291	568	168	72	51
16	75	86	76	69	e75	84	425	294	653	151	70	49
17	75	85	79	71	87	84	518	282	714	147	69	48
18	78	83	68	74	88	87	637	280	694	139	65	48
19	76	77	64	70	87	101	763	312	668	136	66	48
20	76	76	e60	71	89	128	759	367	633	134	66	48
21	75	88	e55	69	88	155	618	433	605	127	67	48
22	77	100	e50	72	89	153	474	509	531	122	67	48
23	82	89	e50	70	88	167	425	582	480	114	63	47
24	80	92	e50	72	86	187	430	667	456	111	62	46
25	79	86	e55	e65	75	234	471	732	444	102	64	46
26	79	83	e70	e60	72	311	504	758	405	99	62	46
27	78	84	e80	e60	75	290	502	774	366	97	61	48
28	77	89	e95	66	75	231	536	750	339	95	62	49
29	77	88	e120	e60	---	198	476	878	327	105	61	49
30	76	87	e130	e60	---	182	466	834	322	95	61	49
31	76	---	e120	e60	---	174	---	685	---	90	64	---
TOTAL	2324	2529	2347	2254	2052	3902	11229	15582	15567	5445	2255	1574
MEAN	75.0	84.3	75.7	72.7	73.3	126	374	503	519	176	72.7	52.5
MAX	82	100	130	100	89	311	763	878	714	325	90	63
MIN	69	76	50	60	55	72	150	280	322	90	61	46
AC-FT	4610	5020	4660	4470	4070	7740	22270	30910	30880	10800	4470	3120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1999, BY WATER YEAR (WY)

MEAN	59.6	64.6	59.2	60.6	62.0	118	348	445	405	167	66.7	53.3
MAX	110	166	146	207	150	374	1108	1151	889	498	177	101
(WY)	1984	1984	1984	1997	1963	1986	1969	1969	1983	1995	1965	1965
MIN	23.5	31.9	36.8	36.0	41.4	47.3	71.7	108	68.1	30.4	17.2	15.0
(WY)	1989	1995	1990	1995	1960	1962	1994	1990	1992	1988	1994	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1959 - 1999	
ANNUAL TOTAL	70579		67060			
ANNUAL MEAN	193		184		158	
HIGHEST ANNUAL MEAN					325	1983
LOWEST ANNUAL MEAN					58.7	1988
HIGHEST DAILY MEAN	692	May 11	878	May 29	2150	Apr 23 1969
LOWEST DAILY MEAN	50	Dec 22	46	Sep 24	13	Aug 26 1994
ANNUAL SEVEN-DAY MINIMUM	55	Dec 19	47	Sep 20	13	Sep 5 1994
ANNUAL RUNOFF (AC-FT)	140000		133000		114500	
10 PERCENT EXCEEDS	536		501		431	
50 PERCENT EXCEEDS	83		83		71	
90 PERCENT EXCEEDS	60		60		37	

e Estimated

MALAD RIVER BASIN

13148200 LITTLE WOOD RESERVOIR NEAR CAREY, ID

LOCATION.--Lat 43°25'30", long 114°01'30", in SW¼ sec.12, T.1 N., R.20 E., Blaine County, Hydrologic Unit 17040221, at gate-control structure near right end of Little Wood Dam on Little Wood River, 8.5 mi northwest of Carey, and at mile 78.8.

DRAINAGE AREA.--279 mi^2.

PERIOD OF RECORD.--October 1955 to current year.

REVISED RECORDS.--WDR-ID-92-1: 1991.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by U.S. Bureau of Reclamation). Prior to April 1983, nonrecording gage at same site and datum. Prior to Oct. 1, 1988 at datum 5,100 ft lower.

REMARKS.--Station equipment includes satellite telemetry. Reservoir is formed by earth- and rock-fill dam constructed in 1939 and raised 39.9 ft in 1959. Storage began Feb. 12, 1941. Capacity of reservoir is 29,960 acre-ft between elevations 5,127.4 ft, 0.4 ft below bottom of outlet gates, and 5,237.3 ft, spillway crest. Water is used for power generation and irrigation of land near Carey.

COOPERATION.--Gage readings and capacity table provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 30,940 acre-ft June 10, 1963, elevation, 5,238.99 ft, present datum; minimum observed, 66 acre-ft Aug. 17, 1959, elevation, 5,130.22 ft, present datum, but may have been less during period Aug. 14 to Sept. 13, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum observed contents, 30,100 acre-ft June 13, 14, 25; maximum elevation, 5,237.56 ft, June 14; minimum observed contents, 5,940 acre-ft Sept. 30, elevation, 5,178.26 ft.

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

5,180.0	6,370	5,200.0	12,500
5,190.0	9,160	5,220.0	20,900
		5,240.0	31,500

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	8310	10200	15300	19400	23400	20800	7540	20800	29200	29600	18800	10100
2	8370	10300	15400	19500	23500	20300	7420	21500	29300	29500	18400	9970
3	8410	10500	15600	19600	23600	19800	7310	22000	29500	29300	18100	9820
4	8440	10700	15800	19700	23800	19300	7190	22400	29500	29100	17700	9720
5	8490	10800	15900	19800	23900	18700	7000	22500	29500	28900	17400	9580
6	8490	11000	16000	20000	24100	18200	6800	22400	29500	28600	17000	9430
7	8500	11200	16100	20100	24200	17700	6600	22400	29400	28400	16600	9280
8	8830	11300	16300	20300	24300	17200	6560	22300	29600	28200	16200	9140
9	8560	11500	16400	20400	24300	16700	6440	22300	29800	28000	15900	8940
10	8590	11600	16500	20500	24200	16200	6350	22300	29900	27700	15600	8730
11	8630	11800	16600	20600	24100	15400	6240	22400	29900	27400	15300	8500
12	8660	11900	16800	20800	24000	14600	6130	22400	30000	27100	15000	8290
13	8720	12100	17000	20900	24000	15000	6180	22400	30100	26800	14800	8140
14	8660	12200	17100	21000	24000	13200	6500	22300	30100	26500	14500	7930
15	8790	12400	17300	21200	24000	12500	7160	22200	30000	26200	14200	7720
16	8920	12600	17400	21300	23900	11900	7160	22200	30000	25800	14000	7560
17	8970	12700	17500	21400	23800	11200	7590	22000	30000	25400	13700	7430
18	9020	12900	17700	21600	23700	10500	8070	22000	30000	25000	13500	7300
19	9100	13100	17700	21700	23500	9780	9010	22000	29900	24600	13400	7140
20	9170	13200	17800	21900	23300	9080	10100	22000	29800	24200	13100	6970
21	9240	13400	17900	22000	23100	8790	11200	22200	29800	23700	12800	6830
22	9320	13700	18000	22100	22900	8620	11900	22500	29900	23300	12600	6730
23	9410	13800	18000	22300	22700	8450	13400	23000	30000	22900	12300	6640
24	9500	14100	18200	22400	22500	8310	14200	23700	30000	22400	11800	6860
25	9600	14200	18300	22400	22100	8260	15200	24600	30100	22000	11700	6810
26	9680	14400	18500	22600	21800	8220	16300	25400	30000	21500	11400	6240
27	9750	14500	18600	22800	21500	8240	17400	26400	29900	21000	11200	6140
28	9830	14700	18800	22900	21200	8100	18600	27300	29900	20600	10900	6030
29	9920	14900	18900	23000	---	7960	19600	28400	29800	20100	10700	5980
30	10000	15100	19100	23100	---	7850	20100	29000	29700	19700	10500	5940
31	10100	---	19200	23200	---	7700	---	29200	---	19200	10300	---
MAX	10100	15100	19200	23200	24300	20800	20100	29200	30100	29600	18800	10100
MIN	8310	10200	15300	19400	21200	7700	6130	20800	29200	19200	10300	5940
†	5192.97	5206.90	5216.49	5224.81	5220.70	5185.00	5218.40	5235.95	5236.82	5216.43	5193.70	5178.26
‡	1810	5000	4100	4000	-2000	-13500	12400	9100	500	-10500	-8900	-4360

CAL YR 1998 ‡ 1000
WTR YR 1999 MAX 30100MIN 5940‡ 2350

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

MALAD RIVER BASIN

13148500 LITTLE WOOD RIVER NEAR CAREY, ID

LOCATION.--Lat 43°23'20", long 114°00'00", in E½ sec.30, T.1 N., R.21 E., Blaine County, Hydrologic Unit 17040221, on right bank, 0.3 mi upstream from West Canal, 1.3 mi upstream from East Canal, 2 mi downstream from Little Fish Creek, 3 mi downstream from Little Wood Reservoir, 6 mi northwest of Carey, and at mile 75.5.

DRAINAGE AREA.--312 mi^2.

PERIOD OF RECORD.--April 1904 to May 1905 (gage heights and discharge measurements only), September 1926 to November 1942, April 1943 to current year. Monthly discharge only for some periods, published in WSP 1317. Records for February 1920 to September 1926 at site 6 mi upstream not equivalent owing to diversion and inflow.

GAGE.--Water-stage recorder. Datum of gage is 4,990.59 ft above sea level (levels by U.S. Bureau of Reclamation). Apr. 28, 1904 to May 31, 1905, nonrecording gage, Sept. 20, 1926 to Apr. 22, 1938, water-stage recorder, and Apr. 23 to Aug. 17, 1938, nonrecording gage, all at datum 0.74 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Little Wood Reservoir 3 mi upstream (see sta 13148200). Diversions above station for irrigation of about 1,500 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft^3/s , due to failure of reservoirs on Little Fish Creek Apr. 24, 1982, gage height, 16.74 ft; maximum discharge prior to Apr. 24, 1982, 6,000 ft^3/s, due to failure of reservoirs on Little Fish Creek Apr. 20, 1938, gage height, 12.81 ft (present datum, from floodmark), from rating curve extended above 1,800 ft^3/s; maximum discharge other than dam failures, 2,680 ft^3/s Apr. 27, 1952, gage height, 8.95 ft. Minimum daily, 0.90 ft^3/s Nov. 4, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 796 ft^3/s June 16, 18, gage height, 4.35 ft; minimum daily, 3.0 ft^3/s Dec. 18-24, 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	54	30	4.3	3.7	e5.0	256	262	458	676	375	312	155
2	54	7.9	4.2	e3.5	e5.5	307	297	442	687	380	288	138
3	54	4.3	4.4	e3.5	5.6	321	299	434	689	380	284	121
4	54	3.5	4.5	e3.5	5.4	316	299	411	689	379	278	133
5	57	3.5	4.0	3.9	e5.0	313	300	489	684	378	258	132
6	72	3.4	3.9	3.9	e5.5	311	304	529	668	377	306	131
7	66	3.6	e4.0	3.9	7.8	310	320	530	642	376	272	131
8	62	3.9	3.9	e3.5	36	307	327	539	474	375	261	150
9	62	3.6	4.2	e3.5	125	302	320	533	411	373	254	156
10	60	3.3	3.9	4.1	92	299	310	464	391	370	253	161
11	56	3.4	3.6	4.0	91	391	314	416	391	368	228	166
12	52	3.2	3.5	4.1	91	457	326	407	387	366	210	150
13	48	3.4	4.5	4.1	90	451	355	408	406	366	210	149
14	48	3.4	4.2	4.2	90	452	345	382	523	366	209	146
15	48	3.4	3.6	5.4	90	461	336	371	651	376	208	139
16	48	3.4	e3.5	4.8	102	467	341	370	720	362	197	126
17	48	3.4	e3.5	e4.5	118	463	360	367	767	362	188	123
18	46	3.4	e3.0	e4.5	131	441	385	344	768	362	188	121
19	43	3.3	e3.0	e4.5	154	463	429	327	765	359	199	130
20	42	3.2	e3.0	e5.0	179	367	465	349	731	357	210	128
21	42	4.2	e3.0	e4.5	187	310	460	366	626	355	209	104
22	39	5.8	e3.0	e4.5	159	322	220	367	514	355	209	98
23	39	4.8	e3.0	e4.5	163	324	87	363	475	352	208	105
24	39	4.9	e3.0	e3.5	193	327	110	306	418	353	207	112
25	39	4.3	e3.5	e3.5	218	364	124	331	418	357	206	112
26	39	4.0	3.9	e4.5	220	424	118	360	438	351	203	110
27	40	3.9	3.0	e4.0	246	415	100	323	413	345	190	93
28	40	4.2	5.4	e4.0	198	358	96	301	386	352	182	83
29	40	4.5	4.5	e4.0	---	311	79	362	373	347	182	74
30	41	4.5	3.8	e4.0	---	296	275	608	372	345	172	74
31	40	---	3.8	e5.0	---	296	---	677	---	345	165	---
TOTAL	1512	145.6	116.6	128.1	3012.8	11202	8363	12934	16553	11264	6946	3751
MEAN	48.8	4.85	3.76	4.13	108	361	279	417	552	363	224	125
MAX	72	30	5.4	5.4	246	467	465	677	768	380	312	166
MIN	39	3.2	3.0	3.5	5.0	256	79	301	372	345	165	74
AC-FT	3000	289	231	254	5980	22220	16590	25650	32830	22340	13780	7440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1999, BY WATER YEAR (WY)

MEAN	47.0	35.6	31.7	33.6	40.4	95.7	323	436	382	245	144	70.4
MAX	205	290	170	383	316	470	1105	1154	878	492	315	180
(WY)	1966	1984	1984	1997	1997	1983	1969	1969	1995	1995	1975	1984
MIN	3.64	1.05	1.17	1.41	2.00	2.87	7.41	79.0	39.9	13.6	7.17	5.41
(WY)	1983	1992	1992	1991	1955	1955	1988	1934	1934	1931	1934	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1927 - 1999	
ANNUAL TOTAL	77259.8		75928.1			
ANNUAL MEAN	212		208		157	
HIGHEST ANNUAL MEAN					351	1983
LOWEST ANNUAL MEAN					45.6	1934
HIGHEST DAILY MEAN	922	May 14	768	Jun 18	2900	Apr 19 1938
LOWEST DAILY MEAN	3.0	Dec 18	3.0	Dec 18	.90	Nov 4 1991
ANNUAL SEVEN-DAY MINIMUM	3.0	Dec 18	3.0	Dec 18	.97	Nov 3 1991
ANNUAL RUNOFF (AC-FT)	153200		150600		113600	
10 PERCENT EXCEEDS	507		446		415	
50 PERCENT EXCEEDS	95		172		68	
90 PERCENT EXCEEDS	3.9		3.6		4.5	

e Estimated

MALAD RIVER BASIN

13150430 SILVER CREEK AT SPORTSMAN ACCESS, NEAR PICABO, ID

LOCATION.--Lat 43°19'22", long 114°06'29", in SE¼NW¼ sec.20, T.1 S., R.20 E., Blaine County, Hydrologic Unit 17040221, on right bank, at sportsman access road crossing to campground, 0.6 mi downstream from State Highway 20/23 crossing, 2.3 mi northwest of Picabo, and 4.3 mi southeast of Gannett.

DRAINAGE AREA.--70 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,850 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 566 ft^3/s Apr. 10, 1985, gage height, 8.82 ft; minimum daily, 45 ft^3/s Sept. 30, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 350 ft^3/s Mar. 27; minimum daily, 101 ft^3/s July 11-14.

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	167	187	214	171	169	174	241	184	147	135	125	187
2	164	188	210	167	169	174	231	197	150	134	132	180
3	163	187	207	164	167	174	233	198	174	134	140	188
4	166	189	203	163	169	172	234	186	183	129	149	195
5	172	191	189	162	170	169	228	176	181	128	158	185
6	188	192	194	162	173	170	224	173	178	125	163	172
7	194	193	186	162	181	171	236	172	179	119	165	164
8	186	200	183	160	175	168	252	170	185	109	161	161
9	187	195	180	161	183	170	252	166	187	112	160	156
10	184	195	177	160	e180	166	231	164	184	109	155	158
11	184	195	176	161	e170	167	222	165	175	101	154	152
12	184	195	175	162	e170	166	221	165	167	107	148	143
13	183	195	175	161	171	166	222	165	163	107	150	142
14	185	196	177	162	173	168	216	163	161	101	155	138
15	190	201	176	169	172	171	205	164	171	107	161	148
16	190	201	175	170	173	173	196	167	172	106	154	158
17	190	201	175	166	178	173	189	164	170	102	148	150
18	188	198	172	171	170	175	185	156	167	104	152	137
19	186	193	e170	170	174	181	182	142	168	107	153	133
20	186	187	e160	173	168	193	180	136	166	110	159	129
21	186	196	e160	173	176	230	176	136	165	112	168	132
22	187	210	e160	165	176	251	173	132	153	110	165	133
23	187	223	e160	173	173	261	171	131	156	112	165	131
24	185	227	e160	167	170	274	170	129	155	113	175	126
25	184	225	e160	171	171	304	170	113	152	116	174	120
26	184	216	162	167	169	333	169	121	149	119	170	123
27	183	207	160	168	169	350	167	131	150	123	175	121
28	183	207	172	168	171	304	171	128	146	125	167	125
29	183	217	169	169	---	266	175	123	141	122	177	129
30	184	217	171	169	---	249	174	130	137	121	182	125
31	186	---	173	170	---	246	---	141	---	123	185	---
TOTAL	5669	6024	5481	5157	4830	6509	6096	4788	4932	3582	4945	4441
MEAN	183	201	177	166	172	210	203	154	164	116	160	148
MAX	194	227	214	173	183	350	252	198	187	135	185	195
MIN	163	187	160	160	167	166	167	113	137	101	125	120
AC-FT	11240	11950	10870	10230	9580	12910	12090	9500	9780	7100	9810	8810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1999, BY WATER YEAR (WY)

MEAN	174	175	163	154	161	194	175	133	129	125	150	155
MAX	270	248	210	219	241	325	288	190	182	224	255	256
(WY)	1983	1977	1983	1997	1986	1983	1975	1983	1997	1975	1983	1983
MIN	73.0	89.0	92.5	95.5	111	135	95.6	83.1	70.1	73.6	65.9	62.2
(WY)	1995	1993	1995	1995	1993	1991	1992	1992	1992	1992	1994	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1975 - 1999	
ANNUAL TOTAL	66732		62454			
ANNUAL MEAN	183		171		157	
HIGHEST ANNUAL MEAN					222	1983
LOWEST ANNUAL MEAN					107	1992
HIGHEST DAILY MEAN	417	Mar 25	350	Mar 27	530	Apr 10 1985
LOWEST DAILY MEAN	125	Jul 24	101	Jul 11	45	Sep 30 1994
ANNUAL SEVEN-DAY MINIMUM	133	Jul 7	104	Jul 11	51	Sep 27 1994
ANNUAL RUNOFF (AC-FT)	132400		123900		113900	
10 PERCENT EXCEEDS	210		207		219	
50 PERCENT EXCEEDS	179		170		154	
90 PERCENT EXCEEDS	159		127		96	

e Estimated

MALAD RIVER BASIN

13150430 SILVER CREEK AT SPORTSMAN ACCESS, NEAR PICABO, ID

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-1981, 1990, 1993, April to September 1996, April to September 1997, April to September 1999 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 12 to August 23, 1999 (discontinued).

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 21.9 °C July 11.

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)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
14...	0915	219	421	8.0	4.0	4.6	4.5	11.1	102	K34	110
MAY											
12...	0830	165	402	8.1	7.0	7.1	10	8.9	89	32	28
JUN											
18...	0845	163	375	8.1	18.0	14.7	1.5	7.3	87	66	100
JUL											
16...	0930	108	383	8.1	14.0	13.2	2.0	6.5	74	63	81
AUG											
18...	0815	151	373	7.9	13.0	14.4	.33	5.3	62	41	66
SEP											
14...	1030	141	373	8.1	20.0	12.0	.43	8.0	89	37	39

DATE	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)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC, UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
14...	190	55	13	4.9	5	1.1	210	0

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
14...	170	16	3.2	.24	14	213	.29	81.1

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 TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
14...	<.010	.737	.045	.32	E.035	.010	16	9.5
MAY								
12...	<.010	.834	.043	.31	<.050	.012	14	6.2
JUN								
18...	<.010	.598	.026	.31	E.031	.018	20	8.8
JUL								
16...	.010	.709	<.020	.22	<.050	.014	7	2.0
AUG								
18...	<.010	.623	<.020	.19	<.050	<.010	4	1.6
SEP								
14...	<.010	.628	<.020	.19	<.050	<.010	<1	--

E Positive detection but below stated detection limit.
K Results based on counts outside ideal colony range.

MALAD RIVER BASIN

13150430 SILVER CREEK AT SPORTSMAN ACCESS NEAR PICABO, ID-Continued

WATER TEMPERATURE, DEGREES CELSIUS, MAY TO AUGUST 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		MAY			JUNE			JULY			AUGUST	
1	---	---	---	17.0	12.3	14.8	17.9	13.8	16.0	18.4	16.0	17.3
2	---	---	---	15.7	11.7	13.2	17.8	13.2	15.5	19.1	16.5	17.8
3	---	---	---	12.9	10.9	11.9	18.4	13.1	15.8	18.6	16.8	17.8
4	---	---	---	17.1	9.8	13.4	17.5	14.3	16.0	19.1	16.2	17.7
5	---	---	---	17.5	12.4	15.1	18.1	11.7	14.9	20.2	16.7	18.3
6	---	---	---	15.2	11.8	13.0	20.4	14.0	17.3	18.9	16.4	17.8
7	---	---	---	15.4	9.8	12.6	20.1	16.7	18.6	17.8	16.0	16.8
8	---	---	---	14.3	11.0	12.8	19.6	13.8	16.5	18.4	14.5	16.4
9	---	---	---	15.6	9.2	12.3	20.1	14.6	17.3	19.1	15.9	17.4
10	--	---	---	16.7	10.7	14.0	20.7	15.6	18.2	17.9	15.4	16.5
11	--	---	---	17.8	11.5	14.9	21.9	16.2	19.1	17.0	14.3	15.6
12	14.1	8.1	11.7	19.2	12.6	16.2	21.2	16.8	19.1	17.5	14.8	16.2
13	13.5	8.4	11.1	18.4	14.5	16.7	21.2	16.7	19.1	18.3	15.4	16.8
14	13.7	6.9	10.4	20.4	14.1	17.3	20.2	16.4	17.7	17.5	14.9	16.3
15	11.8	7.9	9.4	21.0	15.9	18.7	17.9	13.8	16.0	17.0	14.5	15.7
16	12.0	6.9	9.5	20.5	15.6	18.3	19.1	14.0	16.5	17.1	13.7	15.4
17	15.7	7.8	11.6	19.6	15.6	18.0	19.4	15.7	17.5	18.1	14.8	16.4
18	15.2	9.6	12.7	20.4	15.1	18.1	19.6	14.9	17.4	17.8	15.6	16.8
19	17.8	9.6	13.6	19.7	16.0	18.1	20.5	16.5	18.4	19.2	16.4	17.8
20	17.0	10.4	14.1	20.5	14.5	17.8	20.5	17.5	18.9	19.2	17.0	18.2
21	18.9	11.2	15.2	19.7	15.9	17.2	20.1	16.5	18.4	19.6	16.8	18.2
22	19.7	12.1	16.1	19.1	13.5	16.2	20.4	15.9	18.1	20.1	16.8	18.3
23	20.5	13.2	17.2	19.1	13.7	16.6	20.4	16.0	18.3	19.1	17.0	18.1
24	20.5	13.5	17.4	18.6	14.6	17.0	19.4	16.8	18.1	---	---	---
25	20.2	14.1	17.4	17.8	14.1	15.8	19.1	14.8	16.9	---	---	---
26	19.4	14.3	16.8	17.0	11.4	14.3	19.9	15.6	17.6	---	---	---
27	19.1	12.8	15.9	17.0	12.9	15.1	20.2	16.5	18.4	---	---	---
28	16.8	14.0	15.6	16.5	12.6	14.7	20.5	17.6	19.0	---	---	---
29	17.5	13.8	15.7	18.3	13.1	15.6	20.5	17.1	18.8	---	---	---
30	15.4	12.0	13.6	18.6	14.1	16.5	20.2	17.6	18.7	---	---	---
31	16.5	11.2	13.8	---	---	---	19.2	15.6	17.4	---	---	---
MONTH	---	---	---	21.0	9.2	15.5	21.9	11.7	17.6	---	---	---

MALAD RIVER BASIN

13152500 MALAD RIVER NEAR GOODING, ID

LOCATION.--Lat 42°53'12", long 114°48'08", in NE¼NE¼SW¼ sec.21, T.6 S., R.14 E., Gooding County, Hydrologic Unit 17040219, on right bank, at Hudson Ranch, 3.1 mi downstream from bridge on Bliss-Gooding highway, 4.2 mi downstream from Little Wood River, 6 mi southwest of Gooding, and at mile 7.2.

DRAINAGE AREA.--2,990 mi^2, approximately.

PERIOD OF RECORD.--March 1916 to current year (fragmentary from October 1923 to September 1926; no winter records for water years 1923, 1936-37, 1942; irrigation seasons only for water years 1927-35). October 1959 to September 1984, published as "Big Wood River near Gooding".

REVISED RECORDS.--WSP 1347: 1934.

GAGE.--Water-stage recorder. Datum of gage is 3,343.50 ft above sea level. Prior to Apr. 13, 1921, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Magic Reservoir (see sta 13142000) and by several smaller reservoirs on tributaries and affected by deliveries from canals diverting from Snake River at Milner. Diversions above station for irrigation of about 144,000 acres, of which about 4,000 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,860 ft^3/s Dec. 22, 1964, gage height, 12.15 ft, from floodmarks; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,470 ft^3/s May 4, gage height, 7.45 ft; minimum daily, 38 ft^3/s Dec. 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	504	481	74	112	71	1130	628	1660	1870	311	123	255
2	403	313	83	107	62	956	574	1920	1780	256	121	271
3	396	271	81	106	76	620	293	2310	1650	187	133	302
4	423	270	82	98	70	537	261	2410	1640	199	143	358
5	425	284	81	86	64	484	270	2270	1710	211	146	364
6	425	361	60	86	95	463	247	1910	1640	220	196	384
7	494	432	64	90	96	476	193	1720	1540	241	187	377
8	401	468	98	96	103	487	191	1550	1240	153	192	389
9	351	516	e60	103	196	500	344	1430	1100	151	209	320
10	332	504	e60	97	391	421	377	1370	997	162	217	292
11	353	405	e65	97	262	290	321	1320	807	177	212	297
12	369	239	68	96	139	288	368	1130	589	164	202	324
13	377	117	84	96	89	351	419	1030	459	135	209	352
14	397	66	79	98	78	431	723	1030	413	129	228	318
15	428	58	79	75	107	520	742	954	410	156	227	257
16	484	52	121	99	137	527	621	907	428	159	214	216
17	447	60	107	136	177	498	649	847	645	152	204	204
18	410	65	109	102	198	472	657	711	1390	162	197	210
19	426	66	107	95	133	537	609	503	1940	170	195	216
20	486	69	89	133	98	730	523	338	1800	190	187	220
21	601	75	75	227	266	930	562	420	1660	202	211	218
22	588	75	e60	156	265	1130	1020	358	1280	182	216	206
23	570	77	e50	108	305	962	1110	269	851	159	225	212
24	555	82	e42	78	290	870	1030	294	734	148	233	203
25	558	80	e38	79	663	877	988	260	772	144	237	210
26	554	83	e40	81	749	812	1000	239	759	156	210	251
27	490	86	144	74	580	733	924	708	726	155	198	362
28	448	77	255	e65	673	798	909	1440	674	139	202	461
29	324	73	255	e55	---	787	1050	1700	538	133	213	436
30	501	77	240	e65	---	733	1440	1670	388	129	224	448
31	534	---	179	79	---	681	---	1850	---	126	246	---
TOTAL	14054	5882	3029	3075	6433	20031	19043	36528	32430	5358	6157	8933
MEAN	453	196	97.7	99.2	230	646	635	1178	1081	173	199	298
MAX	601	516	255	227	749	1130	1440	2410	1940	311	246	461
MIN	324	52	38	55	62	288	191	239	388	126	121	203
AC-FT	27880	11670	6010	6100	12760	39730	37770	72450	64320	10630	12210	17720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1999, BY WATER YEAR (WY)

MEAN	148	133	115	129	216	375	623	601	505	128	90.9	165
MAX	520	523	727	798	910	1920	2948	3060	2709	796	342	547
(WY)	1983	1984	1984	1965	1986	1983	1943	1983	1983	1983	1983	1985
MIN	4.23	5.19	3.42	1.93	3.79	37.1	3.77	7.41	5.50	.42	.000	.060
(WY)	1936	1991	1920	1989	1993	1992	1931	1920	1931	1919	1919	1920

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1916 - 1999	
ANNUAL TOTAL	180917		160953			
ANNUAL MEAN	496		441		303	
HIGHEST ANNUAL MEAN					1077	1983
LOWEST ANNUAL MEAN					20.1	1920
HIGHEST DAILY MEAN	2450	May 17	2410	May 4	6400	Apr 27 1952
LOWEST DAILY MEAN	38	Dec 25	38	Dec 25	.00	Jan 17 1917
ANNUAL SEVEN-DAY MINIMUM	56	Dec 20	56	Dec 20	.00	Sep 5 1918
ANNUAL RUNOFF (AC-FT)	358800		319300		219400	
10 PERCENT EXCEEDS	1300		1030		711	
50 PERCENT EXCEEDS	265		269		101	
90 PERCENT EXCEEDS	85		78		13	

e Estimated

MALAD RIVER BASIN

13152940 MALAD RIVER POWER FLUME NEAR BLISS, ID

LOCATION.--Lat 42°51'54",long 114°53'11", in NE¼NW¼NW¼ sec.35, T.6 S., R.13 E., Gooding County, Hydrologic Unit 17040219, on right bank, 0.2 mi upstream from U.S. Highway 30 bridge, and 3 mi north of Hagerman.

PERIOD OF RECORD.--June 1985 to September 1999 (discontinued). Previous discharge measurements were made and published as miscellaneous measurements.

GAGE.--Water-stage recorder.

REMARKS.--Records poor. Flow is diverted from the Malad River and the Malad Springs. Regulation is by the upper and lower power plants.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,500 ft^3/s Apr. 21, 1997; no flow at times when headgates are closed.

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	1300	1380	1260	1200	1130	1400	1380	1400	1390	1330	1270	1390
2	1290	1350	1270	1140	1130	1400	1390	1400	1390	1330	1250	1400
3	1290	1220	1260	1140	1130	1400	1340	1410	1390	1260	1240	1390
4	1290	1330	1250	1130	1140	1400	1310	1410	1400	1300	1310	1400
5	1300	1330	1250	1130	1120	1390	1310	1410	1400	1300	1320	1400
6	1280	1350	1230	1130	1130	1390	1310	1400	1390	1300	1330	1410
7	1290	1360	1180	1150	1160	1390	1250	1400	1350	1320	1330	1400
8	1280	1370	1190	1150	1180	1390	1260	1400	1380	1250	1330	1390
9	1290	1370	1170	1150	1220	1400	1320	1400	1380	1260	1340	1380
10	1300	1370	1150	1170	1360	700	1360	1390	1360	1270	1370	1370
11	1310	1360	1200	1150	1330	1340	1330	1390	1360	1290	e1100	1370
12	1320	1330	1170	1170	1240	1350	1350	1390	1350	1290	e1300	1370
13	1290	1240	1190	1150	1150	1370	1360	1390	1330	1270	e1400	1370
14	1320	1160	1180	1150	1140	1390	1300	1390	1330	1260	e1400	1400
15	1340	1150	1160	1150	1160	1400	1350	1390	1340	1290	e1400	1390
16	1350	1190	1170	1140	1230	1400	1330	1390	1340	1300	e1400	1380
17	1350	1210	1190	1210	1240	1400	1330	1390	1370	1300	e1300	1370
18	1340	1240	1170	1170	1310	1390	1330	1390	1390	1300	e1100	1370
19	1340	1240	1140	1170	1240	1390	1330	1380	1400	1310	e1350	1380
20	1350	1240	1100	1190	1170	1400	1310	1340	1380	950	1300	1380
21	1370	1260	1080	1300	1300	1400	1320	1370	1380	1310	1350	1370
22	1370	1260	1060	1260	1330	1390	1390	1360	1380	1310	1360	1360
23	1390	1270	1070	1180	1360	1390	1400	1330	1380	1250	1370	1370
24	1390	1260	1060	1150	1350	1390	1400	1340	1380	1240	1380	1370
25	1390	1270	1060	1150	1400	1390	1400	1310	1380	1230	1380	1380
26	1390	1270	1050	1150	1410	1390	1390	1310	1380	1270	1370	1390
27	1380	1280	1050	1110	1400	1390	1390	1380	1380	1290	1360	1390
28	1370	1240	1110	1060	1410	1390	1390	1410	1380	1270	1360	e900
29	1350	1280	1180	1090	---	1390	1390	1400	1370	1260	1380	e1400
30	1370	1260	1200	1110	---	1390	1400	1390	1350	1220	1380	e1400
31	1380	---	1230	1130	---	1380	---	1390	---	1260	1380	---
TOTAL	41370	38440	36030	35830	34870	42380	40420	42850	41180	39390	41210	41040
MEAN	1335	1281	1162	1156	1245	1367	1347	1382	1373	1271	1329	1368
MAX	1390	1380	1270	1300	1410	1400	1400	1410	1400	1330	1400	1410
MIN	1280	1150	1050	1060	1120	700	1250	1310	1330	950	1100	900
AC-FT	82060	76250	71470	71070	69160	84060	80170	84990	81680	78130	81740	81400

CAL YR 1998 TOTAL 455141.00 MEAN 1247 MAX 1470 MIN .00 AC-FT 902800
WTR YR 1999 TOTAL 475010 MEAN 1301 MAX 1410 MIN 700 AC-FT 942200

e Estimated

MALAD RIVER BASIN

13153500 MALAD RIVER NEAR BLISS, ID

LOCATION.--Lat 42°51'48", long 114°54'04", in SE¼NE¼NW¼ sec.34, T.6 S., R.13 E., Gooding County, Hydrologic Unit 17040212, on right bank, 700 ft upstream from mouth, and 8 mi southeast of Bliss.

DRAINAGE AREA.--3,000 mi^2, approximately.

PERIOD OF RECORD.--April to September 1899; December 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,750 ft above sea level, from topographic map. April to September 1899, nonrecording gage at same site and different datum.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes telemetry. Diversions from Big Wood, Little Wood, and Malad Rivers for irrigation above station. Major diversion for power generation bypasses station at most times (see sta 13152940). Numerous springs enter the Malad River canyon within 2 mi upstream. For records of combined discharges, see sta 13153501.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,390 ft^3/s Jan. 2, 1997; minimum daily, 66.0 ft^3/s Jan. 9, 10, 14, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,140 ft^3/s May 4; minimum daily, 95 ft^3/s Nov. 18.

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	375	405	101	125	126	887	433	1430	1580	170	113	247
2	314	283	106	120	125	769	404	1670	1500	151	122	275
3	291	625	101	120	125	443	202	2040	1400	111	134	292
4	316	202	101	121	126	351	170	2140	1370	117	148	345
5	321	207	103	121	124	312	170	2020	1440	124	148	351
6	345	257	101	121	124	290	168	1700	1390	135	162	358
7	436	318	97	123	128	296	153	1510	1320	175	169	350
8	347	355	135	123	131	308	154	1310	1040	121	184	356
9	275	392	150	121	136	321	189	1200	883	129	201	320
10	254	397	117	122	229	1080	242	1130	795	145	214	263
11	268	335	109	121	191	200	200	1080	608	166	399	266
12	294	231	97	123	135	166	231	912	386	170	158	286
13	334	144	107	121	124	190	256	791	274	156	146	576
14	319	135	106	121	124	242	602	791	221	150	164	332
15	350	135	97	121	124	310	581	727	207	173	183	287
16	390	123	107	120	130	338	483	664	212	187	243	233
17	395	119	107	127	132	297	493	600	334	190	277	206
18	357	95	110	123	154	269	503	456	984	193	300	215
19	377	104	119	123	130	309	478	317	1570	203	129	232
20	410	104	117	125	126	473	407	168	1510	477	121	256
21	506	105	115	154	152	659	429	218	1370	112	139	270
22	499	105	113	141	163	919	765	194	1060	101	162	258
23	487	110	113	125	198	754	887	145	603	126	170	277
24	482	106	113	122	182	666	822	158	449	130	181	306
25	466	108	113	119	431	661	768	135	487	113	177	321
26	464	110	113	121	559	610	786	132	479	114	158	354
27	474	115	113	122	401	520	685	392	460	118	137	443
28	381	107	118	124	445	587	669	1070	423	116	134	913
29	291	116	126	126	---	640	783	1410	324	112	190	421
30	382	104	125	124	---	532	1190	1360	218	111	233	357
31	438	---	131	125	---	492	---	1540	---	113	229	---
TOTAL	11638	6052	3481	3845	5275	14891	14303	29410	24897	4709	5625	9966
MEAN	375	202	112	124	188	480	477	949	830	152	181	332
MAX	506	625	150	154	559	1080	1190	2140	1580	477	399	913
MIN	254	95	97	119	124	166	153	132	207	101	113	206
AC-FT	23080	12000	6900	7630	10460	29540	28370	58330	49380	9340	11160	19770

CAL YR 1998 TOTAL 157173 MEAN 431 MAX 2070 MIN 95 AC-FT 311800
WTR YR 1999 TOTAL 134092 MEAN 367 MAX 2140 MIN 95 AC-FT 266000

MALAD RIVER BASIN

13153501 COMBINATION MALAD RIVER AND POWER FLUME NEAR BLISS, ID

REVISED RECORDS.--WDR-ID-98-1: 1997.

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	1680	1780	1360	1320	1260	2290	1810	2830	2970	1500	1380	1640
2	1600	1630	1380	1260	1260	2170	1790	3070	2890	1480	1370	1680
3	1580	1840	1360	1260	1260	1840	1540	3450	2790	1370	1370	1680
4	1610	1530	1350	1250	1270	1750	1480	3550	2770	1420	1460	1740
5	1620	1540	1350	1250	1240	1700	1480	3430	2840	1420	1470	1750
6	1620	1610	1330	1250	1250	1680	1480	3100	2780	1440	1490	1770
7	1730	1680	1280	1270	1290	1690	1400	2910	2670	1500	1500	1750
8	1630	1720	1320	1270	1310	1700	1410	2710	2420	1370	1510	1750
9	1560	1760	1320	1270	1360	1720	1510	2600	2260	1390	1540	1700
10	1550	1770	1270	1290	1590	1780	1600	2520	2160	1420	1580	1630
11	1580	1700	1310	1270	1520	1540	1530	2470	1970	1460	1500	1640
12	1610	1560	1270	1290	1380	1520	1580	2300	1740	1460	1460	1660
13	1620	1380	1300	1270	1270	1560	1620	2180	1600	1430	1550	1950
14	1640	1300	1290	1270	1260	1630	1900	2180	1550	1410	1560	1730
15	1690	1280	1260	1270	1280	1710	1930	2120	1550	1460	1580	1680
16	1740	1310	1280	1260	1360	1740	1810	2050	1550	1490	1640	1610
17	1740	1330	1300	1340	1370	1700	1820	1990	1700	1490	1580	1580
18	1700	1340	1280	1290	1460	1660	1830	1850	2370	1490	1400	1580
19	1720	1340	1260	1290	1370	1700	1810	1700	2970	1510	1480	1610
20	1760	1340	1220	1320	1300	1870	1720	1510	2890	1430	1420	1640
21	1880	1360	1200	1450	1450	2060	1750	1590	2750	1420	1490	1640
22	1870	1360	1170	1400	1490	2310	2160	1550	2440	1410	1520	1620
23	1880	1380	1180	1300	1560	2140	2290	1480	1980	1380	1540	1650
24	1870	1370	1170	1270	1530	2060	2220	1500	1830	1370	1560	1680
25	1860	1380	1170	1270	1830	2050	2170	1440	1870	1340	1560	1700
26	1850	1380	1160	1270	1970	2000	2180	1440	1860	1380	1530	1740
27	1850	1400	1160	1230	1800	1910	2080	1770	1840	1410	1500	1830
28	1750	1350	1230	1180	1860	1980	2060	2480	1800	1390	1490	1810
29	1640	1400	1310	1220	---	2030	2170	2810	1690	1370	1570	1820
30	1750	1360	1320	1230	---	1920	2590	2750	1570	1330	1610	1760
31	1820	---	1360	1260	---	1870	---	2930	---	1370	1610	---
TOTAL	53000	44480	39520	39640	40150	57280	54720	72260	66070	44110	46820	51020
MEAN	1710	1483	1275	1279	1434	1848	1824	2331	2202	1423	1510	1701
MAX	1880	1840	1380	1450	1970	2310	2590	3550	2970	1510	1640	1950
MIN	1550	1280	1160	1180	1240	1520	1400	1440	1550	1330	1370	1580
AC-FT	105100	88230	78390	78630	79640	113600	108500	143300	131000	87490	92870	101200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1999, BY WATER YEAR (WY)

MEAN	1510	1357	1291	1298	1420	1536	1743	1776	1784	1366	1374	1538
MAX	1958	1765	1570	1880	2092	2725	3044	2733	2600	1940	1560	1882
(WY)	1998	1987	1997	1997	1986	1986	1986	1997	1997	1995	1997	1997
MIN	1176	1131	1133	1138	1129	1206	1229	1130	1065	1179	1218	1240
(WY)	1993	1993	1993	1993	1993	1992	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1986 - 1999	
ANNUAL TOTAL	612410		609070			
ANNUAL MEAN	1678		1669		1499	
HIGHEST ANNUAL MEAN					1975	1997
LOWEST ANNUAL MEAN					1217	1992
HIGHEST DAILY MEAN	3430	May 17	3550	May 4	6400	Jan 2 1997
LOWEST DAILY MEAN	1150	Aug 14	1160	Dec 26	1000	May 28 1992
ANNUAL SEVEN-DAY MINIMUM	1170	Dec 21	1170	Dec 21	1010	May 24 1992
ANNUAL RUNOFF (AC-FT)	1215000		1208000		1086000	
10 PERCENT EXCEEDS	2490		2180		1970	
50 PERCENT EXCEEDS	1490		1560		1330	
90 PERCENT EXCEEDS	1270		1270		1200	

DIVERSIONS FROM SNAKE RIVER

BETWEEN SNAKE RIVER BELOW LOWER SALMON FALLS NEAR HAGERMAN AND SNAKE RIVER AT KING HILL

1315377299 KING HILL IRRIGATION DISTRICT PUMPING PLANT (WILEY SITE) NEAR BLISS, ID

LOCATION.--Lat 42°54'42", long 114°58'53", in SE¼SW¼ sec.12, T.6 S., R.12 E., Twin Falls County, Hydrologic Unit 17040212, on left bank of Snake River 2.0 mi southwest of Bliss, and 12.0 mi southeast of King Hill.

PERIOD OF RECORD.--April 1985 to current year (irrigation seasons only). April 1985 to September 1987 published as "King Hill Canal (Wiley site) near Bliss" (13153773); records may not be comparable.

GAGE.--In-line flow sensor with datalogger.

REMARKS.--Records good except for estimated daily discharges, which are fair. In-line flow sensor rated by ultrasonic flowmeter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 38 ft^3/s Aug. 8, 1993; no flow for long periods each year.

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	8.0	.00	---	---	---	---	e.00	9.1	12	22	18	12
2	8.0	.00	---	---	---	---	e.00	9.0	13	24	19	12
3	11	.00	---	---	---	---	.00	2.3	13	20	17	13
4	12	.00	---	---	---	---	.00	.00	12	22	19	15
5	12	.00	---	---	---	---	.00	.00	e12	25	22	13
6	12	.00	---	---	---	---	.00	.00	e12	20	24	12
7	11	.00	---	---	---	---	.00	4.3	e15	19	21	13
8	11	.00	---	---	---	---	.00	12	e15	23	19	15
9	13	.00	---	---	---	---	.00	12	e18	23	19	14
10	5.5	.00	---	---	---	---	.00	12	e19	23	21	13
11	.00	.00	---	---	---	---	.00	12	e22	22	21	16
12	.00	.00	---	---	---	---	.00	12	e22	22	16	18
13	.00	.00	---	---	---	---	.00	13	e18	22	13	18
14	.00	.00	---	---	---	---	.00	15	e18	22	12	15
15	.00	.00	---	---	---	---	12	15	e22	22	13	18
16	.00	.00	---	---	---	---	16	13	27	21	13	16
17	.00	---	---	---	---	---	9.2	13	28	20	12	12
18	.00	---	---	---	---	---	5.9	15	28	19	13	10
19	.00	---	---	---	---	---	7.3	15	28	17	13	10
20	.00	---	---	---	---	---	7.3	13	28	17	12	11
21	.00	---	---	---	---	---	7.4	12	26	19	15	11
22	.00	---	---	---	---	---	.17	13	25	19	17	11
23	.00	---	---	---	---	---	6.2	15	26	20	13	11
24	.00	---	---	---	---	---	13	15	26	21	12	16
25	.00	---	---	---	---	---	15	16	25	17	16	14
26	.00	---	---	---	---	---	11	16	25	16	16	8.9
27	.00	---	---	---	---	---	13	13	25	19	12	e8.0
28	.00	---	---	---	---	---	13	17	22	19	12	e8.0
29	.00	---	---	---	---	---	11	17	22	18	12	e8.5
30	.00	---	---	---	---	---	10	14	22	19	13	e9.0
31	.00	---	---	---	---	---	---	13	---	19	13	---
TOTAL	103.50	---	---	---	---	---	157.47	357.70	626	631	488	381.4
MEAN	3.34	---	---	---	---	---	5.25	11.5	20.9	20.4	15.7	12.7
MAX	13	---	---	---	---	---	16	17	28	25	24	18
MIN	.00	---	---	---	---	---	.00	.00	12	16	12	8.0
AC-FT	205	---	---	---	---	---	312	709	1240	1250	968	757

e Estimated

SNAKE RIVER MAIN STEM

13153776 SNAKE RIVER BELOW BLISS DAM NEAR BLISS, ID

LOCATION.--Lat 42°54'52", long 115°05'33", in sec.12, T.6 S., R.12 E., Elmore County, Hydrologic Unit 17040212, on right bank, 1 mi downstream from Bliss Power Plant.

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

GAGE.--Water-stage recorder. Elevation of gage is 2,600 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by American Falls Reservoir and several other smaller reservoirs upstream. Diurnal fluctuation caused by hydroelectric plants upstream. At times, practically entire flow is diverted at Milner during irrigation seasons; only minor diversions below Milner; flow below Bliss Dam is then derived largely from springs and seepage entering below Milner.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,000 ft^3/s June 21, 1997, gage height, 23.93 ft; minimum, 4,480 ft^3/s Nov. 18, 1997, gage height, 7.72 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36,400 ft^3/s June 7, gage height, 22.52 ft; minimum, 4,470 ft^3/s July 8, gage height, 7.71 ft.

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	9930	11400	14300	15400	13900	15200	16500	13100	17600	8800	8330	9550
2	9660	11100	14500	15200	14000	15100	14000	14700	18400	8210	8190	9300
3	9860	11000	14000	15100	13800	14900	16500	15500	20700	8800	8290	9340
4	9880	11100	14300	15000	13700	14900	16300	16100	22000	7100	8530	9660
5	9640	10800	15200	14900	13800	14800	16300	13800	22800	8130	8790	9570
6	9870	10400	15100	14700	13800	14900	17200	15300	23100	8650	8830	9660
7	9890	10600	14900	14500	13800	14800	18800	18100	24100	8160	8670	9480
8	9530	10400	14800	14600	14000	14900	20000	19500	24000	7110	8730	9400
9	10100	10600	15000	14700	14800	14900	19600	20700	23700	7880	8880	9380
10	9240	10700	14800	14800	15000	14800	20300	19700	23400	7950	8520	9150
11	9440	10600	15000	14800	14600	14100	19700	19700	23000	7890	8560	9160
12	9690	11100	15200	14900	14800	13500	19400	19400	22500	8020	9210	9260
13	9800	10800	15100	14900	14200	11800	18800	19800	22100	7940	9680	9250
14	9850	10800	14800	14900	14400	11200	18900	19300	22000	7910	8650	9440
15	10000	10800	14600	15000	14900	10600	19000	19100	21800	7820	8780	9230
16	9940	10200	14600	14800	14900	9730	18800	19200	21300	7920	9660	9180
17	10200	8980	14700	14600	14800	9990	18500	18800	19200	8050	8510	9160
18	9610	8770	14800	14300	14800	10100	18600	19500	17400	7940	9490	9200
19	9940	9900	14400	14300	14600	12600	18600	19000	17300	8130	8220	9200
20	9730	10700	14800	14600	14500	14000	17300	18500	16500	8110	9290	9890
21	9940	12300	13500	14900	14700	15500	16800	19700	16900	8050	8540	8750
22	10100	12300	15100	15000	14800	16800	16500	19300	16600	8050	9520	9430
23	9890	12900	15100	15400	14700	17100	15200	18600	14900	7940	8580	9300
24	9910	13900	15200	15100	14700	17400	15000	18300	14100	8170	9100	9370
25	9890	14200	15100	15100	14800	17600	14100	17600	14100	7950	9690	9420
26	9960	14600	15100	15000	14800	17500	13600	16100	14200	8370	8830	9770
27	10300	14400	15100	14400	14700	17400	12900	14800	14500	7970	8600	9450
28	11200	14300	15100	14200	14800	17500	12300	15700	14200	8250	9120	9940
29	10500	14300	15300	14600	---	17400	11300	16400	12300	8390	9170	10900
30	11500	14300	13900	14200	---	16900	12500	16500	9950	8360	9310	8520
31	11600	---	14900	14100	---	16600	---	17200	---	8010	9370	---
TOTAL	310590	348250	458300	458000	405100	454520	503300	549000	564650	250030	275640	282310
MEAN	10020	11610	14780	14770	14470	14660	16780	17710	18820	8065	8892	9410
MAX	11600	14600	15300	15400	15000	17600	20300	20700	24100	8800	9690	10900
MIN	9240	8770	13500	14100	13700	9730	11300	13100	9950	7100	8190	8520
AC-FT	616100	690800	909000	908400	803500	901500	998300	1089000	1120000	495900	546700	560000

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

MEAN	9491	9640	10530	11120	12190	13440	13140	12920	15760	8550	8519	9260
MAX	14710	13110	14780	15930	24620	25870	21020	18830	31390	10450	10960	14420
(WY)	1998	1998	1999	1997	1997	1997	1997	1998	1997	1997	1997	1997
MIN	7788	7828	7764	7714	7292	7000	7016	6273	6252	6643	6651	7179
(WY)	1993	1993	1995	1993	1993	1995	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1992 - 1999	
ANNUAL TOTAL	4759380		4859690			
ANNUAL MEAN	13040		13310		11200	
HIGHEST ANNUAL MEAN					16590	1997
LOWEST ANNUAL MEAN					7377	1992
HIGHEST DAILY MEAN	24900	May 26	24100	Jun 7	39900	Jun 21 1997
LOWEST DAILY MEAN	7560	Jul 17	7100	Jul 4	5680	Apr 5 1992
ANNUAL SEVEN-DAY MINIMUM	7930	Jul 17	7810	Jul 8	6020	Jun 6 1992
ANNUAL RUNOFF (AC-FT)	9440000		9639000		8113000	
10 PERCENT EXCEEDS	18100		18800		18000	
50 PERCENT EXCEEDS	12900		14200		8980	
90 PERCENT EXCEEDS	8410		8540		7140	

DIVERSIONS FROM SNAKE RIVER

BETWEEN SNAKE RIVER BELOW LOWER SALMON FALLS AND SNAKE RIVER AT KING HILL

13153778 KING HILL IRRIGATION DISTRICT PUMPING PLANT (BLACK MESA SITE) NEAR KING HILL, ID

LOCATION.--Lat 42°54'53", long 115°09'41", in NW¼SW¼ sec.9, T.6 S., R.11 E., Elmore County, Hydrologic Unit 17040212, about 6.5 mi south of King Hill.

PERIOD OF RECORD.--April 1986 to current year (irrigation seasons only). April 1986 to October 1988 published as King Hill Canal (Black Mesa Site) near King Hill (13153779). Prior to 1986, miscellaneous measurements only.

GAGE.--In-line flow sensor with datalogger.

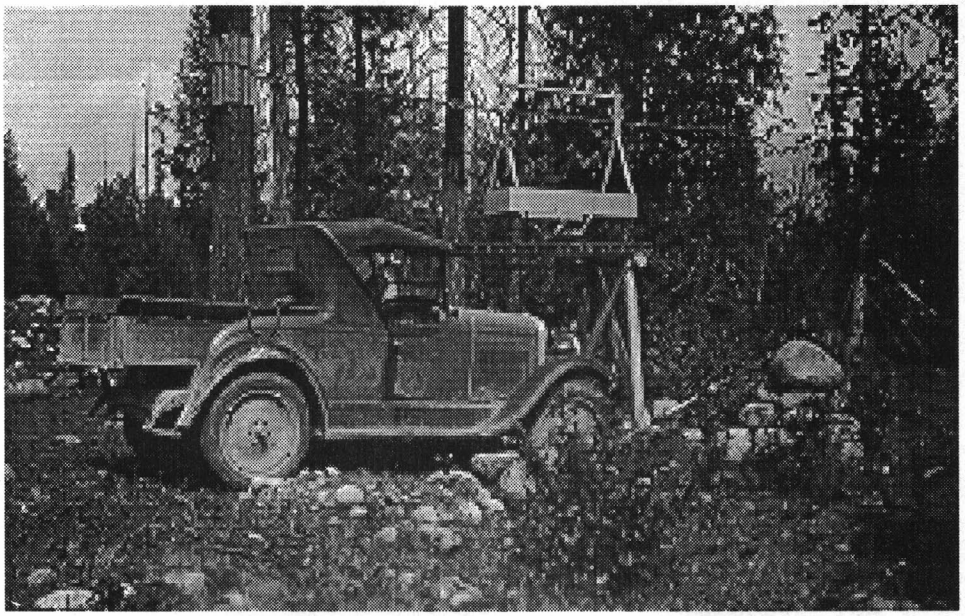
REMARKS.--Records good. In-line flow sensor rated by current meter measurements from canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 105 ft^3/s June 28 to July 5, 1990; no flow for long periods each year.

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	.00	---	---	---	---	e.00	57	58	80	73	67
2	40	.00	---	---	---	---	e.00	55	59	84	75	69
3	40	.00	---	---	---	---	.00	25	54	87	79	69
4	43	.00	---	---	---	---	.00	.00	47	84	79	73
5	43	.00	---	---	---	---	.00	.00	46	82	75	72
6	43	.00	---	---	---	---	.00	.00	49	85	77	70
7	43	.00	---	---	---	---	.00	36	52	88	78	73
8	39	.00	---	---	---	---	.00	49	59	88	78	72
9	37	.00	---	---	---	---	.00	53	67	90	78	70
10	18	.00	---	---	---	---	.00	57	74	92	78	70
11	.06	.00	---	---	---	---	.00	61	80	92	76	66
12	.00	.00	---	---	---	---	38	64	86	91	77	65
13	.00	.00	---	---	---	---	38	69	89	90	75	65
14	.00	.00	---	---	---	---	38	71	89	91	72	68
15	.00	.00	---	---	---	---	38	71	87	86	72	70
16	.00	.00	---	---	---	---	46	67	86	82	68	66
17	.00	---	---	---	---	---	58	64	85	83	62	59
18	.00	---	---	---	---	---	66	64	88	83	49	58
19	.00	---	---	---	---	---	69	60	87	80	43	53
20	.00	---	---	---	---	---	68	56	81	77	57	59
21	.00	---	---	---	---	---	68	54	75	71	57	65
22	.00	---	---	---	---	---	68	43	73	71	57	65
23	.00	---	---	---	---	---	68	42	73	67	57	65
24	.00	---	---	---	---	---	70	48	69	65	57	66
25	.00	---	---	---	---	---	72	55	71	63	57	62
26	.00	---	---	---	---	---	75	59	73	62	60	59
27	.00	---	---	---	---	---	76	61	70	67	62	57
28	.00	---	---	---	---	---	76	60	70	71	67	54
29	.00	---	---	---	---	---	73	61	76	70	69	51
30	.00	---	---	---	---	---	48	58	78	69	53	43
31	.00	---	---	---	---	---	---	52	---	72	51	---
TOTAL	390.06	---	---	---	---	---	1153.00	1572.00	2151	2463	2068	1921
MEAN	12.6	---	---	---	---	---	38.4	50.7	71.7	79.5	66.7	64.0
MAX	44	---	---	---	---	---	76	71	89	92	79	73
MIN	.00	---	---	---	---	---	.00	.00	46	62	43	43
AC-FT	774	---	---	---	---	---	2290	3120	4270	4890	4100	3810

e Estimated



Field Vehicle at Boundary Creek near Porthill cableway (June 1929)

SNAKE RIVER MAIN STEM

13154500 SNAKE RIVER AT KING HILL, ID

LOCATION.--Lat 43°00'08", long 115°12'06", in NW¼NW¼SW¼ sec.7, T.5 S., R.11 E., Elmore County, Hydrologic Unit 17040212, on right bank, 300 ft east of railroad tracks at King Hill, 20 mi downstream from Malad River, and at mile 546.6.

DRAINAGE AREA.--35,800 mi^2, approximately. Mean elevation, 6,040 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1909 to current year.

REVISED RECORDS.--WSP 1317: 1935(M). WDR ID-76-1: 1974.

GAGE.--Water-stage recorder. Datum of gage is 2,492.3 ft above sea level (stadia levels). Nonrecording gage May 13, 1909 to Mar. 1, 1910, on left bank at present site at datum 2.20 ft higher, Mar. 7 to Aug. 16, 1910, 0.8 mi upstream at different datum, and Aug. 17, 1910 to Oct. 7, 1928, at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by American Falls Reservoir, 168.4 mi upstream. Diurnal fluctuation caused by hydroelectric plants upstream. At times, practically entire flow is diverted at Milner during irrigation seasons; only minor diversions below Milner; flow at King Hill is then derived largely from springs and seepage entering below Milner. Diversions above station for irrigation of about 2,450,000 acres, of which about 675,000 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 47,200 ft^3/s June 22, 1918, gage height, 16.3 ft, from rating curve extended above 30,000 ft^3/s; minimum observed, 1,250 ft^3/s Jan. 10, 1950, when flow was cut for gage repairs, gage height, 1.75 ft; minimum daily, 4,760 ft^3/s June 7-9, Aug. 15, 16, 1910.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,800 ft^3/s June 7, gage height, 13.04 ft; minimum, 5,150 ft^3/s July 7, gage height, 4.87 ft.

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	10500	11800	14600	16000	14400	16100	17200	13500	18100	9510	8630	9780
2	10100	11600	14800	15600	14300	16000	15000	15200	18800	8830	8640	9740
3	10400	11300	14300	15500	14200	15600	16500	16300	21300	8730	8740	9650
4	10200	11500	14700	15300	14100	15500	17100	17000	22800	8090	8760	9960
5	10100	11400	15500	15200	14200	15400	16800	14900	23700	8660	8860	9860
6	10400	10800	15500	15100	14100	15400	17600	15400	23900	8500	9000	10000
7	10300	11000	15200	14900	14200	15400	19300	18800	25100	8700	8920	9900
8	10000	10800	15100	15000	14400	15400	20600	20000	25000	8160	8840	9710
9	10400	11000	15300	15000	15200	15400	20600	21500	24700	8240	9030	9720
10	9870	11100	15100	15100	15800	15300	21000	20500	24400	8370	9030	9570
11	9950	11000	15400	15200	15200	14700	20500	20400	23900	8370	8870	9430
12	10100	11400	15500	15200	15200	14100	20200	20000	23400	8430	9300	9520
13	10300	11200	15400	15200	14800	12400	19800	20500	22800	8440	9640	9580
14	10300	11200	15300	15200	14700	11900	19800	20000	22800	8340	9160	9690
15	10500	11100	15100	15400	15300	11500	19800	19800	22600	8280	9020	9450
16	10400	10800	15000	15400	15300	10700	19600	19900	22400	8420	9830	9540
17	10600	9400	15000	15000	15300	10900	19300	19400	20000	8540	8740	9320
18	10200	9400	15200	14700	15300	10700	19400	19900	18000	8460	9410	9430
19	10400	10100	14900	14700	15100	13200	19500	19600	17900	8510	8930	9470
20	10200	10900	15200	15000	14900	15200	18300	19100	17000	8650	9150	9790
21	10400	12500	13800	15400	15000	17100	17600	20300	17300	8540	9130	9370
22	10600	12600	14200	15400	15200	18200	17100	20000	17200	8530	9760	9610
23	10400	13100	15400	15800	15200	18400	16000	19400	15600	8450	8860	9710
24	10300	14100	14800	15500	15200	18800	15700	18800	14700	8560	9370	9740
25	10300	14400	15300	15300	15500	19100	14700	18200	14400	8600	9640	9740
26	10400	14800	15400	15400	15600	19000	14100	17000	14600	8720	9180	10200
27	10700	14700	15300	14900	15200	18700	13500	15200	15000	8580	9140	9820
28	11400	14600	15500	14400	15400	18500	12900	16000	14700	8600	9390	10300
29	10900	14500	15900	14900	---	18200	11900	16900	12700	9040	9440	11200
30	11700	14600	15000	14500	---	17700	12800	17000	10800	8350	9650	9230
31	12000	---	15100	14400	---	17500	---	17700	---	8470	9720	---
TOTAL	324320	358700	467800	469600	418300	482000	524200	568200	585600	264670	283780	292030
MEAN	10460	11960	15090	15150	14940	15550	17470	18330	19520	8538	9154	9734
MAX	12000	14800	15900	16000	15800	19100	21000	21500	25100	9510	9830	11200
MIN	9870	9400	13800	14400	14100	10700	11900	13500	10800	8090	8630	9230
AC-FT	643300	711500	927900	931500	829700	956000	1040000	1127000	1162000	525000	562900	579200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1999, BY WATER YEAR (WY)

MEAN	10530	11080	11080	11270	11450	11790	12860	12660	13410	8504	7816	8836
MAX	18630	20920	19750	21980	25290	26830	28100	27590	36970	21730	10920	14740
(WY)	1985	1985	1984	1984	1997	1997	1971	1984	1909	1909	1997	1912
MIN	6859	7258	7277	7165	7022	6832	6581	6205	6171	5396	4969	5869
(WY)	1925	1935	1962	1962	1935	1935	1934	1924	1992	1910	1910	1910

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1909 - 1999	
ANNUAL TOTAL	4915770		5039200			
ANNUAL MEAN	13470		13810		10890	
HIGHEST ANNUAL MEAN					18070	1984
LOWEST ANNUAL MEAN					7004	1935
HIGHEST DAILY MEAN	26000	May 17	25100	Jun 7	47200	Jun 22 1918
LOWEST DAILY MEAN	7770	Jul 17	8090	Jul 4	4760	Jul 7 1910
ANNUAL SEVEN-DAY MINIMUM	8270	Jul 17	8340	Jul 8	4880	Aug 10 1910
ANNUAL RUNOFF (AC-FT)	9750000		9995000		7890000	
10 PERCENT EXCEEDS	18600		19600		17100	
50 PERCENT EXCEEDS	13300		14600		9240	
90 PERCENT EXCEEDS	8830		8860		7000	

SNAKE RIVER MAIN STEM

13154500 SNAKE RIVER AT KING HILL, ID--Continued
(National water-quality assessment station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1951 to September 1980 (discontinued).
WATER TEMPERATURE: March 1951 to September 1980, June to September 1993, June to September 1994, July to September 1995, July to September 1996.

INSTRUMENTATION.--Water-quality monitor from March 1951 to September 1980. Temperature recording data logger from June to September 1993, June to September 1994, July to September 1995, July to September 1996.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 595 micromho/cm June 19, 1968; minimum, 296 micromho/cm, May 15, 1974.
WATER TEMPERATURE: Maximum, 23.0 °C Aug. 2, 1955; miminum, 3.0 °C Dec. 11, 16, 1972.

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)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	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)
OCT												
13...	0945	10200	481	8.1	11.0	12.5	9.8	103	694	190	44	19
NOV												
27...	1000	14600	472	7.4	7.0	8.0	11.7	110	695	190	47	18
DEC												
30...	1130	16100	463	7.9	10.0	5.5	11.2	97	700	180	46	17
JAN												
28...	0945	13700	469	7.9	-5.0	4.5	13.2	112	705	190	47	17
FEB												
17...	1045	15300	461	8.0	8.0	6.0	12.3	109	694	190	48	17
MAR												
25...	0845	19200	411	8.5	8.5	9.5	10.9	105	693	170	42	15
APR												
22...	0845	17000	432	8.1	3.0	10.5	11.2	113	693	170	41	15
MAY												
20...	0915	18200	433	8.3	15.0	13.0	10.1	107	695	180	45	16
JUN												
24...	0830	14900	408	8.1	17.0	18.0	7.4	88	691	170	42	15
JUL												
21...	0900	8400	461	8.4	18.5	18.5	8.5	100	696	180	42	17
AUG												
30...	0915	9610	474	8.5	17.5	19.0	6.8	80	689	190	45	18
SEP												
23...	0915	9130	475	8.1	14.5	16.0	10.5	122	696	190	45	19

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WAT.DIS FET FIELD HCO3 (MG/L) (29804)	CAR-BONATE WAT.DIS FET FIELD CO3 (MG/L) (29807)	ALKA-LINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	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 CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
OCT												
13...	27	23	4.3	190	3	162	44	24	0.7	26	307	292
NOV												
27...	25	22	4.3	210	0	169	41	23	0.7	26	305	291
DEC												
30...	23	21	3.6	190	0	158	41	22	0.7	25	305	278
JAN												
28...	25	22	4.1	150	0	121	42	23	0.6	26	301	262
FEB												
17...	25	22	3.7	220	0	181	41	22	0.7	25	293	296
MAR												
25...	20	21	3.7	190	0	162	37	20	0.7	20	263	255
APR												
22...	21	21	3.7	200	0	164	41	20	0.7	19	274	263
MAY												
20...	20	19	3.3	190	3	161	43	18	0.6	18	284	263
JUN												
24...	19	20	3.1	160	1	134	33	17	0.8	20	255	233
JUL												
21...	25	23	4.1	180	1	147	39	22	0.6	27	292	270
AUG												
30...	26	23	4.2	190	0	155	41	23	0.6	28	340	284
SEP												
23...	28	24	4.1	200	0	160	43	22	0.6	30	305	294

SNAKE RIVER MAIN STEM

13154500 SNAKE RIVER AT KING HILL, ID--Continued

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

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	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 TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT												
13...	0.42	8450	<.01	1.4	<.02	0.3	0.1	0.04	0.02	0.02	E5.6	<3.0
NOV												
27...	0.41	12000	.01	1.2	.07	0.2	0.2	0.07	--	0.04	<10	<3.0
DEC												
30...	0.41	13300	.03	1.1	.05	0.3	0.2	0.06	0.05	0.04	<10	<3.0
JAN												
28...	0.41	11100	.02	1.2	.03	0.2	0.2	0.06	0.04	0.03	<10	<3.0
FEB												
17...	0.40	12100	.02	1.1	.04	0.2	0.2	0.06	0.04	0.04	<10	<3.0
MAR												
25...	0.36	13600	.01	.56	<.02	0.6	0.2	0.10	0.01	<0.01	<10	<3.0
APR												
22...	0.37	12600	<.01	.64	<.02	0.4	0.1	0.07	0.01	0.01	<10	<3.0
MAY												
20...	0.39	14000	<.01	.61	<.02	0.3	0.2	0.07	0.02	0.02	<10	<3.0
JUN												
24...	0.35	10300	.01	.70	<.02	0.3	0.2	0.07	0.03	0.04	E5.2	<3.0
JUL												
21...	0.40	6620	.02	1.2	<.02	0.3	0.2	0.09	0.04	0.04	<10	<3.0
AUG												
30...	0.46	8820	<.01	1.2	<.02	0.3	<0.1	0.08	0.05	0.04	<10	<3.0
SEP												
23...	0.41	7520	.02	1.3	<.02	0.2	0.2	0.10	0.04	0.04	<10	<2.2

DATE	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	P,P' DDE DISSOLV (UG/L) (34653)
OCT												
13...	<0.002	E0.007	0.005	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006
NOV												
27...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
30...	<0.002	E0.003	0.005	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006
JAN												
28...	<0.002	E0.004	0.005	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006
FEB												
17...	<0.002	E0.004	0.004	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006
MAR												
25...	<0.002	E0.003	<0.001	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006
APR												
22...	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006
MAY												
20...	<0.002	E0.003	0.005	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006
JUN												
24...	<0.002	E0.005	0.005	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006
JUL												
21...	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006
AUG												
30...	<0.002	E0.008	0.005	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006
SEP												
23...	<0.002	E0.007	0.007	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002	<0.006

E Positive detection, but below stated detection limits.

SNAKE RIVER MAIN STEM

13154500 SNAKE RIVER AT KING HILL, ID--Continued

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

DATE	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	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)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	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)
OCT 13...	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<.002	<0.004	<0.002	<0.005
NOV 27...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 30...	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
JAN 28...	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
FEB 17...	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
MAR 25...	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
APR 22...	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
MAY 20...	<0.002	<0.001	<0.003	<0.017	0.009	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
JUN 24...	<0.002	<0.001	<0.003	<0.017	0.030	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
JUL 21...	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
AUG 30...	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005
SEP 23...	<0.002	<0.001	<0.003	<0.017	E0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002	<0.005

DATE	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARA-THION, DIS-SOLVED (UG/L) (39542)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
OCT 13...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003
NOV 27...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 30...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003
JAN 28...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003
FEB 17...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003
MAR 25...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003
APR 22...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003
MAY 20...	0.005	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003
JUN 24...	0.005	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003
JUL 21...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003
AUG 30...	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003
SEP 23...	0.005	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018	<0.003

SNAKE RIVER MAIN STEM

13154500 SNAKE RIVER AT KING HILL, ID--Continued

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

DATE	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)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT												
13...	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002	14	386
NOV												
27...	--	--	--	--	--	--	--	--	--	--	25	986
DEC												
30...	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002	27	1170
JAN												
28...	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002	9	333
FEB												
17...	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002	11	454
MAR												
25...	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002	31	1610
APR												
22...	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002	33	1510
MAY												
20...	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002	26	1280
JUN												
24...	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002	17	684
JUL												
21...	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002	9	204
AUG												
30...	<0.007	<0.004	--	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002	24	623
SEP												
23...	<0.007	<0.004	<0.013	<0.005	<0.01	<0.007	<0.013	<0.002	<0.001	<0.002	11	271

E Positive detection, but below stated detection limits.

13154500 SNAKE RIVER AT KING HILL, ID--Continued
(National water-quality assessment station)

COLLECTION METHODS.--Electrofishing; boat, (13A), backpack, (11A).

LENGTH OF REACH.--1065 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--Boat (13A), 0.96 hour, backpack (11A), 0.38 hours.

ANOMALY CODES.--AA-none; AL-anchor worms; BL-black spot; CL-leeches; DE-deformities; ER-eroded fins; IC-ich; LE-lesions; NE-blind; PA-other parasites; PE-popeye; TU-tumors.

HABITAT QUALITY INDEX.--NA.

BIOLOGICAL DATA, SEPTEMBER 1998
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	SEP 22								
Catostomidae (Suckers)									
Catostomus columbianus (Bridgelip Sucker)		19	2.9	60-403	2-582	NATIVE	HERBIVORE	COOL	17-AA
Catostomus macrocheilus (Largescale sucker)		165	25.6	50-560	1-5500	NATIVE	OMNIVORE	COOL	74-AA, 1-BL, 1-PA
Centrarchidae(Sunfishes)									
Micropterus dolomieu (Smallmouth Bass)		16	2.5	46-324	1-491	INTRODUCED	PISCIVORE	COOL	16-AA
Pomoxis annulris (White crappie)		51	7.9	160-205	42-112	INTRODUCED	INVERTIVORE	WARM	32-AA, 1-PR, 4-LE
Pomoxis nigromaculatus (Black crappie)		4	0.6	145-167	40-77	INTRODUCED	INVERTIVORE	WARM	4-AA
Cyprinidae (Carps and minnows)									
Arocheilus alutaceus (Chiselmouth)		27	4.2	50-210	1-97	NATIVE	HERBIVORE	COOL	28-AA
Cyprinus carpio (Common carp)		28	4.3	80-680	11-5500	INTRODUCED	OMNIVORE	WARM	27-AA, 1-BL
Ptychocheilus oregonensis (Northern Pikeminnow)		116	18	50-566	1-1918	NATIVE	PISCIVORE	COOL	55-AA
Gila atraria (Utah chub)		1	0.2	105	9	NATIVE	OMNIVORE	COOL	1-AA
Rhynichthys osculus (Speckled dace)		50	7.8	34-78	1-4	NATIVE	INVERTIVORE	COOL	37-AA
Richardsonius balteatus (Redside shiner)		167	19.8	48-138	??	NATIVE	INVERTIVORE	COOL	167-AA
Cottidae (Sculpins)									
Cottis bairdi (Mottled Sculpin)		34	5.3	45-132	1-23	NATIVE	INVERTIVORE	COOL	31-AA
Percidae (Perches)									
Perca flavescens (Yellow perch)		3	0.5	91-176	8-206	INTRODUCED	INVERTIVORE	COOL	3-AA
Salmonidae (Trouts)									
Prosopium williamsoni (Mountain whitefish)		3	0.5	146-151	23-29	NATIVE	INVERTIVORE	COLD	3-AA

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 14
TOTAL INDIVIDUALS 684

13154500 SNAKE RIVER AT KING HILL, ID--Continued
(National water-quality assessment station)

COLLECTION METHODS.--Electrofishing; boat, (13A), backpack, (11A).

LENGTH OF REACH.--1065 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--Boat (13A), 0.96 hour, backpack (11A), 0.38 hours.

ANOMALY CODES.--AA-none; AL-anchor worms; BL-black spot; CL-leeches; DE-deformities; ER-eroded fins; IC-ich; LE-lesions; NE-blind; PA-other parasites; PE-popeye; TU-tumors.

HABITAT QUALITY INDEX.--NA.

BIOLOGICAL DATA, SEPTEMBER 1999
FISH COLLECTION DATA

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	SEP 28								
Catostomidae (Suckers)									
Catostomus columbianus (Bridgelip Sucker)		4		140-505	35-1300	NATIVE	HERBIVORE	COOL	2-AA, 1-LE 1-ER
Catostomus macrocheilus (Largescale sucker)		65		52-460	1-5500	NATIVE	OMNIVORE	COOL	64-AA, 1-LE,
Centrarchidae(Sunfishes)									
Micropterus dolomieu (Smallmouth Bass)		9		40-315	1-472	INTRODUCED	PISCIVORE	COOL	9-AA
Micropterus salmoides (Largemouth Bass)		5		72-96	5-13	INTRODUCED	PISCIVORE	COOL	5-AA
Pomoxis annulris (White crappie)		3		195-218	86-159	INTRODUCED	INVERTIVORE	WARM	2-AA, 1-ER,
Pomoxis nigromaculatus (Black crappie)		4		177-201	85-134	INTRODUCED	INVERTIVORE	WARM	4-AA
Cyprinidae (Carps and minnows)									
Arocheilus alutaceus (Chiselmouth)		5		80-271	5-200	NATIVE	HERBIVORE	COOL	4-AA, 1-FU
Cyprinus carpio (Common carp)		13		73-725	5-6000	INTRODUCED	OMNIVORE	WARM	12-AA, 1-LE
Ptychocheilus oregonensis (Northern Pikeminnow)		21		35-472	1-1080	NATIVE	PISCIVORE	COOL	21-AA
Rhynichthys cataractae (Longnose dace)		6		71-95	4-9	NATIVE	INVERTIVORE	COOL	6-AA
Rhynichthys osculus (Speckled dace)		35		40-79	1-3	NATIVE	INVERTIVORE	COOL	35-AA
Richardsonius balteatus (Redside shiner)		4		50-150	2-35	NATIVE	INVERTIVORE	COOL	4-AA
Cottidae (Sculpins)									
Cottis bairdi (Mottled Sculpin)		8		55-105	3-19	NATIVE	INVERTIVORE	COOL	8-AA
Percidae (Perches)									
Perca flavescens (Yellow perch)		1		175	82	INTRODUCED	INVERTIVORE	COOL	1-AA
Salmonidae (Trouts)									
Prosopium williamsoni (Mountain whitefish)		5		156-330	33-402	NATIVE	INVERTIVORE	COLD	5-AA

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 15
TOTAL INDIVIDUALS 188

Discharge measurements made at special study, low-flow and other partial-record sites in Idaho during water year 1999.

Measurements of streamflow at points other than gaging stations are given in the following table.

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Snake River Basin						
Lewis River near Moose Falls 13009500	Snake River	Lat 44°09′, long 110°40′, Teton County, Hydrologic Unit 17040101, at mouth, approximately 1 mi north of south entrance to Yellowstone National Park.	--	1903,1989, 1992-95, 1997-98	9-24-1999	279
Henrys Fork Basin						
Henrys Fork near Big Springs 13040000	Henrys Fork	Lat 44°30′40″, long 111°17′23″, in $NW^1/_4SE^1/_4NW^1/_4$ sec.29, T.14 N., R.44 E., Fremont County, Hydrologic Unit 17040202, at highway crossing, 1.5 mi northwest of Big Springs.	--	1903,1924, 1932‡, 1974-75, 1995-98	9-23-1999	152
Moose Creek near Big Springs 13040800	.....do.....	Lat 44°29′06″, long 111°17′07″, in $SW^1/_4NW^1/_4NE^1/_4$ sec.5, T.13 N., R.44 E., Fremont County, Hydrologic Unit 17040202, at railroad bridge, 1.8 mi southwest of Big Springs.	--	1924-25, 1928, 1974-75, 1995-98	9-23-1999	68.1
Sheridan Creek at Green Canyon Bridge 13041500	.....do.....	Lat 44°24′43″, long 111°35′48″, in $NE^1/_4SE^1/_4NE^1/_4$ sec.34, T.13 N., R.41 E., Fremont County, Hydrologic Unit 17040202, at Green Canyon bridge, 1.4 mi upstream from mouth, and 14 mi west of Island Park.	--	1998	5-24-1999 6- 2-1999 6- 4-1999 6-24-1999	241 317 471 180
Buffalo River at Island Park 13043000	.....do.....	Lat 44°25′25″, long 111°22′15″, in $NW^1/_4NE^1/_4SW^1/_4$ sec.27, T.13 N., R.43 E., Fremont County, Hydrologic Unit 17040202, at highway crossing, 0.2 mi north of Island Park Ranger Station.	59.1	1935-41‡, 1974-75, 1977,1985, 1987-98	9-23-1999	254
Henrys Fork at Osborne bridge 13043800	Snake River	Lat 44°17′30″, long 111°27′02″, in $NW^1/_4$sec.36, T.12 N., R.42 E., Fremont County, Hydrologic Unit 17040202, 0.5 mi north of Osborne bridge, 1.5 mi southwest of Last Chance.	602	1974-75, 1992-95, 1997-98	9-23-1999	732
Henrys Fork at Pinehaven subdivision near Last Chance 13043820	.....do.....	Lat 44°17′23″, long 111°27′21″, T.11 N., R.42 E., Fremont County, Hydrologic Unit 17040202, at Swan Lake subdivision, 6.0 mi southwest of Last Chance.	--	1993-98	9-23-1999	1,000
Henrys Fork at Warm River 13044000	.....do.....	Lat 44°07′, long 111°20′, sec.12, T.9 N., R.43 E., Fremont County, Hydrologic Unit 17040202, 1,000 ft upstream from Warm River.	656	1910-15‡, 1918-52‡, 1992-95, 1997-98	9-24-1999	1,180
Warm River at Warm River 13044500	Henrys Fork	Lat 44°06′52″, long 111°19′25″, sec.12, T.9 N., R.43 E., Fremont County, Hydrologic Unit 17040202, 0.2 mi upstream from mouth, and 0.5 mi northeast of former Warm River Railroad Station.	145	1903, 1912-15‡, 1918-33‡, 1974-75, 1977,1985, 1987-95, 1997-98	9-24-1999	295
Robinson Creek at Warm River 13045500	.....do.....	Lat 44°06′37″, long 111°19′00″, in $NE^1/_4NE^1/_4NW^1/_4$ sec.13, T.9 N., R.43 E., Fremont County, Hydrologic Unit 17040202, at mouth.	125	1912-15‡, 1918-33‡, 1974-75, 1977, 1988-95, 1997-98	9-24-1999	99.5
Blackfoot River Basin						
Blackfoot River above Angus Creek near Henry 13062690	Snake River	Lat 42°49′26″, long 111°19′23″, in $NE^1/_4SE^1/_4NW^1/_4$ sec.9, T.7 S., R.44 E., Caribou County, Hydrologic Unit 17040207, at bridge above Angus Creek.	--	1977	6-14-1999	334

Discharge measurements made at special study, low-flow and other partial-record sites in Idaho during water year 1999.

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Blackfoot River Basin--Continued						
West tributary to Angus Creek Reservoir 130626910	Angus Creek	Lat 42°49'30", long 111°23'58", in $SE^1/_4SE^1/_4SW^1/_4$ sec.11, T.7 S., R.43 E., Caribou County, Hydrologic Unit 17040207, about 100 ft above water line.	--	---	6-15-1999	0.10
Angus Creek below Reservoir 13062692	Blackfoot River	Lat 42°49'37", long 111°24'00", in $NE^1/_4SE^1/_4SW^1/_4$ sec.11, T.7 S., R.43 E., Caribou County, Hydrologic Unit 17040207, 20 ft downstream from spillway.	--	---	6-15-1999	0.96
Angus Creek 0.7 mi below Angus Creek Reservoir 130626924	.....do.....	Lat 42°50'06", long 111°24'25", in $SW^1/_4NW^1/_4NW^1/_4$ sec.11, T.7 S., R.43 E., Caribou County, Hydrologic Unit 17040207, 0.7 mi downstream from Angus Creek Reservoir	--	---	6-15-1999	1.90
Angus Creek near Henry 13062695	.....do.....	Lat 42°51'14", long 111°24'26", in $NW^1/_4NW^1/_4SW^1/_4$ sec.34, T.6 S., R.43 E., Caribou County, Hydrologic Unit 17040207, above Rassmussen Valley, near Henry.	--	1979,1980	6-15-1999	5.53
Angus Creek at Road 121 crossing near Henry 13062698	.....do.....	Lat 42°50'30", long 111°21'31", in $NE^1/_4SE^1/_4NW^1/_4$ sec.7, T.7 S., R.43 E., Caribou County, Hydrologic Unit 17040207, at Road 121 crossing near Henry.	--	---	6-14-1999	12.5
Angus Creek at Road 095 crossing near Henry 13062700	.....do.....	Lat 42°49'43", long 111°20'15", in $NW^1/_4NW^1/_4SE^1/_4$ sec.7, T.7 S., R.44 E., Caribou County, Hydrologic Unit 17040207, at Road 095 crossing near Henry.	13.9	1962-71, 1973-80, 1986	6-14-1999	14.1
Angus Creek at mouth near Henry 13062701	.....do.....	Lat 42°49'56", long 111°20'00", in $NW^1/_4SE^1/_4SE^1/_4$ sec.8, T.7 S., R.44 E., Caribou County, Hydrologic Unit 17040207, at at mouth near Henry.	--	---	6-14-1999	14.4
Raft River Basin						
Raft River near mouth at Yale 13079901	Snake River	Lat 42°35'52", long 113°14'16", in $SW^1/_4SE^1/_4NE^1/_4$ sec.36, T.9 S., R.27 E., Cassia County, Hydrologic Unit 17040210, at mouth, at road crossing 0.15 mi west of Yale.	1,510	1985-89‡	10- 7-1996	0.0
					11-18-1996	0.0
					12-20-1996	0.0
					12-27-1996	61.2
					2-18-1997	3.44
					3-31-1997	19.5
					5-12-1997	43.7
					7- 7-1997	0.37
					8- 5-1997	3.84
					10- 2-1997	0.0
					11- 3-1997	0.0
					12-29-1997	0.0
					1- 5-1998	0.0
					1- 8-1998	0.0
					2- 9-1998	0.0
					3-23-1998	4.04
					5-11-1998	49.2
					6-18-1998	94.5
					7-21-1998	0.17
					8-25-1998	0.0
					10- 9-1998	0.0
					12- 9-1998	0.0
					1-19-1999	9.47
					1-19-1999	5.91
					3- 3-1999	17.9
					4-13-1999	28.6
					5-18-1999	57.8
					7- 6-1999	0.38
					8-23-1999	0.0
					10- 4-1999	0.0

Discharge measurements made at special study, low-flow and other partial-record sites in Idaho during water year 1999.

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Tributaries to Snake River between Milner and Salmon Falls Creek						
Devils Washbowl Spring at mouth near Kimberly 13089600	Snake River	Lat 42°35'18", long 114°20'45", in $NE^1/_4NE^1/_4$ sec.4, T.10 S., R.18 E., Jerome County, Hydrologic Unit 17040212, at old abandoned powerplant, approximately 0.2 mi upstream from mouth on right bank of Snake River, 0.5 mi upstream from Twin Falls powerplant, and 3.5 mi north of Kimberly.	--	1902,1917, 1923-24, 1950-59, 1963-87, 1991-98	11-19-1998 3-15-1999	14.9 12.0
Devils Corral Spring (upper outlet) near Kimberly 13090100	.....do.....	Lat 42°35'38", long 114°21'55", in $SE^1/_4SE^1/_4$ sec.32, T.9 S., R.18 E., Jerome County, Hydrologic Unit 17040212, 100 ft above point where flow cascades into right bank of Snake River at mile 617.1, approximately 2 mi upstream from Shoshone Falls and powerplant, and 4 mi north of Kimberly.	--	1902, 1923-24, 1939, 1950-59, 1963-98	11-19-1998 3-15-1999	41.0 37.8
Blue Lakes Spring Outlet near Twin Falls 13091500	.....do.....	Lat 42°36'30", long 114°28'34", in $SW^1/_4SW^1/_4$ sec.28, T.9 S., R.17 E., Jerome County, Hydrologic Unit 17040212, at point of entry to right bank of Snake River, 4 mi north of Twin Falls, and at mile 610.3.	--	1902,1910, 1913-14, 1917-21‡, 1921-47, 1950-59, 1963-71, 1973-98	11-18-1998 3-16-1999	191 181
Crystal Springs near Filer 13093400	.....do.....	Lat 42°39'36", long 114°38'32", in sec.12, T.9 S., R.14 E., Gooding County, Hydrologic Unit 17040212, a series of springs along a 0.6 mi reach of the right bank of Snake River, 1 mi upstream from Niagara Springs, 6.5 mi northwest of Filer, and 7 mi northeast of Buhl.	--	1902, 1918-19, 1924-25, 1931, 1950-59, 1963-95, 1998	11-18-1998 3-15-1999	442 491
Clear Lakes Spring Outlet near Buhl 13094500	.....do.....	Lat 42°40'01", long 114°46'45", in $SW^1/_4SE^1/_4$ sec.2, T.9 S., R.14 E., Gooding County, Hydrologic Unit 17040212, at Clear Lakes powerplant of Idaho Power Co., and 4.5 mi north of Buhl.	--	1902, 1913-14, 1917-21‡, 1924,1926, 1937, 1950-59, 1963-98	11-17-1998 3-17-1999	523 489
Briggs Creek Spring near Buhl 13095200	Snake River	Lat 42°40'20", long 114°49'00", in $NW^1/_4SE^1/_4$ sec.4, T.9 S., R.14 E., Gooding County, Hydrologic Unit 17040212, 500 ft upstream from mouth on right bank of Snake River, 2 mi downstream from Clear Lakes Springs outlet, and 6 mi northwest of Buhl.	--	1902,1913, 1917-20, 1924-25, 1931, 1950-59, 1963-89	3- 7-1994 3-28-1995 3-12-1996 3-19-1997 11-18-1997 3-10-1998	105 102 106 105 116 107
Unnamed Spring between Blind Canyon and Banbury Spring 13095350	.....do.....	Lat 42°41'51", long 114°49'21", in $SE^1/_4SW^1/_4$ sec.28, T.8 S., R.14 E., Gooding County, Hydrologic Unit 17040212, on right bank of Snake River, 0.4 mi south of Blind Canyon Spring, and 7.5 mi northwest of Buhl.	--	1950-59, 1963-71, 1973-98	11-16-1998 3-16-1999	4.38 3.59
Blind Canyon Spring near Buhl 13095400	.....do.....	Lat 42°42'12", long 114°49'20", in $SE^1/_4NW^1/_4$ sec.28, T.8 S., R.14 E., Gooding County, Hydrologic Unit 17040212, at outlet on right bank of Snake River, 0.2 mi upstream from Box Canyon Springs outlet, and 8 mi northwest of Buhl.	--	1902,1917, 1919, 1950-59, 1963-98	11-16-1998 3-16-1999	11.1 10.3
Mud Lake-Lost River Basins						
Camas Creek diversion above Lone Tree Reservoir near Dubois 13109600	Mud Lake	Lat 44°14'53", long 111°54'56", in $NE^1/_4SE^1/_4SE^1/_4$ sec.25, T.11 N., R.38 E., Clark County, Hydrologic Unit 17040214, at diversion structure, and 15 mi northeast of Dubois. (data for flood season only)	--	1969-75, 1980, 1983-86, 1993,1995	6- 1-1999 6-24-1999	369 134

Discharge measurements made at special study, low-flow and other partial-record sites in Idaho during water year 1999.

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Mud Lake-Lost River Basins--Continued						
Camas Creek below Laird Ranch near Camas 13111380	.....do.....	Lat 44°04'40", long 112°36'00", in $SW^1/_4NW^1/_4SW^1/_4$ sec.25, T.9 N., R.36 E., Clark County, Hydrologic Unit 17040214, below Laird Ranch, 300 ft below Larsens Upper Crossing, 4.85 mi north and 2.25 mi east of Camas.	--	1993-98	8- 3-1999	42.0
Camas Creek at rock reef near Camas 13111550	.....do.....	Lat 44°04'06", long 112°12'21", in $NW^1/_4NE^1/_4NE^1/_4$ sec.34, T.9 N., R.36., Clark County, Hydrologic Unit 17040214, at rock reef near Jefferson/Clark County line, above rechannelization, 2.2 mi north and 0.8 mi east of Camas.	--	1993-98	8- 3-1999	30.1
Camas Creek below rechannelization 13111670	.....do.....	Lat 44°02'58", long 112°12'12", in $SE^1/_4NW^1/_4SE^1/_4$ sec.3, T.8 N., R.36 E., Jefferson County, Hydrologic Unit 17040214, at the crossing below the rechannelization, 1.9 mi north and 0.87 mi east of Camas.	--	1993-98	8- 3-1999	28.6
Beaver Creek at Dubois 13113500	.....do.....	Lat 44°11'10", long 112°14'08", in $SW^1/_4SE^1/_4NW^1/_4$ sec.21, T.10 N., R.36 E., Clark County, Hydrologic Unit 17040214, at old gage site on left bank 50 ft north of highway bridge crossing in Dubois.	220	1921-73‡, 1983‡, 1984, 1985-87‡	6- 2-1999	357
Beaver Creek at Camas 13114000	.....do.....	Lat 44°00'27", long 112°13'25", in $NW^1/_4SW^1/_4$ sec.21, T.8 N., R.36 E., Jefferson County, Hydrologic Unit 17040214, at old gage site on right bank 0.1 mi west of railroad crossing at Camas, and 1.4 mi upstream from mouth.	510	1921-82‡, 1984-86‡, 1987, 1988-91‡	6- 2-1999	263
Upper Wood Ditch near Camas 13114110	Diversion from Camas Creek	Lat 43°58'48", long 112°14'53", in $SE^1/_4SE^1/_4NW^1/_4$ sec.32, T.8 N., R.36 E., Jefferson County, Hydrologic Unit 17040214, above the weir on Camas Creek, 1.1 mi northeast of the refuge headquarters, and 2.2 mi southwest of Camas.	--	1912,1990, 1998	8- 3-1999	13.9
Birch Creek at John Day grave site 13117024	Snake River	Lat 44°08'21", long 112°00'36", in $SW^1/_4NE^1/_4$ sec.5, T.9 N., R.30 E., Clark County, Hydrologic Unit 17040216, at John Day grave site, and 3.4 mi southeast of Blue Dome.	--	1988-98	6-16-1999 7-14-1999 9-14-1999	82.6 68.9 71.5
Birch Creek at dividing fence 13117025	.....do.....	Lat 44°07'02", long 112°53'04", in $NE^1/_4NW^1/_4$ sec.16, T.9 N., R.30 E., Clark County, Hydrologic Unit 17040216, at allotment dividing fence, and 3.4 mi southeast of Blue Dome.	--	1988-98	6-16-1999 7-14-1999 9-14-1999	74.9 62.3 65.5
Birch Creek above "K" Dam 13117026	Big Lost River	Lat 44°06'27", long 112°50'49", in $NW^1/_4SE^1/_4$ sec.16, T.9 N., R.30 E., Clark County, Hydrologic Unit 17040216, above Idaho Fish and Game "K" dam, and 4.1 mi southeast of Blue Dome.	--	1988-98	6-16-1999 7-14-1999 9-14-1999	74.5 57.2 65.0
Birch Creek below "K" Dam 13117028	.....do.....	Lat 44°05'53", long 112°52'36", in $SE^1/_4NE^1/_4$ sec.21, T.9 N., R.30 E., Clark County, Hydrologic Unit 17040216, below fifteenth Idaho Fish and Game "K" dam, and 4.8 mi southeast of Blue Dome.	--	1988-98	6-16-1999 7-14-1999 9-14-1999	73.3 56.6 63.8
Birch Creek at Eight-Mile Canyon Road near Reno 13117030	.....do.....	Lat 44°04'49", long 112°52'30", in $NW^1/_4NE^1/_4SE^1/_4$ sec.28, T.9 N., R.30 E., Clark County, Hydrologic Unit 17040216, 300 ft downstream from Eight-Mile Canyon Road crossing, 5.5 mi downstream from Blue Dome, and 14 mi southeast of Reno.	a400	1967-81‡, 1984-88‡, 1989-91, 1994-98	6-16-1999 7-14-1999 9-14-1999	70.8 55.1 61.0
Birch Creek above Power Co. pond 13117035	.....do.....	Lat 44°03'47", long 112°52'03", in $SE^1/_4NE^1/_4$ sec.35, T.9 N., R.30 E., Clark County, Hydrologic Unit 17040216, above Power Company pond, and 7.5 mi southeast of Blue Dome.	--	1987-92, 1994-98	6-16-1999 7-14-1999 9-14-1999	67.2 54.9 56.9

Discharge measurements made at special study, low-flow and other partial-record sites in Idaho during water year 1999.

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Mud Lake-Lost River Basins--Continued						
Big Lost River above Playa #3 13132590	.....do.....	Lat 43°48'15", long 112°48'57", in $NE^1/_4SE^1/_4$ sec.36, T.6 N., R.30 E., Butte County, Hydrologic Unit 17040217, above Big Lost River Playa #3 at State Highway 33 crossing, and 10 mi southeast of Howe.	--	1952, 1984-87, 1997-98	3-29-1999 6-29-1999	13.7 28.4
Tributaries to Snake River between Thousand Springs and Malad River						
Sand Springs Creek near Hagerman 13132600	Snake River	Lat 42°43'36", long 114°50'00", in $SE^1/_4$ sec.17, T.8 S., R.14 E., Gooding County, Hydrologic Unit 17040212, on right bank of Snake River, 0.5 mi upstream from mouth, and 7 mi southeast of Hagerman.	--	1902, 1912-13, 1917-21, 1924-25, 1931, 1954-59, 1963-98	11-17-1998 3-16-1999	84.2 72.9
Bickel Spring near Hagerman 13132790	.....do.....	Lat 42°45'29", long 114°51'19", in $SE^1/_4NW^1/_4SE^1/_4$ sec.6, T.8 S., R.14 E., Gooding County, Hydrologic Unit 17040212, 0.2 mi upstream from mouth on right bank of Snake River and 4.6 mi southeast of Hagerman.	--	1970-73, 1976-79, 1985-87, 1991-98	11-16-1998 3-17-1999	16.8 16.8
Thousand Springs at mouth near Hagerman 13132800	.....do.....	Lat 42°45', long 114°51'. Springs enter right bank of Snake River between mile 585.5 near line between Secs.17 and 20, T.8 S., R.14 E., and mile 583.0, approximately 200 ft upstream from line between sec.1, T.8 S., R.13 E., and sec.6, T.8 S., R.14 E., Gooding County, Hydrologic Unit 17040212, 6 mi southwest of Hagerman.	--	1950-59, 1963-94, 1998	11-16-1998 3-16-1999	1,020 1,480
Riley Creek near Hagerman 13133800	Snake River	Lat 42°45'50", long 114°51'40", in $SE^1/_4NW^1/_4$ sec.6, T.8 S., R.14 E., Gooding County, Hydrologic Unit 17040212, at Hagerman Hatchery of U.S. Fish & Wildlife Service, 200 ft upstream from road bridge, 1,750 ft below Lewis Springs, and 4.5 mi southeast of Hagerman. Flow includes Riley Creek plus Brailsford Ditch.	--	1950-59, 1963-98	11-16-1998 3-17-1999	99.3 64.7
Diversions from Snake River between Thousand Springs and Malad River						
Upper Power Canal 13134520	Diversion from Snake River	Lat 42°45'57", long 114°54'21", in $SW^1/_4NW^1/_4NW^1/_4$ sec.2, T.8 S., R.21 E., Twin Falls County, approximately 500 ft upstream from upper Idaho Power Company power plant at Upper Salmon Falls, and 3.5 mi south of Hagerman.	--	1991-98	10-16-1998 12-12-1998 1-22-1999 3- 3-1999 4-12-1999 5-27-1999 7- 7-1999 8-18-1999	7,410 7,100 7,230 7,800 7,550 6,930 6,520 6,810
Lower Power Canal 13134550	.....do.....	Lat 42°45'50", long 114°51'40", in $NE^1/_4NW^1/_4NW^1/_4$ sec.3, T.8 S., R.21 E., Twin Falls County, at bridge approximately 200 ft upstream from lower Idaho Power Company power plant at Upper Salmon Falls, and 3.6 mi south of Hagerman.	--	1937, 1991-98	10-16-1998 12- 9-1998 1-22-1999 3- 3-1999 4-12-1999 5-27-1999 7- 7-1999 8-18-1999	5,590 5,820 5,860 5,900 6,090 3,520 5,680 5,720
Bell Rapids Mutual Irr. Co. Pumping Plant near Hagerman 1313457010	.....do.....	Lat 42°49'28", long 114°56'14", in $NW^1/_4NE^1/_4$ sec.16, T.7 S., R.13 E., Twin Falls County, Hydrologic Unit 17040212, on left bank of the Snake River, approximately 2.1 mi west of Hagerman.	--	1988-97i	7-15-98	174

Discharge measurements made at special study, low-flow and other partial-record sites in Idaho during water year 1999.

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Tributaries to Snake River between Thousand Springs and Malad River--Continued						
Billingsley Creek near Hagerman 13134600	Snake River	Lat 42°46'35", long 114°50'55", in $SW^1/_4SW^1/_4NW^1/_4$ sec.32, T.7 S., R.14 E., Gooding County, 0.1 mi downstream from head of creek, 3.8 mi southeast of Hagerman, and approximately 7.5 mi upstream from mouth.	--	1902, 1917,1931, 1950-59, 1963-98	11-16-1998 3-17-1999	45.1 31.1
Birch Creek near Hagerman 13135100	.....do.....	Lat 42°51'10", long 114°53'30", in $SE^1/_4SE^1/_4$ sec.34, T.6 S., R.13 E., Gooding County, just downstream from left bank tributary, 0.5 mi upstream from entry to right bank of Snake River, 0.8 mi south of Malad River, and 2.5 mi north of Hagerman.	--	1917,1919, 1950-59, 1963-92, 1994-98	11-16-1998 3-17-1999	10.6 10.1

‡ Continuous record
a Approximately
b Crest-stage gage
c Measured by US Forest Service
f Continuous record, flood season only
i Continuous record, irrigation season only

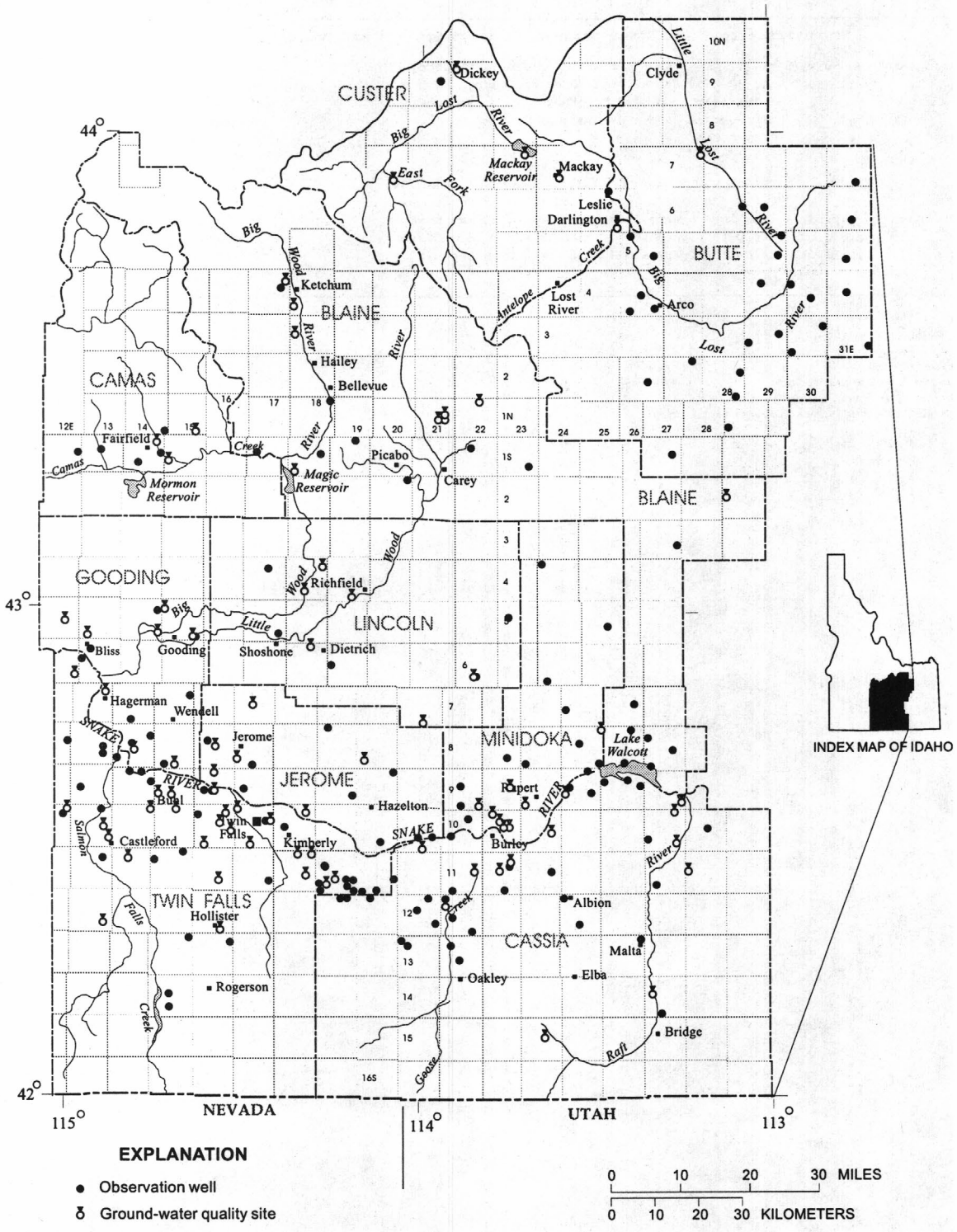


Figure 16. Locations of observation wells and ground-water-quality sites in south-central Idaho.

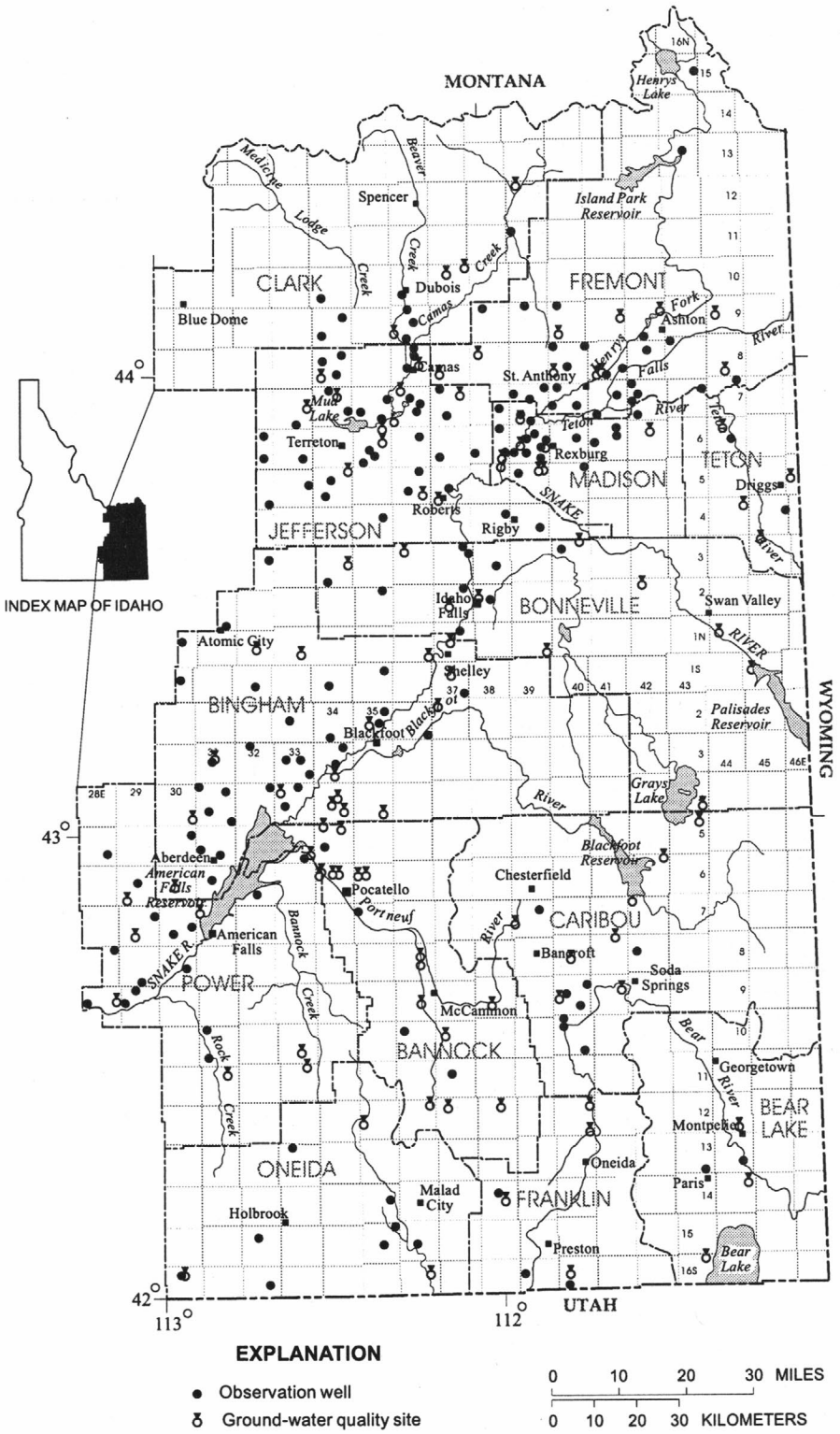


Figure 17. Locations of observation wells and ground-water-quality sites in southeast Idaho.

BANNOCK COUNTY

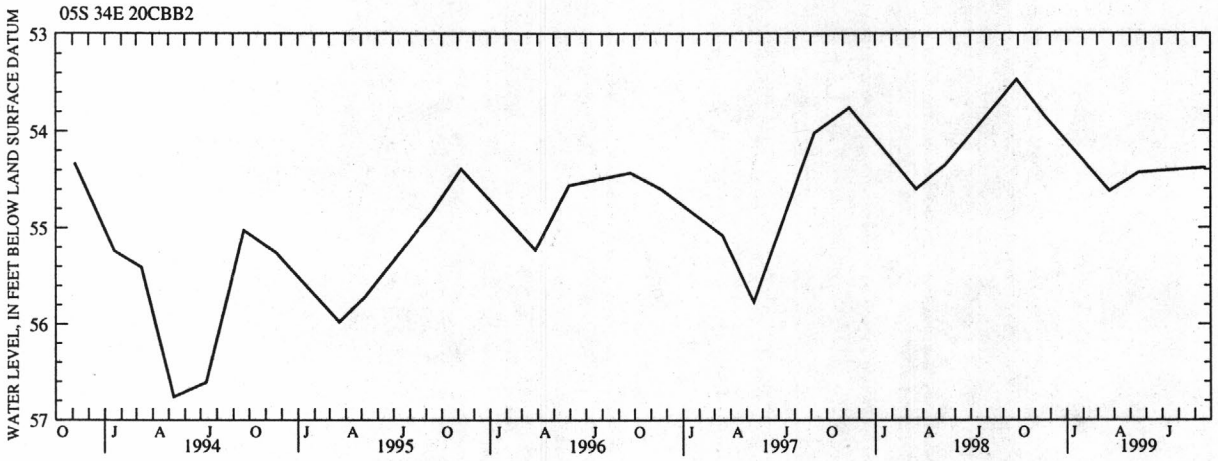
WELL NAME 05S 34E 20CBB2 SITE NUMBER 425816112305102

FORMERLY SITE NUMBER 425818112305202. DRILLED DOMESTIC WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 6 IN, DEPTH 154.7 FT, CASED TO 154.7 FT. LATITUDE 42°58'16", LONGITUDE 112°30'51". LSD ABOUT 4,455 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF 1-IN PIPE IN TOP OF WELL SEAL, 0.82 FT ABOVE LSD (SINCE SEP 17, 1990).

RECORDS AVAILABLE 1964 TO CURRENT YEAR.
HIGHEST WATER LEVEL 50.01 FEET BELOW LAND SURFACE DATUM SEP 24, 1973.
LOWEST WATER LEVEL 57.26 FEET BELOW LAND SURFACE DATUM MAY 13, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 19 53.84 MAR 23 54.62 MAY 18 54.43 SEP 22 54.38



WELL NAME 07S 35E 07DCB1 SITE NUMBER 424909112243201

DRILLED OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 83 FT, 6-IN CASING TO 42.25 FT, 4-IN PVC CASING 0-57 FT, SCREENED 57-67 FT. LATITUDE 42°49'09", LONGITUDE 112°24'32". LSD 4,466.40 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 4-IN PVC PIPE, 1.55 FT ABOVE LSD. (SINCE DEC 17, 1993).

RECORDS AVAILABLE 1993, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 15.41 FEET BELOW LAND SURFACE DATUM MAY 15, 1997.
LOWEST WATER LEVEL 26.63 FEET BELOW LAND SURFACE DATUM SEP 20, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 19 22.16 NOV 19 22.46 MAR 24 24.13 MAY 18 23.35 SEP 20 26.63

WELL NAME 10S 36E 08DDD1 SITE NUMBER 423347112161001

DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 16 IN, DEPTH 216 FT, CASED TO 216 FT, PERFORATED 115-120 FT, 128-132 FT, 138-140 FT, 170-212 FT. LATITUDE 42°33'47", LONGITUDE 112°16'10". LSD ABOUT 5,020 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE SOUTHEAST SIDE, 1.50 FT ABOVE LSD (SINCE DEC 14, 1972).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL 58.53 FEET BELOW LAND SURFACE DATUM JUL 01, 1986.
LOWEST WATER LEVEL 76.53 FEET BELOW LAND SURFACE DATUM SEP 21, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 19 75.38 MAR 24 75.24 MAY 17 75.29 SEP 21 76.53

BANNOCK COUNTY--continued

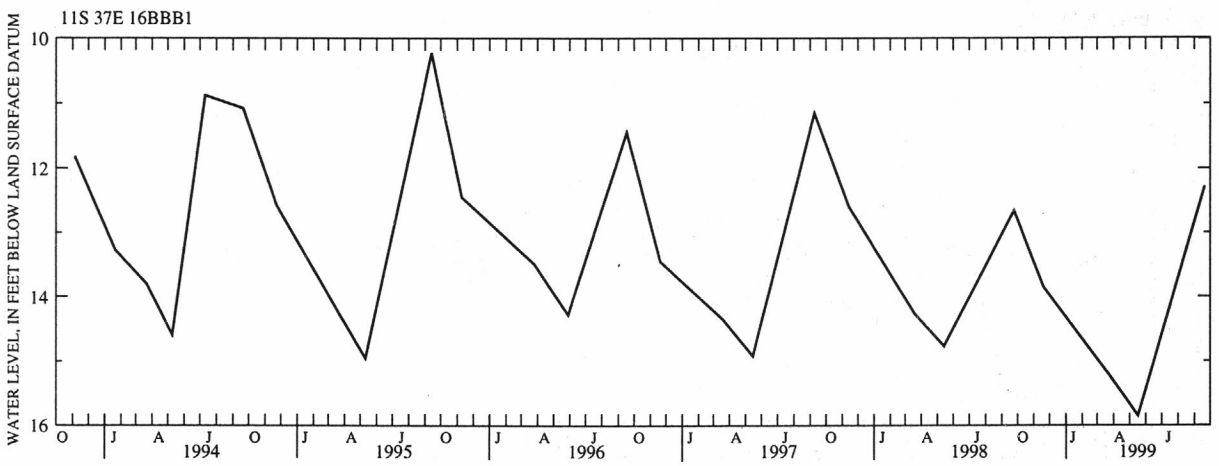
WELL NAME 11S 37E 16BBB1 SITE NUMBER 422821112085701

DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 16 IN, DEPTH 64.6 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°28'21", LONGITUDE 112°08'57". LSD ABOUT 4,842 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF 16-CASING WEST SIDE, 2.40 FT ABOVE LSD (SINCE MAR 30, 1993).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL 8.85 FEET BELOW LAND SURFACE DATUM SEP 21, 1987.
LOWEST WATER LEVEL 18.27 FEET BELOW LAND SURFACE DATUM JAN 25, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 19 13.85 MAR 24 15.23 MAY 17 15.86 SEP 21 12.29



BEAR LAKE COUNTY

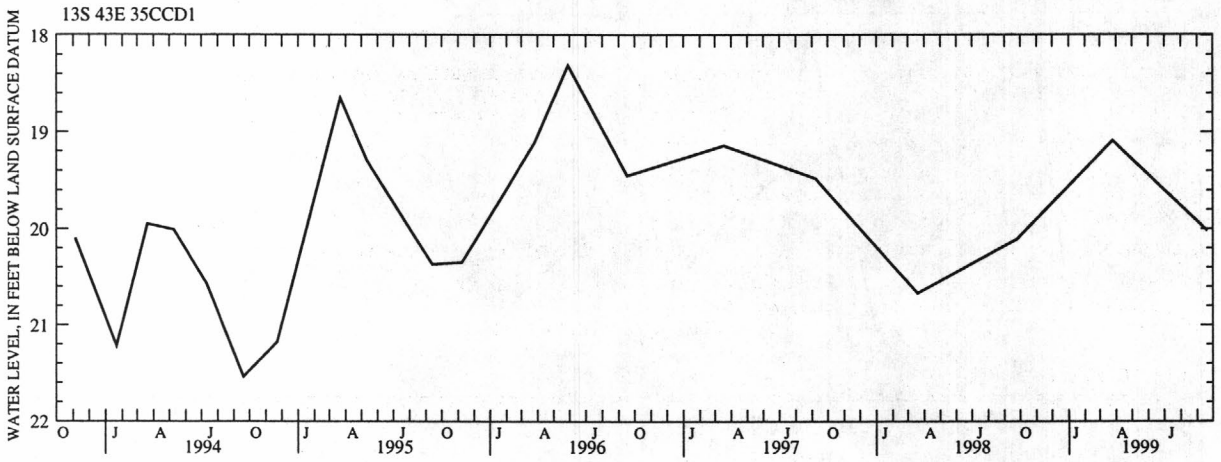
WELL NAME 13S 43E 35CCD1 SITE NUMBER 421433111240401

FORMERLY SITE NUMBER 421433111235401. DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 8 IN, REPORTED DEPTH 500 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°14'33", LONGITUDE 111°24'04". LSD ABOUT 5,950 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF CASING NORTH SIDE, 4.00 FT BELOW LSD (SINCE SEP 09, 1985).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 12.78 FEET BELOW LAND SURFACE DATUM AUG 15, 1968.
LOWEST WATER LEVEL 22.62 FEET BELOW LAND SURFACE DATUM SEP 14, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 25 19.09 SEP 20 20.02



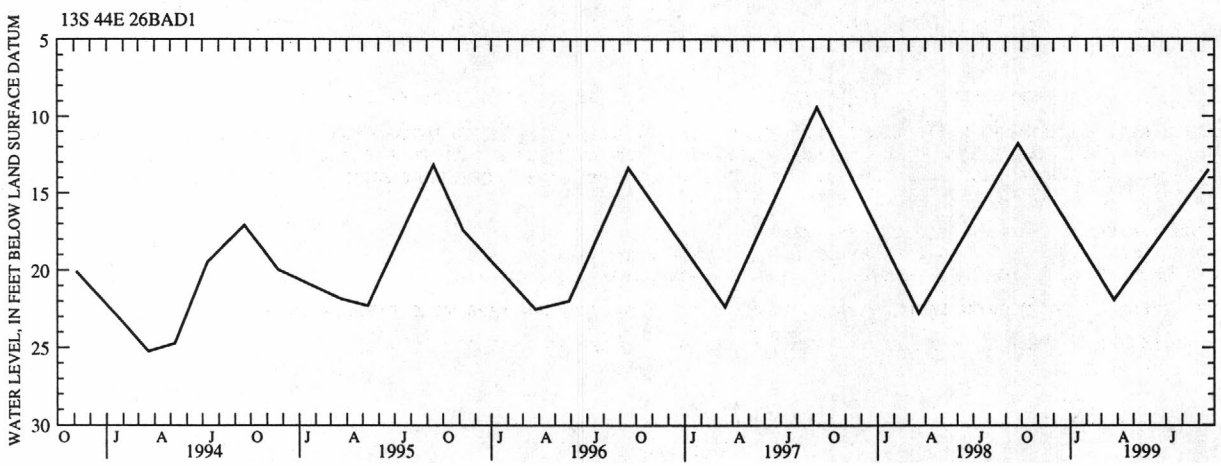
WELL NAME 13S 44E 26BAD1 SITE NUMBER 421602111164001

FORMERLY SITE NUMBER 421606111164201. DRILLED IRRIGATION WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 14 IN, DEPTH 170 FT, CASED TO 170 FT, PERFORATED 20-170 FT. LATITUDE 42°16'06", LONGITUDE 111°16'42". LSD ABOUT 5,970 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE IN PUMPBASE SOUTHEAST SIDE, 0.40 FT ABOVE LSD (SINCE SEP 20, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 9.39 FEET BELOW LAND SURFACE DATUM SEP 08, 1997.
LOWEST WATER LEVEL 25.25 FEET BELOW LAND SURFACE DATUM MAR 21, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 25 21.92 SEP 20 13.48



BINGHAM COUNTY

WELL NAME 03N 32E 13DCA1 SITE NUMBER 433509112384801

DRILLED INDUSTRIAL WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 10 IN, DEPTH 790 FT, CASED TO 790 FT, PERFORATED 680-730 FT, 737-787 FT, GRAVEL PACKED 0-787 FT, CONCRETE SEAL 787-790 FT. LATITUDE 43°35'09", LONGITUDE 112°38'48". LSD 5,165.51 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 1-IN MEASURING LINE, 2.00 FT ABOVE LSD (SINCE NOV 28, 1988).

RECORDS AVAILABLE 1958 TO CURRENT YEAR.
HIGHEST WATER LEVEL 672.06 FEET BELOW LAND SURFACE DATUM MAR 14, 1973.
LOWEST WATER LEVEL 682.87 FEET BELOW LAND SURFACE DATUM AUG 24, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 21	679.20	JAN 07	677.50	APR 19	677.54	JUL 16	678.54

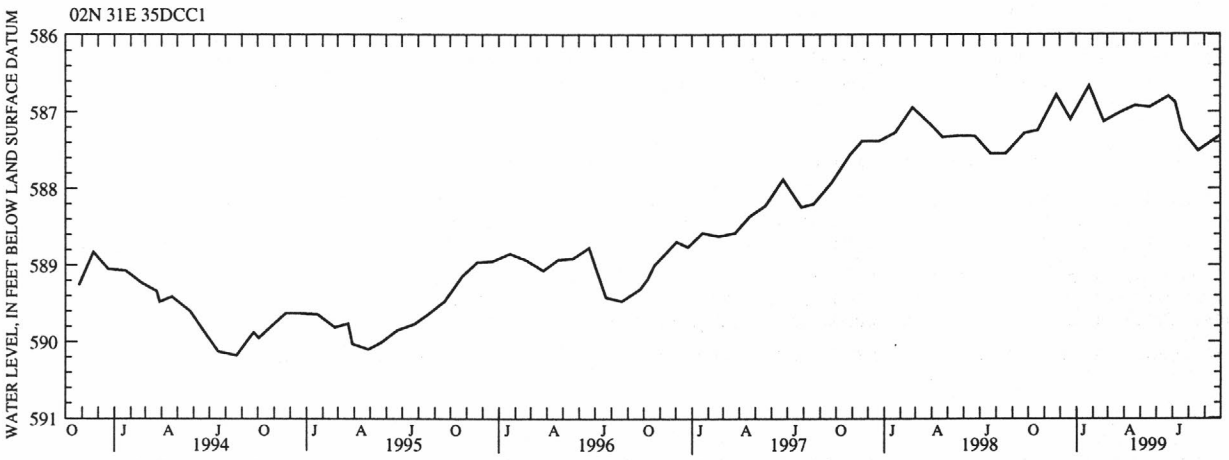
WELL NAME 02N 31E 35DCC1 SITE NUMBER 432700112470801

FORMERLY SITE NUMBER 432701112471101. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 636 FT, 6-IN CASING 0-433 FT, 5-IN CASING 423-636 FT, PERFORATED 600-630 FT. LATITUDE 43°27'00", LONGITUDE 112°47'08". LSD 5,022.34 FT ABOVE SEA LEVEL. RECORDER INSTALLED INSTALLED JAN 03, 1950 TO MAR 25, 1974. MP NO. 1 EDGE OF 1-IN PIPE COUPLING, 1.72 FT ABOVE LSD (SINCE JUL 03, 1990).

RECORDS AVAILABLE 1949 TO CURRENT YEAR.
HIGHEST WATER LEVEL 582.10 FEET BELOW LAND SURFACE DATUM NOV 12, 1951.
LOWEST WATER LEVEL 590.18 FEET BELOW LAND SURFACE DATUM AUG 22, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 20	587.24	JAN 25	586.66	APR 22	586.92	JUL 07	586.88	SEP 30	587.32
NOV 24	586.78	FEB 22	587.13	MAY 20	586.94	21	587.25		
DEC 21	587.10	MAR 22	587.02	JUN 24	586.80	AUG 20	587.21		



WELL NAME 01N 30E 10BBA1 SITE NUMBER 432618112555501

FORMERLY SITE NUMBER 432620112561301, WELL NAME 01N 30E 10BBB1. DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 563.8 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°26'18", LONGITUDE 112°55'55". LSD 4,979.39 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF PUMP COLUMN LINER NORTHEAST SIDE, 1.81 FT ABOVE LSD (SINCE APR 06, 1950).

RECORDS AVAILABLE 1922 TO CURRENT YEAR.
HIGHEST WATER LEVEL 527.36 FEET BELOW LAND SURFACE DATUM APR 20, 1950.
LOWEST WATER LEVEL 557.62 FEET BELOW LAND SURFACE DATUM OCT 28, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 01	552.60	MAR 11	552.83	JUN 15	552.63	SEP 15	553.08

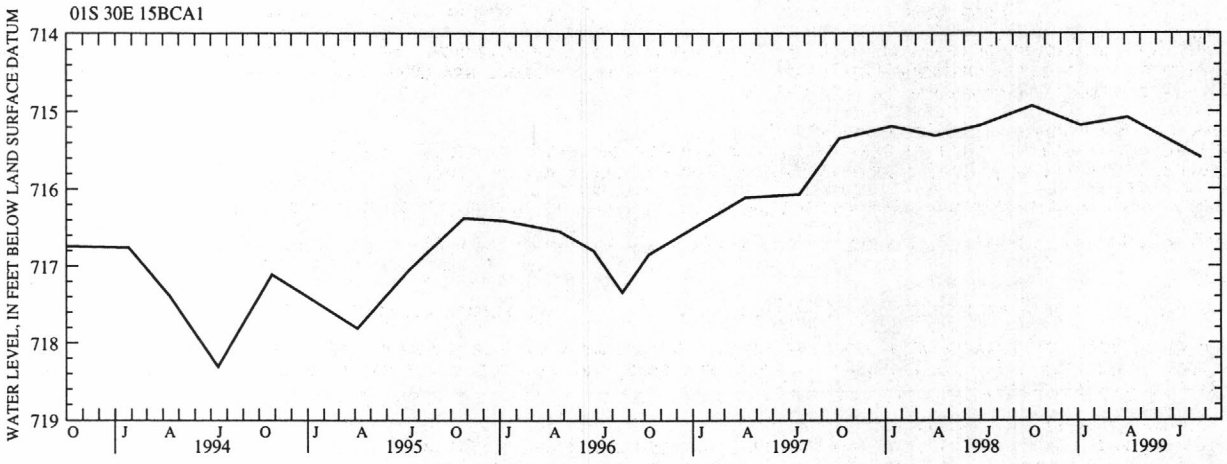
WELL NAME 01S 30E 15BCA1 SITE NUMBER 432019112563201

FORMERLY SITE NUMBER 432019112565101. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 751.5 FT, 6-IN CASING TO 570 FT, 5-IN CASING 570-752 FT, LEAD SEAL AT 550 FT. LATITUDE 43°20'13", LONGITUDE 112°56'32". LSD 5,133.08 FT ABOVE SEA LEVEL. RECORDER INSTALLED DEC 14, 1951 TO AUG 18, 1960. MP NO. 3 EDGE OF 1-IN COUPLING, 1.59 FT ABOVE LSD (SINCE SEP 01, 1989).

RECORDS AVAILABLE 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 709.80 FEET BELOW LAND SURFACE DATUM OCT 24, 1951.
LOWEST WATER LEVEL 718.31 FEET BELOW LAND SURFACE DATUM JUL 15, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 07 714.93 JAN 07 715.18 APR 07 715.08 JUL 16 715.45 AUG 25 715.60



WELL NAME 01S 32E 22BDB1 SITE NUMBER 431929112421701

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 IN, DEPTH 400 FT, CASED TO 22.5 FT. LATITUDE 43°19'29", LONGITUDE 112°42'17". LSD ABOUT 4,740 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE IN PUMPBASE SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE AUG 07, 1957).

RECORDS AVAILABLE 1957, 1970, 1972, 1980-1982, 1986 TO CURRENT YEAR.
HIGHEST WATER LEVEL 313.53 FEET BELOW LAND SURFACE DATUM MAR 18, 1987.
LOWEST WATER LEVEL 323.48 FEET BELOW LAND SURFACE DATUM SEP 11, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 307.26 MAR 22 318.68 MAY 27 318.59 SEP 24 318.67

WELL NAME 01S 34E 21DAC1 SITE NUMBER 431902112284301

DRILLED IRRIGATION WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM, DEPTH, AND CASING INFORMATION NOT AVAILABLE. LATITUDE 43°19'02", LONGITUDE 112°28'43". LSD ABOUT 4,547 FT ABOVE SEA LEVEL. MP NO. 2 BOTTOM LIP OF SLOPING PIPE, 1.86 FT ABOVE LSD (SINCE NOV 06, 1995).

RECORDS AVAILABLE 1980-1982, 1986 TO CURRENT YEAR.
HIGHEST WATER LEVEL 107.80 FEET BELOW LAND SURFACE DATUM OCT 09, 1986.
LOWEST WATER LEVEL 114.74 FEET BELOW LAND SURFACE DATUM MAY 17, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 112.97 MAR 22 112.02 MAY 26 112.32 SEP 24 111.82

WELL NAME 01S 35E 11CAD1 SITE NUMBER 432042112193201

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 IN, DEPTH 297 FT, CASED TO 15 FT. LATITUDE 43°20'42", LONGITUDE 112°19'32". LSD ABOUT 4,662 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE IN PUMPBASE EAST SIDE, 0.30 FT ABOVE LSD (SINCE JUN 20, 1957).

RECORDS AVAILABLE 1957, 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL 169.94 FEET BELOW LAND SURFACE DATUM NOV 08, 1984.
LOWEST WATER LEVEL 178.41 FEET BELOW LAND SURFACE DATUM MAY 15, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 172.73 MAR 22 175.71 MAY 27 174.83 SEP 24 174.21

WELL NAME 01S 37E 36CDA1 SITE NUMBER 431705112041301

DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 16 IN, DEPTH 414.9 FT, CASED TO 350 FT. LATITUDE 43°17'05", LONGITUDE 112°04'13". LSD ABOUT 4,780 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 16-IN CASING SOUTHWEST SIDE FLUSH WITH CONCRETE PAD AT LSD (SINCE MAR 28, 1958).

RECORDS AVAILABLE 1958 TO CURRENT YEAR.
HIGHEST WATER LEVEL 230.00 FEET BELOW LAND SURFACE DATUM SEP 25, 1972.
LOWEST WATER LEVEL 262.68 FEET BELOW LAND SURFACE DATUM SEP 17, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 22 248.38 SEP 20 240.62

WELL NAME 02S 33E 16ABB1 SITE NUMBER 431520112360901

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM, DEPTH, AND CASING INFORMATION NOT AVAILABLE. LATITUDE 43°15'20", LONGITUDE 112°36'09". LSD ABOUT 4,556 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 0.50 FT ABOVE LSD (SINCE MAR 16, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL 130.86 FEET BELOW LAND SURFACE DATUM OCT 09, 1986.
LOWEST WATER LEVEL 136.98 FEET BELOW LAND SURFACE DATUM MAY 13, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 133.68 MAR 22 134.34 MAY 26 134.35 SEP 24 134.26

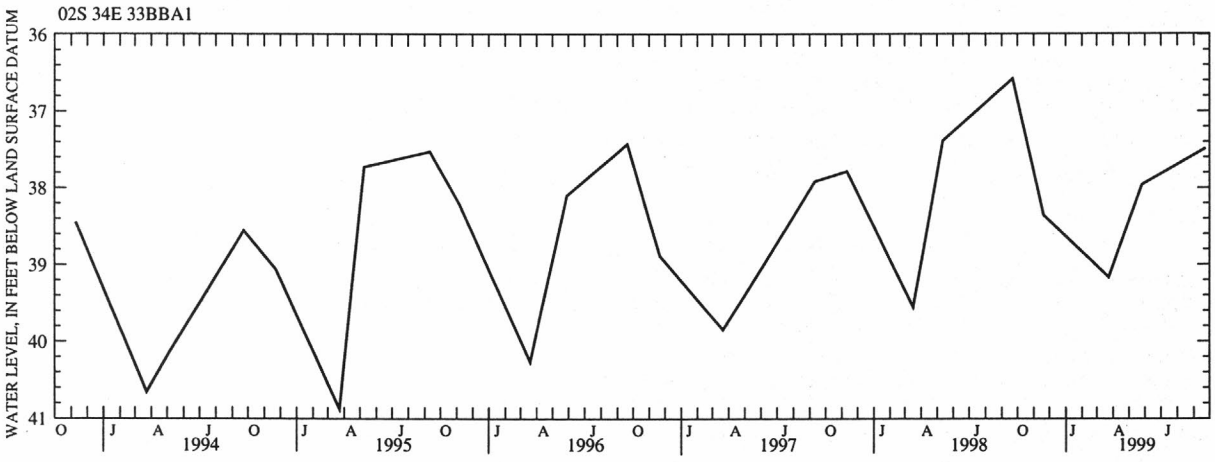
WELL NAME 02S 34E 33BBA1 SITE NUMBER 431242112292801

DRILLED STOCK WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 40 FT, CASED TO 5 FT. LATITUDE 43°12'42", LONGITUDE 112°29'28". LSD 4,456.89 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF CASING NORTH SIDE, 1.40 FT ABOVE LSD (SINCE JAN 18, 1982).

RECORDS AVAILABLE 1952 TO CURRENT YEAR.
HIGHEST WATER LEVEL 23.80 FEET BELOW LAND SURFACE DATUM AUG 30, 1952.
LOWEST WATER LEVEL 35.17 FEET BELOW LAND SURFACE DATUM JAN 29, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 31.99 MAR 22 32.80 MAY 26 28.95 SEP 24 29.88



WELL NAME 02S 35E 11DDD1 SITE NUMBER 431517112190101

DRILLED OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE, DIAM 6 IN, DEPTH 97 FT, CASED TO 113 FT, PERFORATED 88-93 FT, CONCRETE SEAL 97-110 FT, GRAVEL FILL 110-113 FT. LATITUDE 43°15'17", LONGITUDE 112°19'01". LSD ABOUT 4,510 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING SOUTHWEST SIDE, 2.58 FT ABOVE LSD (SINCE AUG 22, 1979).

RECORDS AVAILABLE 1979 TO CURRENT YEAR.
HIGHEST WATER LEVEL 17.76 FEET BELOW LAND SURFACE DATUM JUL 30, 1986.
LOWEST WATER LEVEL 71.58 FEET BELOW LAND SURFACE DATUM AUG 14, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 39.19 JAN 13 42.07 MAR 15 42.25 MAY 12 39.54 JUL 22 24.62 SEP 14 24.45

WELL NAME 02S 35E 11DDD2 SITE NUMBER 431517112190102

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 376 FT, 3/4-IN PIEZOMETER TUBE TO 129 FT, PERFORATED 121.5-126.5 FT, CONCRETE SEAL 97-110 FT, GRAVEL FILL 110-376 FT. LATITUDE 43°15'17", LONGITUDE 112°19'01". LSD ABOUT 4,510 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF 3/4-IN PIPE SOUTHWEST SIDE, 2.13 FT ABOVE LSD (SINCE MAR 04, 1980).

RECORDS AVAILABLE 1979 TO CURRENT YEAR.
HIGHEST WATER LEVEL 62.02 FEET BELOW LAND SURFACE DATUM AUG 22, 1984.
LOWEST WATER LEVEL 73.84 FEET BELOW LAND SURFACE DATUM MAR 23, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 66.73 JAN 13 66.89 MAR 15 69.28 MAY 12 69.37 JUL 22 67.27 SEP 14 66.07

WELL NAME 02S 35E 22DAC1 SITE NUMBER 431349112202001

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 24 IN, DEPTH 120 FT, CASED TO 24 FT. LATITUDE 43°13'49", LONGITUDE 112°20'20". LSD ABOUT 4,510 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE EAST SIDE, 1.30 FT ABOVE LSD (SINCE MAR 13, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL 75.78 FEET BELOW LAND SURFACE DATUM AUG 20, 1986.
LOWEST WATER LEVEL 90.69 FEET BELOW LAND SURFACE DATUM MAR 23, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 84.31 MAR 22 86.71 MAY 26 83.56 SEP 24 81.12

WELL NAME 02S 36E 36CDD1 SITE NUMBER 431148112111801

DRILLED STOCK WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 6 IN, DEPTH 98 FT, CASED TO 97 FT. LATITUDE 43°11'48", LONGITUDE 112°11'18". LSD ABOUT 4,636 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 2.00 FT ABOVE LSD (SINCE APR 07, 1955).

RECORDS AVAILABLE 1955, 1958 TO CURRENT YEAR.
HIGHEST WATER LEVEL 74.57 FEET BELOW LAND SURFACE DATUM OCT 25, 1959.
LOWEST WATER LEVEL 77.50 FEET BELOW LAND SURFACE DATUM AUG 06, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 22 76.36 SEP 20 76.39

WELL NAME 03S 31E 16CCB1 SITE NUMBER 430930112505701

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, DEPTH 318 FT, CASED TO 19 FT. LATITUDE 43°09'30", LONGITUDE 112°50'57". LSD ABOUT 4,640 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM EDGE OF SLOPING PIPE WEST SIDE, 0.90 FT ABOVE LSD (SINCE MAR 28, 1980).

RECORDS AVAILABLE 1980-1982, 1984 TO CURRENT YEAR.
HIGHEST WATER LEVEL 227.11 FEET BELOW LAND SURFACE DATUM APR 22, 1985.
LOWEST WATER LEVEL 233.30 FEET BELOW LAND SURFACE DATUM MAY 16, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 230.29 MAR 23 230.53 MAY 27 230.15 SEP 23 231.05

WELL NAME 03S 32E 04ACA1 SITE NUMBER 431138112425401

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 IN, DEPTH AND CASING INFORMATION NOT AVAILABLE. LATITUDE 43°11'38", LONGITUDE 112°42'54". LSD ABOUT 4,535 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF WEST EDGE SLOT IN DISC BLADE, 0.60 FT ABOVE LSD (SINCE APR 28, 1988).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL 112.08 FEET BELOW LAND SURFACE DATUM OCT 09, 1986.
LOWEST WATER LEVEL 117.57 FEET BELOW LAND SURFACE DATUM MAR 25, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 114.80 MAR 22 115.33 MAY 27 114.97 SEP 23 115.29

WELL NAME 03S 33E 14BBA1 SITE NUMBER 431006112340901

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 44 FT, CASED TO 3 FT. LATITUDE 43°10'06", LONGITUDE 112°34'09". LSD 4,461.55 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF ACCESS HOLE WEST SIDE, 2.20 FT ABOVE LSD (SINCE SEP 25, 1981).

RECORDS AVAILABLE 1952 TO CURRENT YEAR.
HIGHEST WATER LEVEL 34.89 FEET BELOW LAND SURFACE DATUM AUG 30, 1952.
LOWEST WATER LEVEL 44.13 FEET BELOW LAND SURFACE DATUM APR 27, 1960.

MAR 22 41.46 SEP 23 40.50

WELL NAME 03S 33E 17AAD1 SITE NUMBER 430955112365001

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 IN, DEPTH 185 FT, CASING DEPTH NOT AVAILABLE. LATITUDE 43°09'55", LONGITUDE 112°36'50". LSD 4,512.75 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF 18-IN CASING NORTH SIDE, 0.80 FT ABOVE LSD (SINCE SEP 17, 1976).

RECORDS AVAILABLE 1951-1956, 1958-1969, 1972, 1974 TO CURRENT YEAR.
HIGHEST WATER LEVEL 89.57 FEET BELOW LAND SURFACE DATUM OCT 02, 1952.
LOWEST WATER LEVEL 97.87 FEET BELOW LAND SURFACE DATUM MAR 25, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 22 95.86 SEP 23 95.29

WELL NAME 03S 33E 25CCC1 SITE NUMBER 430729112331201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 183.4 FT, CASED TO 185 FT, GRAVEL FILL 183.4-504 FT, CONCRETE SEAL 504-529 FT. LATITUDE 43°07'29", LONGITUDE 112°33'12". LSD ABOUT 4,450 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.50 FT ABOVE LSD (SINCE AUG 22, 1979).

RECORDS AVAILABLE 1979 TO CURRENT YEAR.
HIGHEST WATER LEVEL 33.26 FEET BELOW LAND SURFACE DATUM OCT 23, 1984.
LOWEST WATER LEVEL 38.90 FEET BELOW LAND SURFACE DATUM JAN 29, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 36.95 JAN 13 37.14 MAR 15 37.12 MAY 12 36.54 JUL 22 37.70 SEP 14 36.68

WELL NAME 03S 34E 02BCC3 SITE NUMBER 431126112271503

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 707 FT, 3/4-IN PIEZOMETER TO 676 FT, PERFORATED 668.5-673.5 FT, CONCRETE SEAL 547-565 FT, GRAVEL FILL 565-707 FT. LATITUDE 43°11'26", LONGITUDE 112°27'15". LSD ABOUT 4,446 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF 3/4-IN PIPE NORTH SIDE, 0.92 FT ABOVE LSD (SINCE MAR 29, 1980).

RECORDS AVAILABLE 1979 TO CURRENT YEAR.
HIGHEST WATER LEVEL 17.52 FEET BELOW LAND SURFACE DATUM SEP 20, 1984.
LOWEST WATER LEVEL 26.45 FEET BELOW LAND SURFACE DATUM MAR 23, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 23.33 JAN 13 23.70 MAR 15 23.65 MAY 12 22.58 JUL 22 22.73 SEP 14 21.89

WELL NAME 03S 34E 22DAB1 SITE NUMBER 430843112272701

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN, DEPTH 85 FT, CASED TO 81.5 FT, PERFORATED 60-65 FT, CONCRETE SEAL 85-93 FT. LATITUDE 43°08'43", LONGITUDE 112°27'27". LSD ABOUT 4,430 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING SOUTH SIDE, 2.30 FT ABOVE LSD (SINCE APR 14, 1981).

RECORDS AVAILABLE 1981 TO CURRENT YEAR.
HIGHEST WATER LEVEL 11.07 FEET BELOW LAND SURFACE DATUM JUN 20, 1984.
LOWEST WATER LEVEL 17.54 FEET BELOW LAND SURFACE DATUM MAR 20, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 15.28 JAN 13 15.65 MAR 15 15.45 MAY 12 14.39 JUL 22 15.15 SEP 14 14.44

WELL NAME 04S 31E 06BBD1 SITE NUMBER 430630112525901

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 IN, DEPTH 280 FT, CASED TO 8 FT. LATITUDE 43°06'30", LONGITUDE 112°52'59". LSD ABOUT 4,631 FT ABOVE SEA LEVEL. MP NO. 2 BOTTOM OF 1 1/2-IN ACCESS HOLE IN PUMPBASE WEST SIDE, 1.23 FT ABOVE LSD (SINCE MAY 25, 1989).

RECORDS AVAILABLE 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 221.23 FEET BELOW LAND SURFACE DATUM APR 24, 1985.
LOWEST WATER LEVEL 226.92 FEET BELOW LAND SURFACE DATUM SEP 11, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 224.07 MAR 23 224.06 MAY 25 224.65 SEP 23 224.90

WELL NAME 04S 31E 11ABA1 SITE NUMBER 430547112473701

DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 16 IN, DEPTH AND CASING INFORMATION NOT AVAILABLE. LATITUDE 43°05'47", LONGITUDE 112°47'37". LSD ABOUT 4,465 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 16-IN CASING WEST SIDE, 1.00 FT ABOVE LSD (SINCE APR 18, 1984).

RECORDS AVAILABLE 1984 TO CURRENT YEAR.
HIGHEST WATER LEVEL 56.83 FEET BELOW LAND SURFACE DATUM APR 24, 1985.
LOWEST WATER LEVEL 63.09 FEET BELOW LAND SURFACE DATUM JUL 13, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 59.98 MAR 23 60.09 MAY 26 59.64 SEP 23 60.52

WELL NAME 04S 31E 20BBB1 SITE NUMBER 430402112520301

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 201 FT, CASED TO 5 FT. LATITUDE 43°04'02", LONGITUDE 112°52'03". LSD 4,523.34 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF 3/4-IN ACCESS HOLE IN PUMPBASE NORTH SIDE, 0.29 FT ABOVE LSD (SINCE JAN 19, 1978).

RECORDS AVAILABLE 1953 TO CURRENT YEAR.
HIGHEST WATER LEVEL 115.09 FEET BELOW LAND SURFACE DATUM OCT 02, 1953.
LOWEST WATER LEVEL 123.91 FEET BELOW LAND SURFACE DATUM SEP 21, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 23 120.52 SEP 23 121.76

WELL NAME 04S 31E 36ABA1 SITE NUMBER 430216112464001

DRIVEN OBSERVATION WATER-TABLE WELL IN AMERICAN FALLS LAKE BEDS, DIAM 1 1/4 IN, DEPTH 17.1 FT, CASED TO 15.9 FT, SANDPOINT 15.9-18.4 FT. LATITUDE 43°02'16", LONGITUDE 112°46'40". LSD 4,401.78 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 1 1/4-IN CASING NORTH SIDE, 1.50 FT ABOVE LSD (SINCE JUL 26, 1959).

RECORDS AVAILABLE 1959 TO CURRENT YEAR.
HIGHEST WATER LEVEL +.26 FEET ABOVE LAND SURFACE DATUM SEP 19, 1973.
LOWEST WATER LEVEL 8.54 FEET BELOW LAND SURFACE DATUM MAR 31, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 23 6.85 SEP 23 4.19

WELL NAME 04S 32E 01CBA1 SITE NUMBER 430607112400501

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 90 FT, CASED TO 68 FT, CONCRETE SEAL 90-105 FT. LATITUDE 43°06'07", LONGITUDE 112°40'05". LSD ABOUT 4,450 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING NORTHWEST SIDE, 2.50 FT ABOVE LSD (SINCE JUN 23, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL 38.06 FEET BELOW LAND SURFACE DATUM JUN 21, 1985.
LOWEST WATER LEVEL 48.39 FEET BELOW LAND SURFACE DATUM JAN 28, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 40.40 JAN 13 46.91 MAR 15 46.78 MAY 12 39.50 JUL 22 40.53 SEP 14 41.30

WELL NAME 04S 32E 01CBA3 SITE NUMBER 430607112400503

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 295 FT, 3/4-IN PIEZOMETER TUBE TO 273 FT, PERFORATED 265.5-270.5 FT, CONCRETE SEAL 131-264 FT, GRAVEL FILL 264-295 FT. LATITUDE 43°06'07", LONGITUDE 112°40'05". LSD ABOUT 4,450 FT ABOVE SEA LEVEL. JUN 23, 1980, WELL HAD FILLED IN TO A DEPTH OF 241.7 FT. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMTION. MP NO. 1 EDGE OF 3/4-IN PIPE NORTHWEST SIDE, 1.21 FT ABOVE LSD (SINCE JUN 23, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL 37.88 FEET BELOW LAND SURFACE DATUM NOV 13, 1985.
LOWEST WATER LEVEL 44.96 FEET BELOW LAND SURFACE DATUM FEB 18, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 40.86 JAN 13 40.83 MAR 15 40.93 MAY 12 40.92 JUL 22 40.89 SEP 14 40.92

WELL NAME 04S 32E 01CBA4 SITE NUMBER 430607112400504

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 433 FT, 3/4-IN PIEZOMETER TUBE TO 357 FT, PERFORATED 349.5-354.5 FT, CONCRETE SEAL 295-310 FT, GRAVEL FILL 310-433 FT. LATITUDE 43°06'07", LONGITUDE 112°40'05". LSD ABOUT 4,450 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 3/4-IN PIPE NORTHWEST SIDE, 0.99 FT ABOVE LSD (SINCE DEC 17, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL 34.93 FEET BELOW LAND SURFACE DATUM OCT 23, 1984.
LOWEST WATER LEVEL 42.45 FEET BELOW LAND SURFACE DATUM JUL 13, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 38.91 JAN 13 39.44 MAR 15 39.55 MAY 12 39.13 JUL 22 40.53 SEP 14 40.60

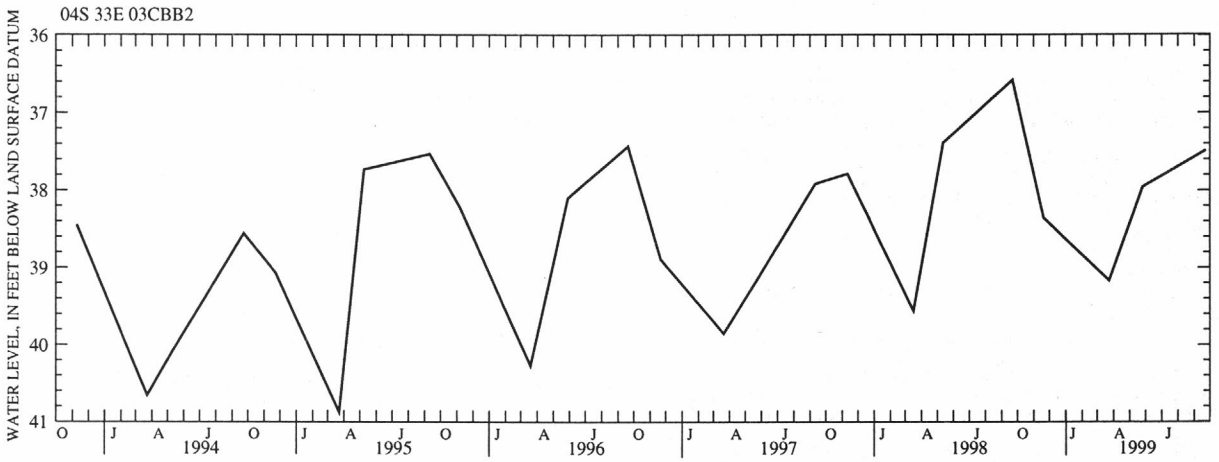
WELL NAME 04S 33E 03CBB2 SITE NUMBER 430610112353301

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 53.3 FT, CASED TO 12 FT. LATITUDE 43°06'10", LONGITUDE 112°35'33". LSD 4,447.94 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUL 23, 1959 TO MAY 25, 1969. RECORDER INSTALLED JAN 12, 1978 TO MAR 16, 1986. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.10 FT ABOVE LSD (SINCE MAR 25, 1959).

RECORDS AVAILABLE 1959-1969, 1972, 1974 TO CURRENT YEAR.
HIGHEST WATER LEVEL 31.37 FEET BELOW LAND SURFACE DATUM AUG 19, 1969.
LOWEST WATER LEVEL 41.00 FEET BELOW LAND SURFACE DATUM MAR 25, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 38.36 MAR 23 39.17 MAY 26 37.96 SEP 23 37.49



WELL NAME 04S 33E 20CBB1 SITE NUMBER 430333112375801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 65 FT, CASED TO 5.17 FT. LATITUDE 43°03'33", LONGITUDE 112°37'58". LSD ABOUT 4,418 FT ABOVE SEA LEVEL. JUN 19, 1981, WELL HAD FILLED IN TO A DEPTH OF 61.8 FT. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING NORTH SIDE, 2.00 FT ABOVE LSD (SINCE MAY 28, 1981).

RECORDS AVAILABLE 1981 TO CURRENT YEAR.
HIGHEST WATER LEVEL 28.15 FEET BELOW LAND SURFACE DATUM JUN 15, 1983.
LOWEST WATER LEVEL 32.54 FEET BELOW LAND SURFACE DATUM JAN 29, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 30.55 JAN 13 31.32 MAR 15 30.92 MAY 12 29.39 JUL 22 31.60 SEP 14 29.84

WELL NAME 04S 33E 20CBB2 SITE NUMBER 430333112375802

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 108 FT, CASED TO 108 FT, PERFORATED 64-68 FT. LATITUDE 43°03'33", LONGITUDE 112°37'58". LSD ABOUT 4,418 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 1 1/4-IN PIPE NORTH SIDE, 0.74 FT ABOVE LSD (SINCE MAY 20, 1981).

RECORDS AVAILABLE 1981 TO CURRENT YEAR.
HIGHEST WATER LEVEL 17.49 FEET BELOW LAND SURFACE DATUM OCT 23, 1984.
LOWEST WATER LEVEL 24.10 FEET BELOW LAND SURFACE DATUM MAY 11, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 21.81 JAN 13 22.95 MAR 15 22.38 MAY 12 21.84 JUL 22 24.49 SEP 14 22.90

WELL NAME 04S 33E 20CBB3 SITE NUMBER 430333112375803

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, DEPTH 405 FT, CASED TO 385 FT, GRAVEL FILL 385-405 FT, CONCRETE SEAL 405-468 FT. LATITUDE 43°03'33", LONGITUDE 112°37'58". LSD ABOUT 4,418 FT ABOVE SEA LEVEL. JUN 19, 1981, WELL HAD FILLED IN TO A DEPTH OF 365.7 FT. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING NORTH SIDE, 0.57 FT ABOVE LSD (SINCE MAY 20, 1981).

RECORDS AVAILABLE 1981 TO CURRENT YEAR.
HIGHEST WATER LEVEL 11.83 FEET BELOW LAND SURFACE DATUM NOV 09, 1989.
LOWEST WATER LEVEL WELL DRY DURING PORTIONS OF 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 15.19 JAN 13 D MAR 15 D MAY 12 D JUL 22 D SEP 14 D

WELL NAME 04S 33E 20CBB4 SITE NUMBER 430333112375804

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 738.2 FT, 3/4-IN PIEZOMETER TUBE TO 741 FT, PERFORATED 668-673 FT, 705-710 FT, CONCRETE SEAL 405-468 FT, GRAVEL FILL 468-741 FT. LATITUDE 43°03'33", LONGITUDE 112°37'58". LSD ABOUT 4,418 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 1 1/4-IN PIPE NORTH SIDE, 0.47 FT ABOVE LSD (SINCE MAY 20, 1981).

RECORDS AVAILABLE 1981 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.56 FEET BELOW LAND SURFACE DATUM OCT 23, 1984.
LOWEST WATER LEVEL 9.55 FEET BELOW LAND SURFACE DATUM JUL 13, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 6.88 JAN 13 7.03 MAR 15 7.10 MAY 12 6.65 JUL 22 7.99 SEP 14 7.00

WELL NAME 05S 30E 12BBA1 SITE NUMBER 430030112541301

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12 IN, DEPTH 200 FT, CASED TO 6 FT. LATITUDE 43°00'03", LONGITUDE 112°54'12". LSD 4,501.51 FT ABOVE SEA LEVEL. MP NO. 3 BOTTOM EDGE OF PUMPBASE NORTHWEST SIDE, 0.43 FT ABOVE LSD (SINCE SEP 13, 1978).

RECORDS AVAILABLE 1951-1953, 1956, 1958 TO CURRENT YEAR.
HIGHEST WATER LEVEL 104.22 FEET BELOW LAND SURFACE DATUM AUG 29, 1951.
LOWEST WATER LEVEL 121.28 FEET BELOW LAND SURFACE DATUM NOV 19, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 110.34 MAR 23 109.78 MAY 27 110.52 SEP 23 117.45P

WELL NAME 05S 31E 19DDC2 SITE NUMBER 425754112521601

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 120 FT, CASED TO 120 FT. LATITUDE 43°57'54", LONGITUDE 112°52'16". LSD ABOUT 4,420 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.50 FT ABOVE LSD (SINCE SEP 23, 1993).

RECORDS AVAILABLE 1993 TO CURRENT YEAR.
HIGHEST WATER LEVEL 45.04 FEET BELOW LAND SURFACE DATUM MAR 23, 1999.
LOWEST WATER LEVEL 50.17 FEET BELOW LAND SURFACE DATUM JUL 25, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 23 45.04 SEP 23 46.59

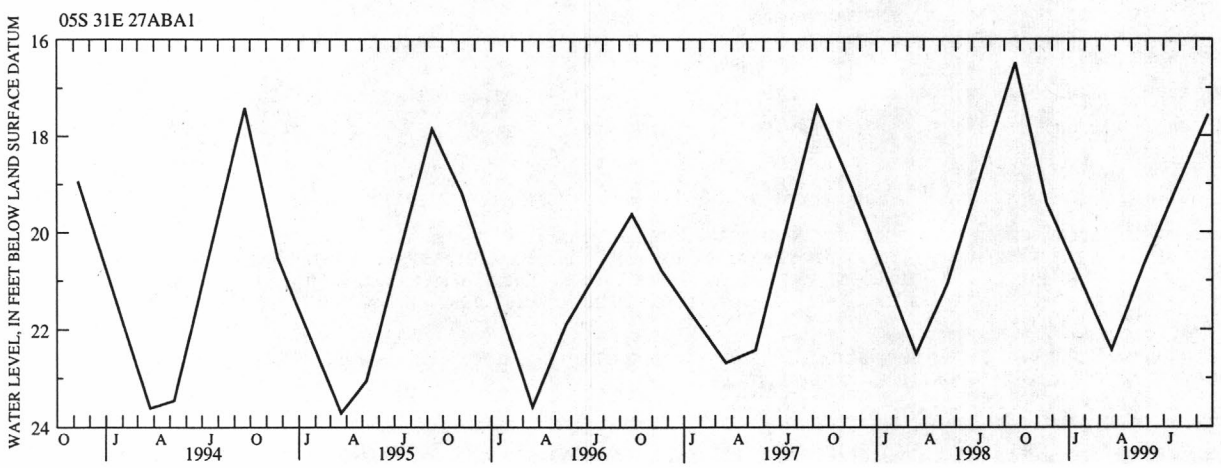
WELL NAME 05S 31E 27ABA1 SITE NUMBER 425757112485201

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 TO 12 IN, DEPTH 48.9 FT, CASED TO 16 FT. LATITUDE 42°57'57", LONGITUDE 112°48'52". LSD 4,399.83 FT ABOVE SEA LEVEL. MEASUREMENTS PRIOR TO 1952 MADE BY ABERDEEN-SPRINGFIELD CANAL CO. RECORDER INSTALLED JUL 16, 1952 TO SEP 15, 1988. MP NO. 2 EDGE OF CASING NORTHEAST SIDE, 0.50 FT ABOVE LSD (SINCE MAY 24, 1952).

RECORDS AVAILABLE 1945-1949, 1952 TO CURRENT YEAR.
HIGHEST WATER LEVEL 9.97 FEET BELOW LAND SURFACE DATUM AUG 16, 1968.
LOWEST WATER LEVEL 25.84 FEET BELOW LAND SURFACE DATUM APR 28, 1961.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 19.39 MAR 23 22.42 MAY 24 20.67 SEP 23 17.57



WELL NAME 06S 31E 16BAB1 SITE NUMBER 425427112503801

FORMERLY WELL NAME 06S 31E 16BAA1. DRILLED IRRIGATION WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 12 IN, DEPTH 134 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°54'27", LONGITUDE 112°50'38". LSD 4,392.21 FT ABOVE SEA LEVEL. MEASUREMENTS PRIOR TO 1952 MADE BY ABERDEEN-SPRINGFIELD CANAL CO. RECORDER INSTALLED OCT 04, 1952 TO MAY 18, 1955. MP NO. 3 TOP OF ACCESS HOLE IN NORTHWEST CORNER OF PUMPBASE, 0.25 FT ABOVE LSD (SINCE JUN 24, 1958).

RECORDS AVAILABLE 1944-1949, 1952 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.90 FEET BELOW LAND SURFACE DATUM AUG 28, 1944.
LOWEST WATER LEVEL 23.47 FEET BELOW LAND SURFACE DATUM SEP 25, 1985.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 23 16.69 SEP 23 16.34

BLAINE COUNTY

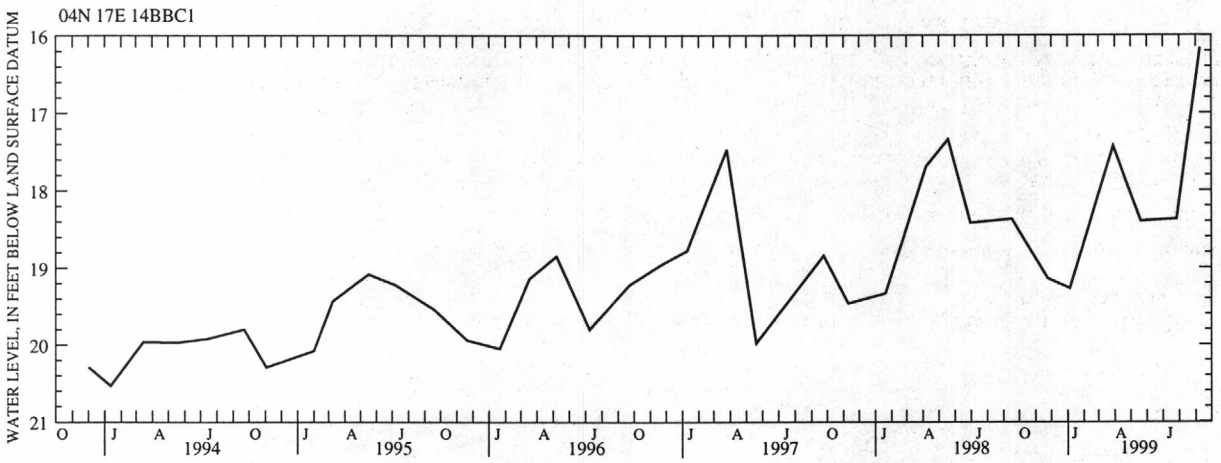
WELL NAME 04N 17E 14BBC1 SITE NUMBER 434104114241301

DRILLED UNUSED PUBLIC SUPPLY WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 10 TO 8 IN, DEPTH 50 FT, 8-IN CASING TO 48 FT. LATITUDE 43°41'04", LONGITUDE 114°24'13". LSD ABOUT 5,904 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, REMOVE BREATHER PIPE, 1.00 FT ABOVE LSD (SINCE AUG 19, 1983).

RECORDS AVAILABLE 1983 TO CURRENT YEAR.
HIGHEST WATER LEVEL 16.16 FEET BELOW LAND SURFACE DATUM SEP 10, 1999.
LOWEST WATER LEVEL 20.53 FEET BELOW LAND SURFACE DATUM JAN 12, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 24	19.14	JAN 05	19.27	MAR 29	17.43	MAY 20	18.40	JUL 27	18.37	SEP 10	16.16



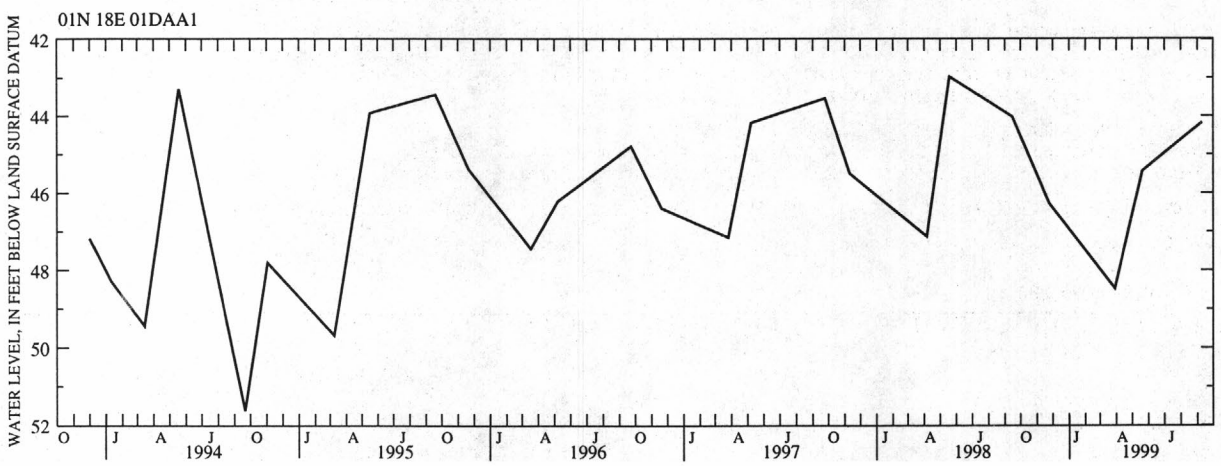
WELL NAME 01N 18E 01DAA1 SITE NUMBER 432657114144801

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN, DEPTH 84.8 FT, CASED TO 85 FT, PERFORATED 78-84 FT. LATITUDE 43°26'57", LONGITUDE 114°14'48". LSD 5,136.59 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUL 22, 1954 TO OCT 04, 1955, RECORDER INSTALLED MAY 21, 1975 TO DEC 10, 1976. RECORDER INSTALLED AUG 24, 1978 TO JUL 22, 1986. MP NO. 1 EDGE OF CASING WEST SIDE, 0.90 FT ABOVE LSD (SINCE JUL 22, 1954).

RECORDS AVAILABLE 1954 TO CURRENT YEAR.
HIGHEST WATER LEVEL 31.51 FEET BELOW LAND SURFACE DATUM JUN 19, 1965.
LOWEST WATER LEVEL 51.87 FEET BELOW LAND SURFACE DATUM MAR 23, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 24	46.27	MAR 29	48.47	MAY 20	45.43	SEP 10	44.17				



WELL NAME 01S 17E 17BBB1 SITE NUMBER 432028114282401

DRILLED STOCK WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 18 IN, DEPTH 153.6 FT, CASED TO 28 FT. LATITUDE 43°20'29", LONGITUDE 114°28'20". LSD ABOUT 4,938 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE SOUTHEAST SIDE, 0.52 FT ABOVE LSD (SINCE OCT 26, 1981).

RECORDS AVAILABLE 1977 TO CURRENT YEAR.
HIGHEST WATER LEVEL 34.66 FEET BELOW LAND SURFACE DATUM SEP 17, 1986.
LOWEST WATER LEVEL 51.18 FEET BELOW LAND SURFACE DATUM SEP 21, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 24 36.82 APR 02 37.10 MAY 19 35.95 SEP 07 35.30

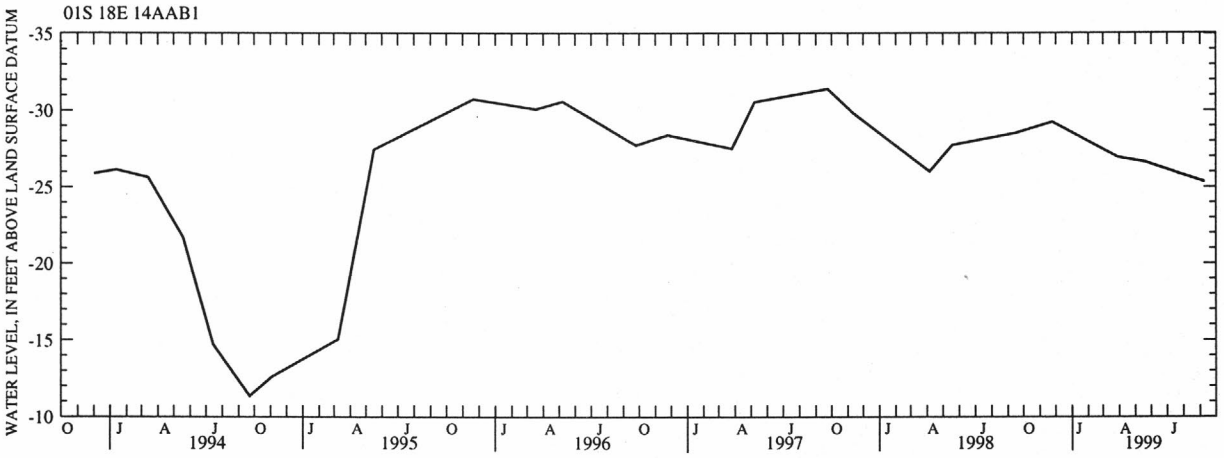
WELL NAME 01S 18E 14AAB1 SITE NUMBER 432042114163801

DRILLED IRRIGATION ARTESIAN WELL IN GRAVEL OF QUATERNARY AGE, DIAM 6 IN, DEPTH 120 FT, CASING DEPTH NOT AVAILABLE. LATITUDE 43°20'42", LONGITUDE 114°16'38". LSD 4,904.22 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF DISCHARGE PIPE, 3.74 FT ABOVE LSD (SINCE JUL 18, 1983).

RECORDS AVAILABLE 1954 TO CURRENT YEAR.
HIGHEST WATER LEVEL +46.47 FEET ABOVE LAND SURFACE DATUM JUN 27, 1958.
LOWEST WATER LEVEL +11.33 FEET ABOVE LAND SURFACE DATUM SEP 22, 1994.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 24 +29.23 MAR 29 +26.93 MAY 20 +26.63 SEP 10 +25.33



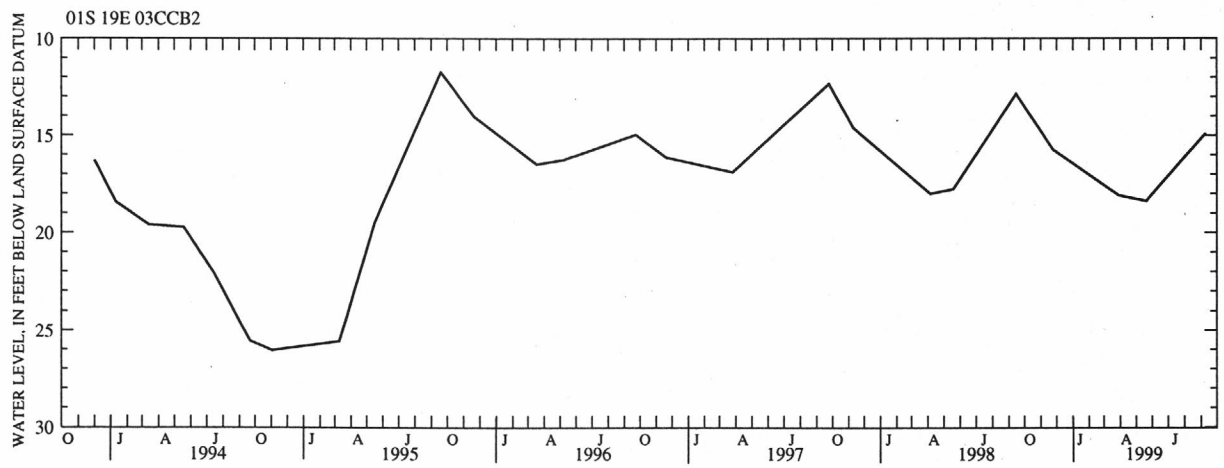
WELL NAME 01S 19E 03CCB2 SITE NUMBER 432143114114301

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN, DEPTH 51 FT, CASED TO 51 FT, PERFORATED 25-35 FT. LATITUDE 43°21'47", LONGITUDE 114°11'41". LSD 4,933.70 FT ABOVE SEA LEVEL. WATER LEVEL INFLUENCED BY NEARBY WELL BEING PUMPED. RECORDER INSTALLED JUL 29, 1954 TO JUL 15, 1992. MP NO. 2 EDGE OF CASING EAST SIDE, 1.50 FT ABOVE LSD (SINCE JUN 17, 1964).

RECORDS AVAILABLE 1954 TO CURRENT YEAR.
HIGHEST WATER LEVEL 2.55 FEET BELOW LAND SURFACE DATUM AUG 12, 1965.
LOWEST WATER LEVEL 26.05 FEET BELOW LAND SURFACE DATUM NOV 03, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 24 15.72 MAR 29 18.08 MAY 20 18.38 SEP 10 14.90



WELL NAME 01S 22E 09CCA2 SITE NUMBER 432053113511202

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 209 FT, 8-IN CASING TO 120 FT, 6-IN PVC CASING 0-209 FT, PERFORATED INTERVAL NOT AVAILABLE. LATITUDE 43°20'53", LONGITUDE 113°51'12". LSD ABOUT 4,863 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF 8-IN CASING NORTH SIDE, 1.05 FT ABOVE LSD (SINCE JAN 12, 1993).

RECORDS AVAILABLE 1992 TO CURRENT YEAR.
HIGHEST WATER LEVEL 82.08 FEET BELOW LAND SURFACE DATUM SEP 22, 1997.
LOWEST WATER LEVEL 178.83 FEET BELOW LAND SURFACE DATUM JAN 21, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 24 95.58 APR 02 98.40 MAY 18 84.66 SEP 09 P

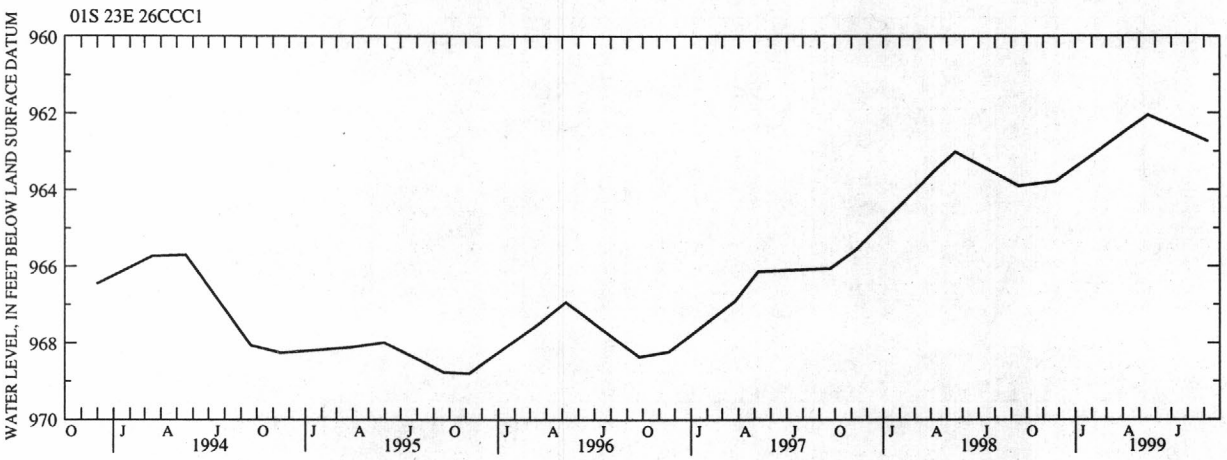
WELL NAME 01S 23E 26CCC1 SITE NUMBER 431810113413601

FORMERLY SITE NUMBER 431803113433001. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, DEPTH 1,030.7 FT, CASED TO 1,030.7 FT, PERFORATED 1,000.7-1,025.7 FT. LATITUDE 43°18'10", LONGITUDE 113°41'36". LSD ABOUT 5,030 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 2-IN PIPE COUPLING SOUTHWEST SIDE, 2.12 FT ABOVE LSD (SINCE SEP 19, 1972).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.
HIGHEST WATER LEVEL 946.97 FEET BELOW LAND SURFACE DATUM FEB 27, 1974.
LOWEST WATER LEVEL 968.80 FEET BELOW LAND SURFACE DATUM NOV 07, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 24 963.78 MAY 18 962.05 SEP 09 962.74



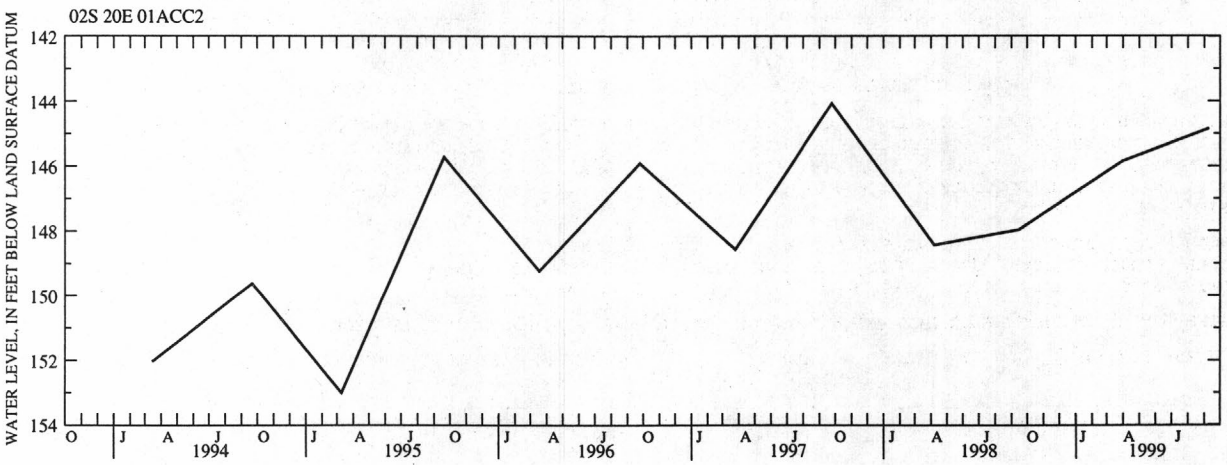
WELL NAME 02S 20E 01ACC2 SITE NUMBER 431642114013002

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 10 IN, DEPTH 208.6 FT, CASED TO 208 FT, PERFORATED 185-194 FT, 197-206 FT. LATITUDE 43°16'48", LONGITUDE 114°01'28". LSD 4,790.07 FT ABOVE SEA LEVEL. RECORDER INSTALLED AUG 17, 1955 TO AUG 20, 1971. MP NO. 1 EDGE OF CASING NORTHEAST SIDE, 1.20 FT ABOVE LSD (SINCE OCT 18, 1954).

RECORDS AVAILABLE 1954 TO CURRENT YEAR.
HIGHEST WATER LEVEL 125.04 FEET BELOW LAND SURFACE DATUM SEP 25, 1965.
LOWEST WATER LEVEL 153.31 FEET BELOW LAND SURFACE DATUM MAR 31, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 30 145.86 SEP 10 144.85



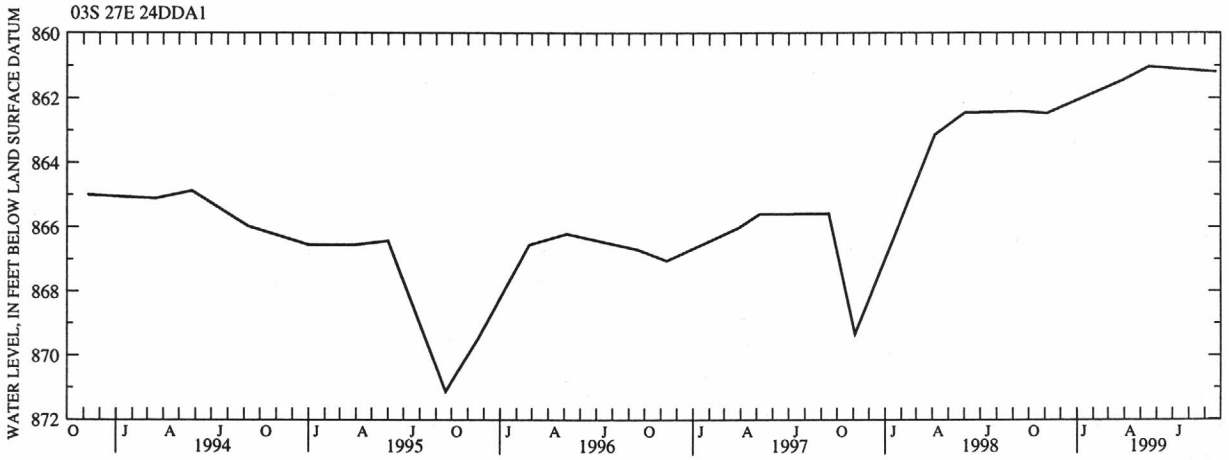
WELL NAME 03S 27E 24DDA1 SITE NUMBER 430836113143401

FORMERLY SITE NUMBER 430833113143601. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, DEPTH 900.7 FT, CASED TO 900.7 FT, PERFORATED 849-898 FT. LATITUDE 43°08'36", LONGITUDE 113°14'34". LSD 4,982.10 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 2-IN PIPE COUPLING, 2.35 FT ABOVE LSD (SINCE JUL 09, 1971).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.
HIGHEST WATER LEVEL 846.83 FEET BELOW LAND SURFACE DATUM MAY 29, 1973.
LOWEST WATER LEVEL 871.13 FEET BELOW LAND SURFACE DATUM SEP 19, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05 862.47 MAR 29 861.45 MAY 18 861.03 SEP 23 861.20



WELL NAME 07S 26E 14CCC1 SITE NUMBER 424826113233201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 747 FT, CASED TO 367 FT. LATITUDE 42°48'26", LONGITUDE 113°23'32". LSD 4,403.11 FT ABOVE SEA LEVEL. RECORDER INSTALLED SEP 17, 1980 TO OCT 22, 1985. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. NO. 1 EDGE OF CASING EAST SIDE, 1.44 FT ABOVE LSD (SINCE OCT 26, 1977).

RECORDS AVAILABLE 1977 TO CURRENT YEAR.
HIGHEST WATER LEVEL 307.35 FEET BELOW LAND SURFACE DATUM APR 15, 1987.
LOWEST WATER LEVEL 327.54 FEET BELOW LAND SURFACE DATUM SEP 18, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 22	322.44	DEC 22	321.30	FEB 22	320.63	APR 23	319.79	JUN 23	321.42	AUG 23	322.02
NOV 23	321.53	JAN 21	320.96	APR 01	319.91	MAY 26	319.74	JUL 21	321.76	SEP 20	322.14

WELL NAME 08S 26E 03DCC1 SITE NUMBER 424454113240101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 746 FT, CASED TO 334 FT. LATITUDE 42°44'54", LONGITUDE 113°24'01". LSD 4,346.52 FT ABOVE SEA LEVEL. RECORDER INSTALLED SEP 17, 1980 TO OCT 22, 1985. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. NO. 1 EDGE OF CASING, 1.31 FT ABOVE LSD (SINCE OCT 14, 1977).

RECORDS AVAILABLE 1977 TO CURRENT YEAR.
HIGHEST WATER LEVEL 253.19 FEET BELOW LAND SURFACE DATUM APR 15, 1987.
LOWEST WATER LEVEL 273.41 FEET BELOW LAND SURFACE DATUM SEP 18, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 22	268.17	DEC 17	266.80	FEB 23	266.14	APR 23	265.45	JUN 23	266.45	AUG 23	268.09
NOV 23	267.20	JAN 21	266.57	APR 01	265.56	MAY 26	265.48	JUL 21	267.93	SEP 20	268.10

WELL NAME 08S 26E 33BCB1 SITE NUMBER 424112113255401

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 242 FT, 8-IN CASING TO 146 FT, 6-IN CASING 142-242 FT, PERFORATED 212-242 FT. LATITUDE 42°41'12", LONGITUDE 113°25'54". LSD 4,212.73 FT ABOVE SEA LEVEL. RECORDER INSTALLED, AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION SEP 25, 1951 TO AUG 09, 1972. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 TOP OF ACCESS HOLE EAST SIDE, 1.03 FT ABOVE LSD (SINCE JUL 23, 1975).

RECORDS AVAILABLE 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 97.07 FEET BELOW LAND SURFACE DATUM SEP 10, 1952.
LOWEST WATER LEVEL 123.17 FEET BELOW LAND SURFACE DATUM MAR 20, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 25	117.54	JAN 22	118.65	APR 02	119.05	MAY 26	118.20	JUL 22	117.72	SEP 20	117.03

WELL NAME 08S 26E 33BCB2 SITE NUMBER 424112113255402

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 IN, DEPTH 33 FT, CASED TO 1 FT, CONCRETE SEAL 33-34 FT. LATITUDE 42°41'12", LONGITUDE 113°25'54". LSD 4,212.73 FT ABOVE SEA LEVEL. MEASUREMENTS PRIOR TO MAR 21, 1972 MADE BY U.S. BUREAU OF RECLAMATION. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 TOP OF ACCESS HOLE SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE JUL 23, 1975).

RECORDS AVAILABLE 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 20.49 FEET BELOW LAND SURFACE DATUM MAY 15, 1986.
LOWEST WATER LEVEL 28.19 FEET BELOW LAND SURFACE DATUM JAN 10, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 25 25.70 JAN 22 26.22 APR 02 23.20 MAY 26 22.09 JUL 22 21.79 SEP 20 21.68

WELL NAME 08S 27E 07DBC1 SITE NUMBER 424419113201801

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 TO 14 IN, DEPTH 390 FT, 14-IN CASING TO 18 FT, 12-IN CASING 0-70 FT. LATITUDE 42°44'19", LONGITUDE 113°20'18". LSD ABOUT 4,325 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTHEAST SIDE, 0.80 FT ABOVE LSD (SINCE APR 30, 1952).

RECORDS AVAILABLE 1952-1953, 1966, 1972, 1980, 1994 TO CURRENT YEAR.
HIGHEST WATER LEVEL 165.05 FEET BELOW LAND SURFACE DATUM OCT 27, 1953.
LOWEST WATER LEVEL 186.57 FEET BELOW LAND SURFACE DATUM AUG 19, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 25 172.53 MAR 25 171.49 MAY 12 171.29 SEP 23 173.78

WELL NAME 08S 27E 23DDD1 SITE NUMBER 424221113152501

DRILLED STOCK WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 92.09 FT, CASED TO 85 FT. LATITUDE 42°42'21", LONGITUDE 113°15'25". LSD 4,296.34 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE, 0.60 FT ABOVE LSD (SINCE MAR 17, 1980).

RECORDS AVAILABLE 1956 TO CURRENT YEAR.
HIGHEST WATER LEVEL 71.26 FEET BELOW LAND SURFACE DATUM OCT 18, 1956.
LOWEST WATER LEVEL 79.17 FEET BELOW LAND SURFACE DATUM NOV 12, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 25 76.67P MAR 25 75.78R MAY 12 75.51P SEP 23 75.88P

WELL NAME 08S 27E 31DDA1 SITE NUMBER 424042113201101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 140 FT, CASED TO 86 FT. LATITUDE 42°40'40", LONGITUDE 113°20'10". LSD 4,202.47 FT ABOVE SEA LEVEL. RECORDER INSTALLED AUG 17, 1951 TO SEP 12, 1962. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF CASING EAST SIDE, 1.00 FT ABOVE LSD (SINCE AUG 17, 1951).

RECORDS AVAILABLE 1951-1972, 1977-1978, 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL 19.63 FEET BELOW LAND SURFACE DATUM OCT 21, 1951.
LOWEST WATER LEVEL 35.22 FEET BELOW LAND SURFACE DATUM JAN 10, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 23 32.49 JAN 22 32.74 APR 02 30.50 MAY 26 29.89 JUL 22 29.88 SEP 20 30.18

BONNEVILLE COUNTY

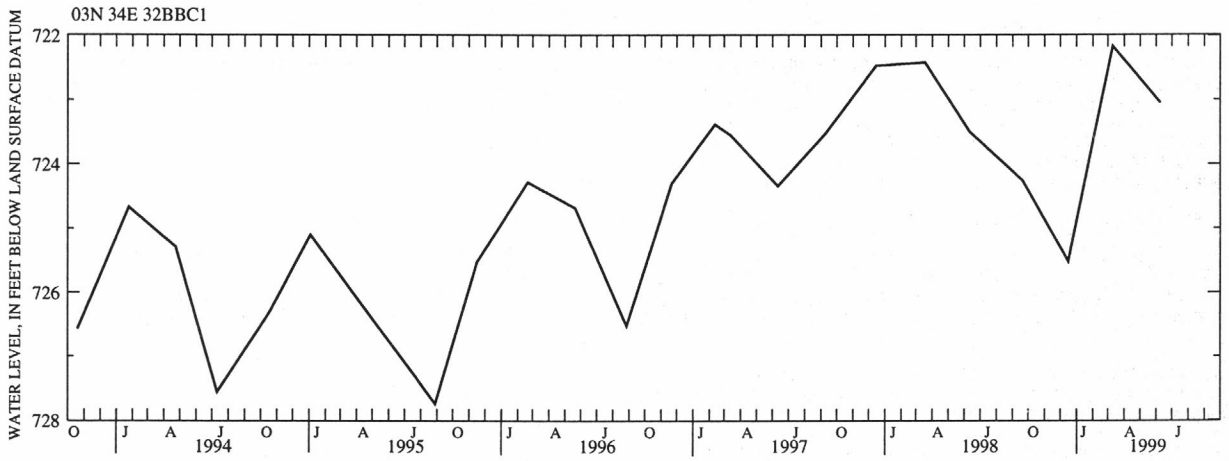
WELL NAME 03N 34E 32BBC1 SITE NUMBER 433307112300001

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 786 FT, CASED TO 786 FT, PERFORATED 741-786 FT, GRAVEL PACKED 0-786 FT. LATITUDE 43°33'07", LONGITUDE 112°30'00". LSD 5,216.55 FT ABOVE SEA LEVEL. JUL 26, 1957, WELL HAD FILLED IN TO A DEPTH OF 720.6 FT. MAY 27, 1964, WELL WAS CLEANED TO A DEPTH OF 786 FT. MP NO. 3 EDGE OF CASING NORTHEAST SIDE, 1.46 FT ABOVE LSD (SINCE MAY 27, 1964).

RECORDS AVAILABLE 1950 TO CURRENT YEAR.
HIGHEST WATER LEVEL 716.67 FEET BELOW LAND SURFACE DATUM JAN 17, 1973.
LOWEST WATER LEVEL 727.77 FEET BELOW LAND SURFACE DATUM JUL 15, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 725.52 MAR 10 722.17 JUN 09 723.05



WELL NAME 03N 37E 02CBD1 SITE NUMBER 433656112043901

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 TO 18 IN, DEPTH 508 FT, 20-IN CASING TO 18 FT, 18-IN CASING 217-270 FT. LATITUDE 43°36'56", LONGITUDE 112°04'39". LSD 4,815.97 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 0.50 FT ABOVE LSD (SINCE MAY 20, 1957)

RECORDS AVAILABLE 1957 TO CURRENT YEAR.
HIGHEST WATER LEVEL 145.47 FEET BELOW LAND SURFACE DATUM SEP 17, 1973.
LOWEST WATER LEVEL 176.90 FEET BELOW LAND SURFACE DATUM MAY 20, 1957.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 11 171.70 SEP 22 147.09

WELL NAME 03N 37E 12BDB1 SITE NUMBER 433625112031801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 550 FT, CASED TO 200 FT. LATITUDE 43°36'25", LONGITUDE 112°03'18". LSD 4,752.09 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 02, 1980 TO NOV 21, 1985. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF CASING WEST SIDE AT LSD (SINCE SEP 24, 1980).

RECORDS AVAILABLE 1976-1977, 1979 TO CURRENT YEAR.
HIGHEST WATER LEVEL 100.40 FEET BELOW LAND SURFACE DATUM SEP 18, 1996.
LOWEST WATER LEVEL 141.95 FEET BELOW LAND SURFACE DATUM MAY 08, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 20	104.63	DEC 16	118.57	FEB 18	128.40	APR 21	133.65	JUN 15	122.78	AUG 16	105.09
NOV 18	111.82	JAN 20	124.63	MAR 15	133.19	MAY 20	132.09	JUL 22	112.10	SEP 13	102.10

BONNEVILLE COUNTY--continued

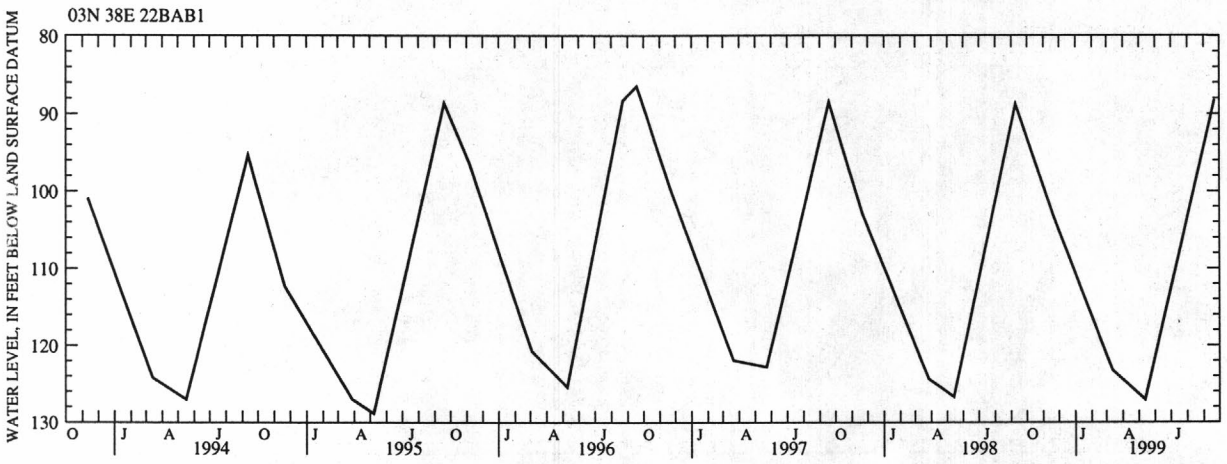
WELL NAME 03N 38E 22BAB1 SITE NUMBER 433457111583701

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 155 FT, CASED TO 66 FT. LATITUDE 43°34'57", LONGITUDE 111°58'37". LSD ABOUT 4,790 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTH SIDE, 1.90 FT ABOVE LSD (SINCE SEP 19, 1973).

RECORDS AVAILABLE 1973 TO CURRENT YEAR.
HIGHEST WATER LEVEL 86.48 FEET BELOW LAND SURFACE DATUM SEP 18, 1996.
LOWEST WATER LEVEL 131.28 FEET BELOW LAND SURFACE DATUM MAY 12, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 103.12 MAR 12 123.25 MAY 13 127.09 SEP 22 88.22



WELL NAME 03N 40E 08BAA1 SITE NUMBER 433638111462901

DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 18 TO 8 IN, DEPTH 425 FT, 18-IN CASING TO 380 FT, 8-IN CASING 380-435 FT. LATITUDE 43°36'38", LONGITUDE 111°46'29". LSD 5,042.60 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF ACCESS HOLE SOUTH SIDE, 2.53 FT ABOVE LSD (SINCE OCT 27, 1969).

RECORDS AVAILABLE 1957 TO CURRENT YEAR.
HIGHEST WATER LEVEL 124.20 FEET BELOW LAND SURFACE DATUM SEP 18, 1996.
LOWEST WATER LEVEL 184.29 FEET BELOW LAND SURFACE DATUM APR 27, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 12 167.40 SEP 22 126.67

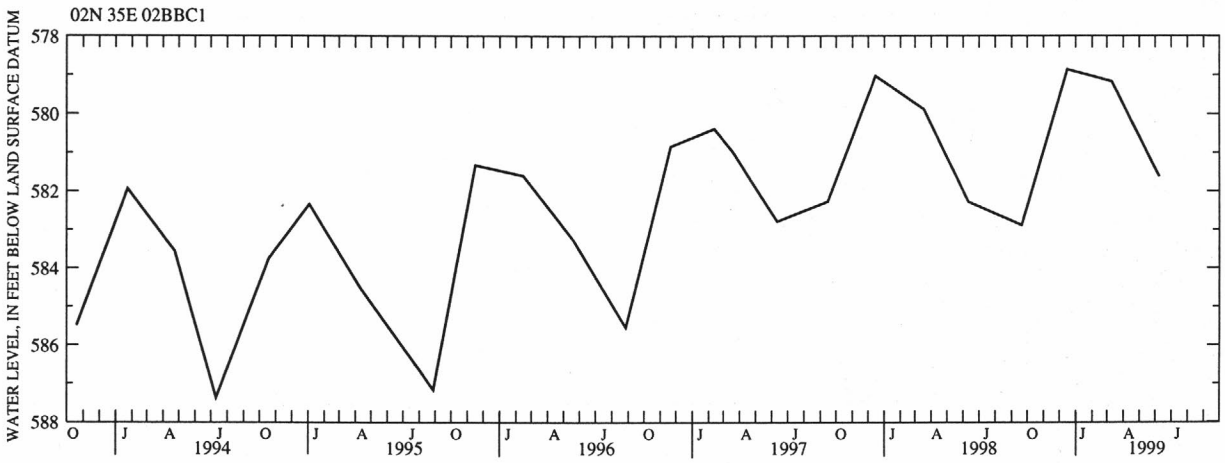
WELL NAME 02N 35E 02BBC1 SITE NUMBER 433218112191601

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 10 IN, DEPTH 682.5 FT, CASED TO 108 FT. LATITUDE 43°32'18", LONGITUDE 112°19'16". LSD 5,089.83 FT ABOVE SEA LEVEL. JUL 01, 1969, WELL DEEPENED TO A DEPTH OF 800 FT, DIAM 3 IN, 3/4-IN PIEZOMETER TUBE TO 651 FT, PERFORATED 643.5-648.5 FT, GRAVEL FILL 651-800 FT. MP NO. 2 EDGE OF 10-IN CASING NORTHWEST SIDE, 1.18 FT ABOVE LSD (SINCE JAN 27, 1972).

RECORDS AVAILABLE 1950 TO CURRENT YEAR.
HIGHEST WATER LEVEL 573.29 FEET BELOW LAND SURFACE DATUM JAN 17, 1973.
LOWEST WATER LEVEL 588.17 FEET BELOW LAND SURFACE DATUM JUL 15, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 578.86 MAR 10 579.16 JUN 09 581.62



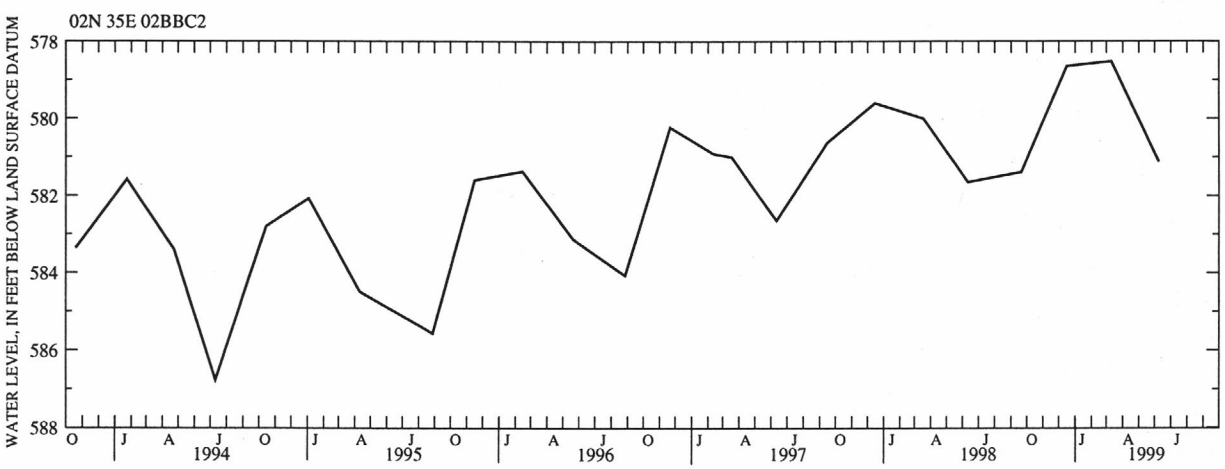
WELL NAME 02N 35E 02BBC2 SITE NUMBER 433218112191602

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 982 FT, 3/4-IN PIEZOMETER TUBE TO 917 FT, PERFORATED 909.5-914.5 FT, GRAVEL FILL 883-982 FT, CONCRETE SEAL 800-883 FT. LATITUDE 43°32'18", LONGITUDE 112°19'16". LSD 5,089.83 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF 10-IN CASING NORTHWEST SIDE, 1.18 FT ABOVE LSD (SINCE JUL 23, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 573.26 FEET BELOW LAND SURFACE DATUM NOV 24, 1973.
LOWEST WATER LEVEL 587.21 FEET BELOW LAND SURFACE DATUM JUL 15, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 578.64 MAR 10 578.51 JUN 09 581.12



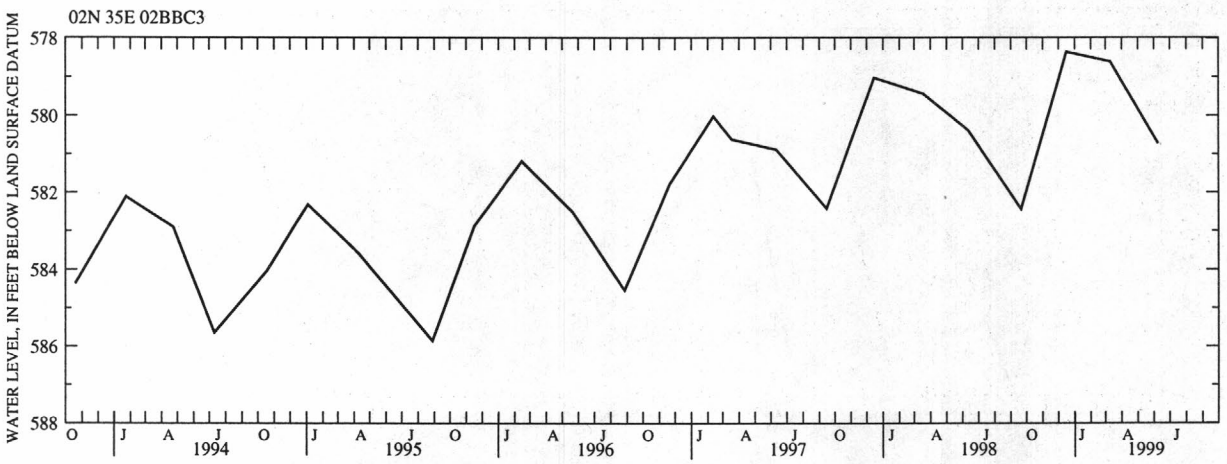
WELL NAME 02N 35E 02BBC3 SITE NUMBER 433218112191603

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 1,147 FT, 3/4-IN PIEZOMETER TUBE TO 1,125 FT, PERFORATED 1,117.5-1,122.5 FT, GRAVEL FILL 1,038-1,147 FT, CONCRETE SEAL 982-1,038 FT. LATITUDE 43°32'18", LONGITUDE 112°19'16". LSD 5,089.83 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF 10-IN CASING NORTHWEST SIDE, 1.18 FT ABOVE LSD (SINCE JUL 23, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 573.51 FEET BELOW LAND SURFACE DATUM JAN 17, 1973.
LOWEST WATER LEVEL 586.14 FEET BELOW LAND SURFACE DATUM JUL 15, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 578.36 MAR 10 578.61 JUN 09 580.73



WELL NAME 02N 37E 02ABA1 SITE NUMBER 433220112040701

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 501.5 FT, CASED TO 223 FT, CONCRETE SEAL 218-223 FT. LATITUDE 43°32'20", LONGITUDE 112°04'07". LSD 4,724.93 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 01, 1980 TO NOV 21, 1985. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF CASING SOUTH SIDE AT LSD (SINCE SEP 25, 1980).

RECORDS AVAILABLE 1975 TO CURRENT YEAR.
HIGHEST WATER LEVEL 143.40 FEET BELOW LAND SURFACE DATUM NOV 17, 1975.
LOWEST WATER LEVEL 174.76 FEET BELOW LAND SURFACE DATUM MAY 15, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 20	147.62	DEC 16	155.36	FEB 18	163.45	APR 21	168.79	JUN 15	164.08	AUG 16	156.43
NOV 18	150.12	JAN 20	159.88	MAR 15	165.92	MAY 20	169.55	JUL 22	162.34	SEP 13	152.10

WELL NAME 02N 38E 16ADD1 SITE NUMBER 433029111590201

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 4 IN, DEPTH 225 FT, 6-IN CASING TO 4 FT, 4-IN CASING 0-185 FT. LATITUDE 43°30'29", LONGITUDE 111°59'02". LSD ABOUT 4,738 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 6-IN CASING NORTH SIDE, 0.70 FT ABOVE LSD (SINCE FEB 09, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 95.88 FEET BELOW LAND SURFACE DATUM AUG 14, 1978.
LOWEST WATER LEVEL 129.11 FEET BELOW LAND SURFACE DATUM MAY 22, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 11 121.26 SEP 23 100.69

BONNEVILLE COUNTY--continued

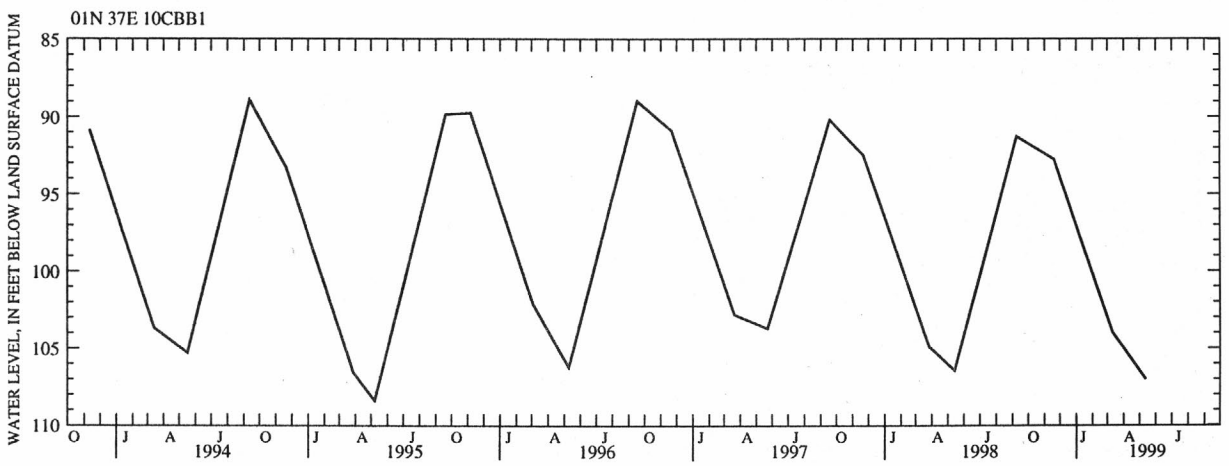
WELL NAME 01N 37E 10CBB1 SITE NUMBER 432550112060601

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 148 FT, 8-IN CASING TO 132 FT, 6-IN CASING TO 128 FT. LATITUDE 43°25'50", LONGITUDE 112°06'06". LSD ABOUT 4,648 FT ABOVE SEA LEVEL. MP NO. 1 LIP OF 1.1 FT HOLE, 7.2 FT ABOVE WELL SOUTH SIDE, 0.59 FT ABOVE LSD (SINCE MAR 20, 1987).

RECORDS AVAILABLE 1957, 1987 TO CURRENT YEAR.
HIGHEST WATER LEVEL 83.03 FEET BELOW LAND SURFACE DATUM SEP 30, 1988.
LOWEST WATER LEVEL 108.68 FEET BELOW LAND SURFACE DATUM MAY 12, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 92.76 MAR 11 104.00 MAY 13 107.01



BUTTE COUNTY

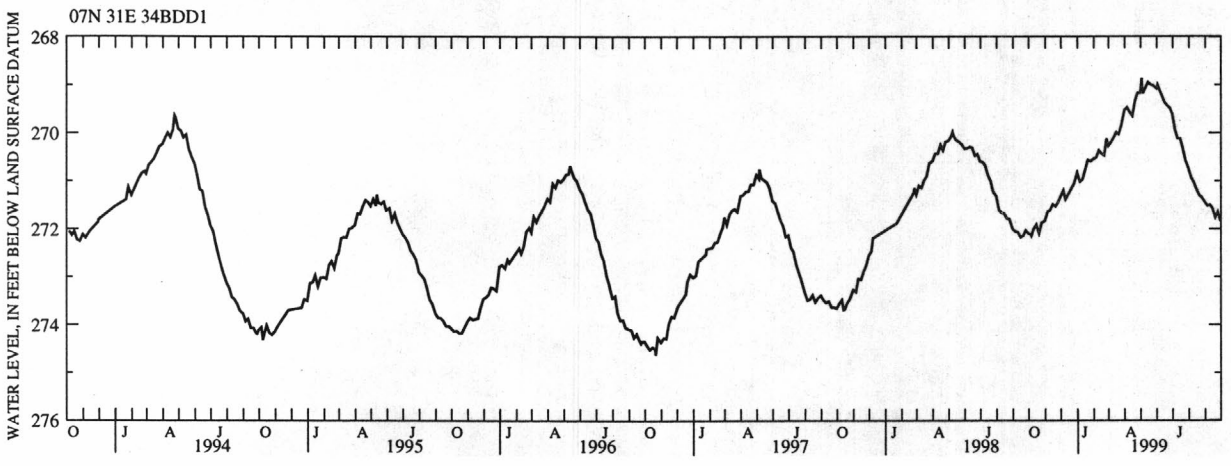
WELL NAME 07N 31E 34BDD1 SITE NUMBER 435339112444601

FORMERLY SITE NUMBER 435340112444901, WELL NAME 07N 31E 34BDC1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 320 FT, CASED TO 320 FT, PERFORATED 285-320 FT. LATITUDE 43°53'39", LONGITUDE 112°44'46". LSD 4,848.47 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 15, 1952 TO OCT 13, 1954, RECORDER INSTALLED MAY 12, 1961. MP NO. 2 EDGE OF CASING NORTHEAST SIDE, 2.40 FT ABOVE LSD (SINCE OCT 15, 1952).

RECORDS AVAILABLE 1952 TO CURRENT YEAR.
HIGHEST WATER LEVEL 260.12 FEET BELOW LAND SURFACE DATUM MAY 06, 1988.
LOWEST WATER LEVEL 274.63 FEET BELOW LAND SURFACE DATUM OCT 21, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 05	272.12	NOV 30	271.32	FEB 10	270.37	APR 10	269.57	JUN 02	269.00	AUG 10	271.03
06	272.14	DEC 05	271.20	15	270.43	15	269.65	15	269.36	15	271.17
10	272.00	09	271.38	20	270.47	20	269.35	20	269.43	20	271.30
15	271.91	25	271.05	25	270.12	25	269.17	25	269.48	25	271.34
20	272.09	31	270.83	28	270.27	30	269.17	30	269.61	31	271.45
25	271.87	JAN 05	271.01	MAR 05	270.20	MAY 03	268.87	JUL 05	269.94	SEP 05	271.52
31	271.83	10	270.97	10	270.11	05	269.18	10	270.12	10	271.50
NOV 05	271.64	15	270.77	15	269.99	10	269.06	15	270.12	15	271.58
10	271.61	20	270.57	20	270.03	15	268.95	20	270.34	20	271.76
15	271.49	25	270.59	25	269.85	20	269.00	25	270.57	25	271.65
20	271.53	31	270.54	31	269.53	25	269.02	31	270.75	30	271.84
25	271.45	FEB 05	270.51	APR 05	269.47	31	269.08	AUG 05	270.94		



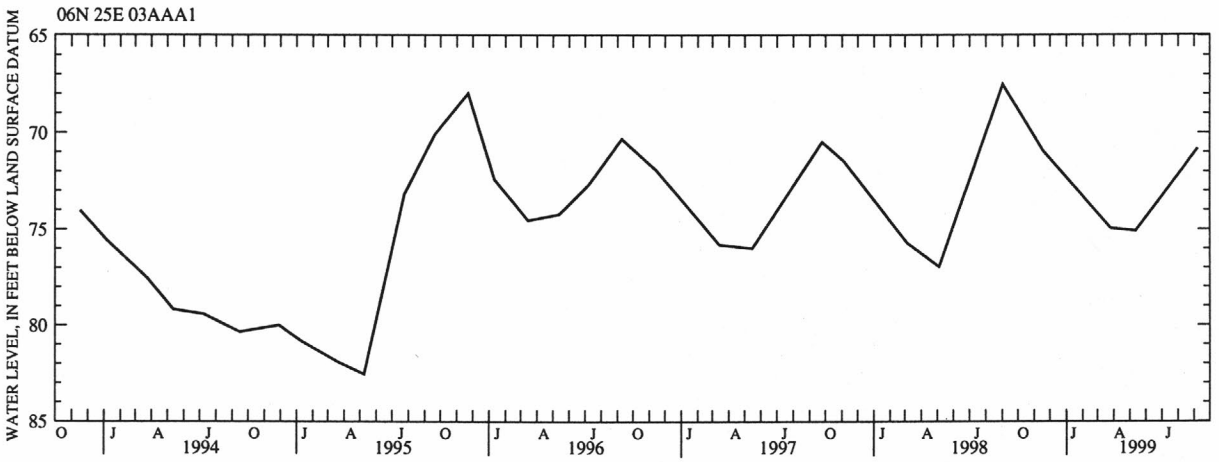
WELL NAME 06N 25E 03AAA1 SITE NUMBER 435313113272301

DRILLED UNUSED WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 4 IN, DEPTH 91.7 FT, CASED TO 91.7 FT. LATITUDE 43°53'13", LONGITUDE 113°27'23". LSD ABOUT 5,760 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 01, 1966 TO SEP 27, 1971. MP NO. 1 EDGE OF CASING, NORTHEAST SIDE, 0.80 FT ABOVE LSD (SINCE SEP 09, 1966).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL 63.97 FEET BELOW LAND SURFACE DATUM SEP 01, 1974.
LOWEST WATER LEVEL 83.28 FEET BELOW LAND SURFACE DATUM MAY 13, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 18 70.95 MAR 26 74.96 MAY 12 75.09 SEP 08 70.82



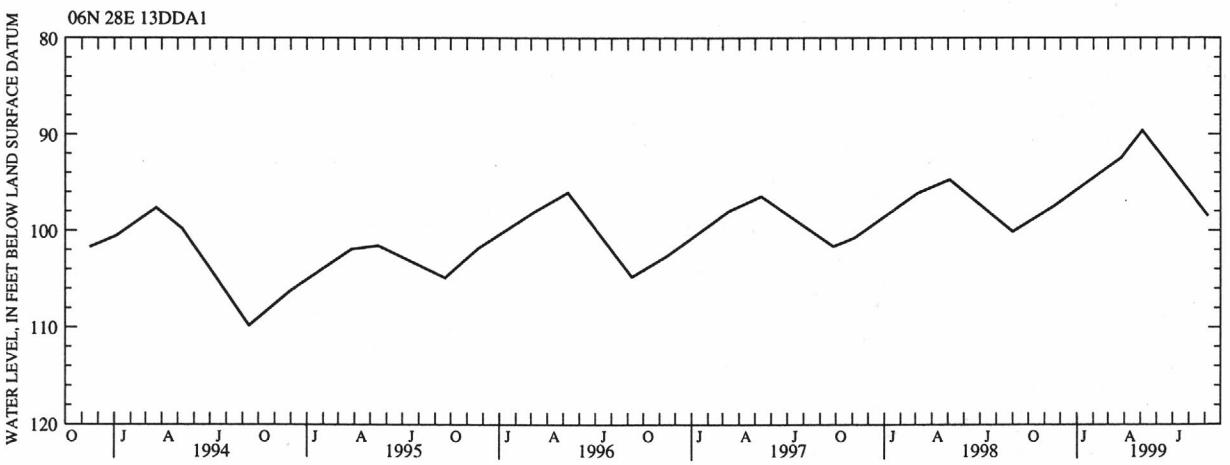
WELL NAME 06N 28E 13DDA1 SITE NUMBER 435045113031701

DRILLED UNUSED IRRIGATION WATER-TABLE WELL IN GRAVEL OF QUATERNARY AGE, DIAM 16 IN, DEPTH 201 FT, PERFORATED 100-201 FT. LATITUDE 43°50'45", LONGITUDE 113°03'17". LSD ABOUT 4,945 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF CASING NORTH SIDE, 0.50 FT ABOVE LSD (SINCE NOV 29, 1994).

RECORDS AVAILABLE 1964 TO CURRENT YEAR.
HIGHEST WATER LEVEL 88.49 FEET BELOW LAND SURFACE DATUM MAR 03, 1987.
LOWEST WATER LEVEL 112.61 FEET BELOW LAND SURFACE DATUM MAR 21, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 17 97.50 MAR 26 92.41 MAY 05 89.60 SEP 07 98.49



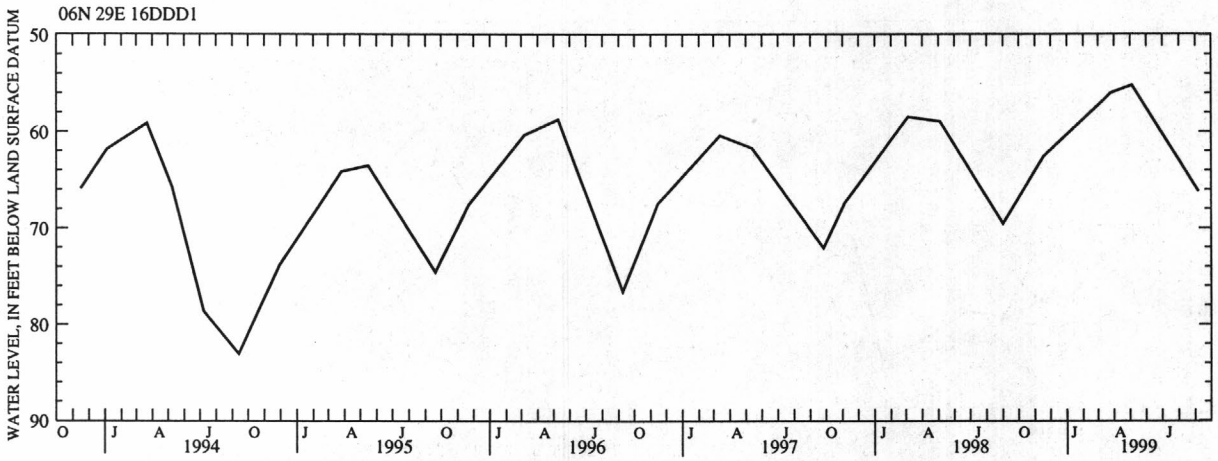
WELL NAME 06N 29E 16DDD1 SITE NUMBER 435033112593701

FORMERLY SITE NUMBER 435032112594001. DRILLED DOMESTIC WATER-TABLE WELL IN SAND AND GRAVEL OF TERNARY AGE, DIAM 6 IN, DEPTH 101 FT, CASED TO 101 FT, PERFORATED 94-99 FT. LATITUDE 43°50'33", LONGITUDE 112°59'37". LSD ABOUT 4,865 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF CASING EAST SIDE, 1.00 FT ABOVE LSD (SINCE NOV 19, 1963).

RECORDS AVAILABLE 1959 TO CURRENT YEAR.
HIGHEST WATER LEVEL 51.11 FEET BELOW LAND SURFACE DATUM MAR 12, 1985.
LOWEST WATER LEVEL 83.05 FEET BELOW LAND SURFACE DATUM SEP 13, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 17 62.55 MAR 26 56.03 MAY 05 55.23 SEP 07 66.20



WELL NAME 06N 31E 27BDD1 SITE NUMBER 434915112443901

FORMERLY SITE NUMBER 434930112443901, WELL NAME 06N 31E 27BAD1.DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 775 FT, CASED TO 760 FT, PERFORATED 241-261 FT. LATITUDE 43°49'15", LONGITUDE 112°44'39". LSD 4,790.17 FT ABOVE SEA LEVEL. AUG 1952, WELL WAS DEEPENED TO A DEPTH OF 1,200 FT, LATER CAVED TO 903 FT. RECORDER INSTALLED MAY 13, 1950 TO MAY 02, 1956. MP NO. 4 EDGE OF 1-IN COUPLING, 1.68 FT ABOVE LSD (SINCE JUL 11, 1990).

RECORDS AVAILABLE 1950 TO CURRENT YEAR.
HIGHEST WATER LEVEL 204.31 FEET BELOW LAND SURFACE DATUM MAY 01, 1987.
LOWEST WATER LEVEL 220.24 FEET BELOW LAND SURFACE DATUM JUN 26, 1952.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 15 214.98 JAN 05 214.08 APR 19 212.76 JUL 19 213.41

WELL NAME 05N 26E 05DCB1 SITE NUMBER 434713113230601

DRILLED UNUSED WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 20 IN, DEPTH 260 FT, CASED TO 60 FT. LATITUDE 43°47'13", LONGITUDE 113°23'06". LSD ABOUT 5,592 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF CASING SOUTH SIDE, 0.30 FT ABOVE LSD (SINCE JUL 16, 1985).

RECORDS AVAILABLE 1967-1968, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 18.12 FEET BELOW LAND SURFACE DATUM JUL 18, 1967.
LOWEST WATER LEVEL 77.47 FEET BELOW LAND SURFACE DATUM JUN 26, 1952.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 18 52.95 MAR 26 59.39 MAY 06 57.02 SEP 07 52.58

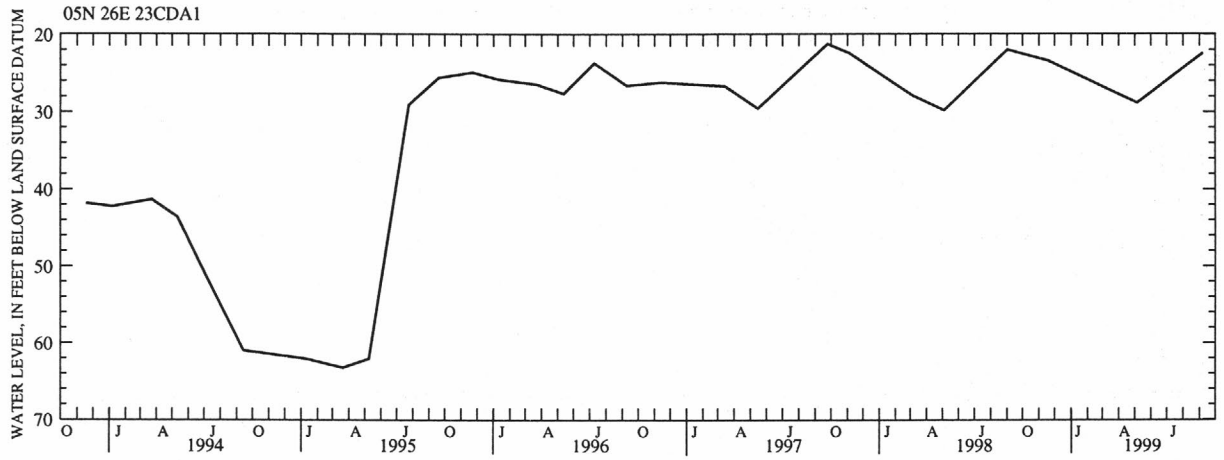
WELL NAME 05N 26E 23CDA1 SITE NUMBER 434436113193901

FORMERLY SITE NUMBER 434442113195101, WELL NAME 05N 26E 23CDB1. DRILLED UNUSED IRRIGATION WATER-TABLE WELL IN GRAVEL OF QUATERNARY AGE, DIAM 20 TO 16 IN, DEPTH 197.6 FT, CASING DEPTH NOT AVAILABLE, PERFORATED IN GRAVEL. LATITUDE 43°44'36", LONGITUDE 113°19'39". LSD 5,488.02 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF 20-IN CASING WEST SIDE, 0.45 FT BELOW LSD (SINCE OCT 07, 1959).

RECORDS AVAILABLE 1950 TO CURRENT YEAR.
HIGHEST WATER LEVEL 14.13 FEET BELOW LAND SURFACE DATUM SEP 24, 1971.
LOWEST WATER LEVEL 71.00 FEET BELOW LAND SURFACE DATUM NOV 10, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 18 23.37 MAR 26 27.56 MAY 06 28.85 SEP 07 22.43



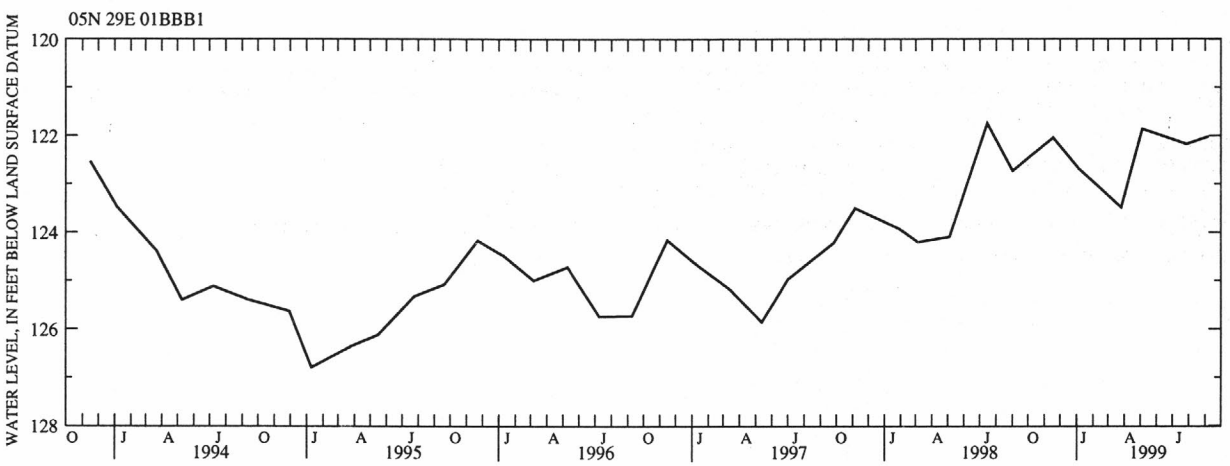
WELL NAME 05N 29E 01BBB1 SITE NUMBER 434751112571801

FORMERLY SITE NUMBER 434745112571501. DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 154 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°47'51", LONGITUDE 112°57'18". LSD ABOUT 4,808 FT ABOVE SEA LEVEL. APR 04, 1966, WELL DEPTH SOUNDED AT 148.8 FT. MP NO. 2 EDGE OF CASING EAST SIDE, 1.20 FT ABOVE LSD (SINCE APR 04, 1966).

RECORDS AVAILABLE 1959, 1965 TO CURRENT YEAR.
HIGHEST WATER LEVEL 115.38 FEET BELOW LAND SURFACE DATUM NOV 12, 1971.
LOWEST WATER LEVEL 126.80 FEET BELOW LAND SURFACE DATUM JAN 10, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 17 122.04 JAN 05 122.69 MAR 26 123.49 MAY 05 121.86 JUL 28 122.17 SEP 07 122.02



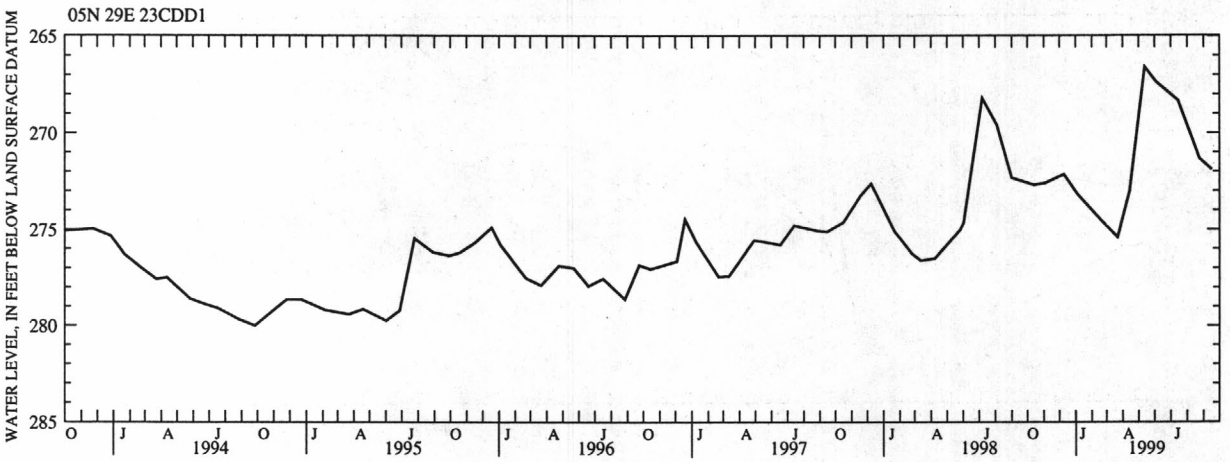
WELL NAME 05N 29E 23CDD1 SITE NUMBER 434426112575701

FORMERLY SITE NUMBER 434430112575901, WELL NAME 05N 29E 23CDA1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 399.2 FT, CASED TO 399 FT, PERFORATED 285-306 FT. LATITUDE 43°44'26", LONGITUDE 112°57'57". LSD 4,800.06 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 15, 1952 TO NOV 02, 1970. RECORDER INSTALLED SEP 11, 1975 TO SEP 06, 1990. MP NO. 2 EDGE OF 1 1/2-IN COUPLING, 2.08 FT ABOVE LSD (SINCE SEP 07, 1990).

RECORDS AVAILABLE 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 251.05 FEET BELOW LAND SURFACE DATUM DEC 08, 1984.
LOWEST WATER LEVEL 280.02 FEET BELOW LAND SURFACE DATUM SEP 26, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 14	272.70	DEC 09	272.15	FEB 17	274.50	APR 14	273.01	JUN 03	267.35	AUG 24	271.34
NOV 04	272.61	JAN 05	273.21	MAR 22	275.42	MAY 13	266.60	JUL 15	268.34	SEP 16	271.90



WELL NAME 05N 31E 28CCC1 SITE NUMBER 434334112463101

DRILLED INDUSTRIAL WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12 TO 8 IN, DEPTH 716.7 FT, 12-IN CASING TO 339.7 FT, 10-IN CASING 320-376.6 FT, 8-IN CASING 313.1-535 FT. LATITUDE 43°43'34", LONGITUDE 112°46'31". LSD 4,793.52 FT ABOVE SEA LEVEL. RECORDER INSTALLED JAN 13, 1965 TO SEP 11, 1975. MP NO. 3 EDGE OF 1-IN PIPE COUPLING, 2.23 FT ABOVE LSD (SINCE JUN 12, 1992).

RECORDS AVAILABLE 1956 TO CURRENT YEAR.
HIGHEST WATER LEVEL 256.45 FEET BELOW LAND SURFACE DATUM DEC 23, 1986.
LOWEST WATER LEVEL 276.22 FEET BELOW LAND SURFACE DATUM AUG 25, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 19	268.86	JAN 05	266.57	APR 20	265.83	JUL 19	266.85

WELL NAME 04N 26E 21ABB1 SITE NUMBER 434001113215201

FORMERLY SITE NUMBER 434004113220101. DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF TERNARY AGE, DIAM 8 TO 4 IN, DEPTH 759.6 FT, 8-IN CASING 0-431 FT, 6-IN CASING 0-650 FT, 4-IN CASING 633-760 FT, PERFORATED 656-661 FT, 665-690 FT, JOHNSON NEOPRENE PACKER SET AT 633.5 FT. LATITUDE 43°40'01", LONGITUDE 113°21'52". LSD ABOUT 5,390 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF 6-IN CASING NORTH SIDE, 2.20 FT ABOVE LSD (SINCE MAR 22, 1990).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 578.40 FEET BELOW LAND SURFACE DATUM MAR 26, 1985.
LOWEST WATER LEVEL 609.74 FEET BELOW LAND SURFACE DATUM SEP 08, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 17	588.25	JAN 06	588.13	MAR 30	586.97	MAY 06	587.22	JUL 28	586.97	SEP 07	587.07

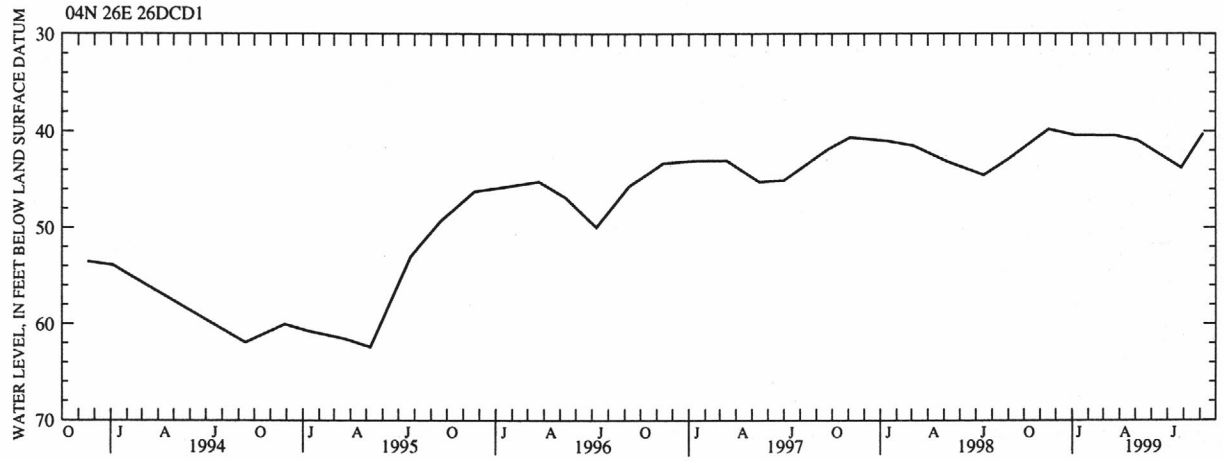
WELL NAME 04N 26E 26DCD1 SITE NUMBER 433819113191601

FORMERLY SITE NUMBER 433825113192301. DRILLED UNUSED WATER-TABLE WELL IN SAND AND GRAVEL OF TERNARY AGE, DIAM 8 IN, DEPTH 143 FT, CASED TO 143 FT. LATITUDE 43°38'19", LONGITUDE 113°19'16". LSD 5,332.25 FT ABOVE SEA LEVEL. MAY 22, 1974, WELL HAD FILLED IN TO A DEPTH OF 136.5 FT. RECORDER INSTALLED SEP 17, 1985 TO OCT 09, 1987. MP NO. 1 EDGE OF CASING WEST SIDE, 1.10 FT ABOVE LSD (SINCE AUG 24, 1949).

RECORDS AVAILABLE 1949 TO CURRENT YEAR.
HIGHEST WATER LEVEL 35.52 FEET BELOW LAND SURFACE DATUM NOV 28, 1984.
LOWEST WATER LEVEL 68.69 FEET BELOW LAND SURFACE DATUM JUL 24, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 17	39.82	JAN 06	40.39	MAR 26	40.49	MAY 06	40.99	JUL 28	43.83	SEP 07	40.28



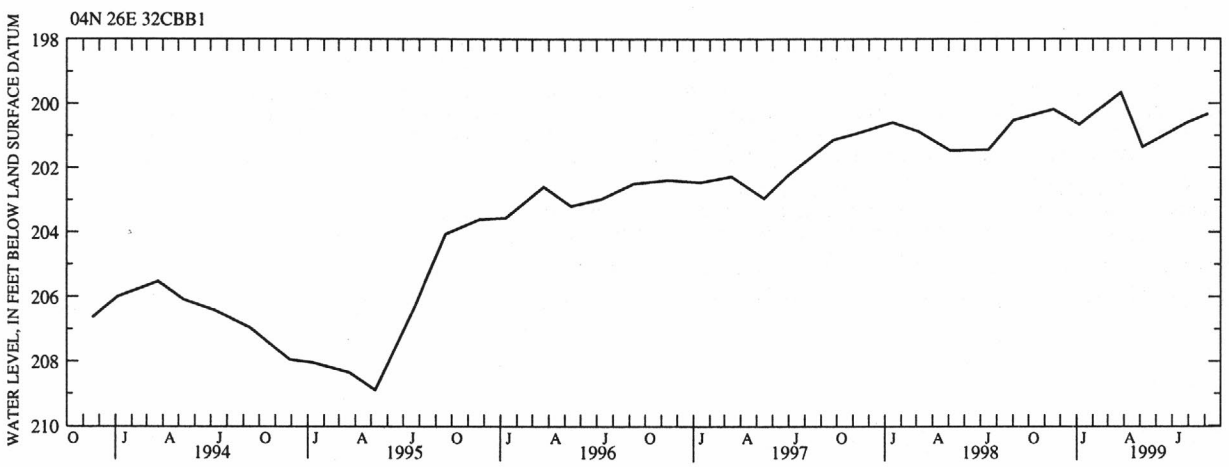
WELL NAME 04N 26E 32CBB1 SITE NUMBER 433748113234001

FORMERLY SITE NUMBER 433750113234501. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 253 FT, CASED TO 205.5 FT. LATITUDE 43°37'48", LONGITUDE 113°23'40". LSD 5,371.22 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUL 21, 1977 TO JUL 13, 1988. MP NO. 1 EDGE OF CASING NORTHEAST SIDE, 1.50 FT ABOVE LSD (SINCE APR 30, 1965).

RECORDS AVAILABLE 1958, 1960 TO CURRENT YEAR.
HIGHEST WATER LEVEL 194.80 FEET BELOW LAND SURFACE DATUM OCT 25, 1983.
LOWEST WATER LEVEL 209.99 FEET BELOW LAND SURFACE DATUM MAY 13, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 17	200.18	JAN 06	200.65	MAR 26	199.66	MAY 06	201.35	JUL 28	200.61	SEP 07	200.33



WELL NAME 04N 29E 09DCD1 SITE NUMBER 434055112595901

FORMERLY SITE NUMBER 434056113000101. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 463 FT, 6-IN CASING TO 440 FT, 5-IN CASING 430-463 FT, PERFORATED 410-430 FT. LATITUDE 43°40'55", LONGITUDE 112°59'59". LSD 4,884.20 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 16, 1952 TO NOV 16, 1954. MP NO. 5 EDGE OF 1-IN COUPLING, 2.90 FT ABOVE LSD (SINCE AUG 29, 1990).

RECORDS AVAILABLE 1952 TO CURRENT YEAR.
HIGHEST WATER LEVEL 382.76 FEET BELOW LAND SURFACE DATUM FEB 10, 1972.
LOWEST WATER LEVEL 406.11 FEET BELOW LAND SURFACE DATUM JUL 26, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 19	398.09	JAN 05	397.34	APR 14	397.18	JUL 15	395.41

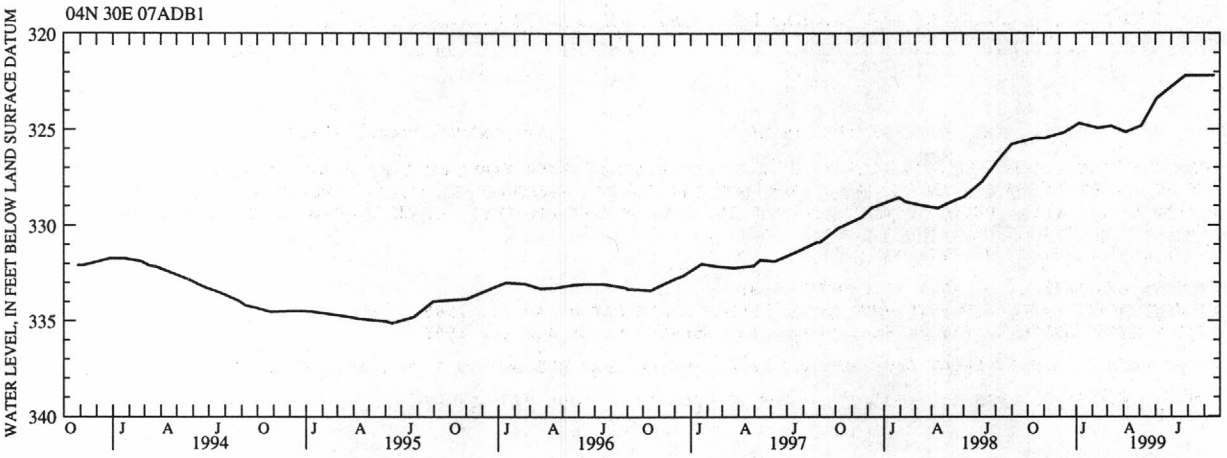
WELL NAME 04N 30E 07ADB1 SITE NUMBER 434126112550701

FORMERLY SITE NUMBER 434128112551201. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12 TO 10 IN, DEPTH 692 FT, 12-IN CASING TO 388 FT, 10-IN CASING 335-587 FT, CONCRETE SEAL 385-387 FT. LATITUDE 43°41'26", LONGITUDE 112°55'07". LSD 4,819.00 FT ABOVE SEA LEVEL. WELL CAVED TO A DEPTH OF 563 FT. RECORDER INSTALLED MAR 17, 1951 TO JUL 23, 1956. RECORDER INSTALLED JUL 10, 1969 TO APR 23, 1990. MP NO. 7 EDGE OF 1 1/2-IN COUPLING, 2.05 FT ABOVE LSD (SINCE MAY 10, 1990).

RECORDS AVAILABLE 1950 TO CURRENT YEAR.
HIGHEST WATER LEVEL 308.24 FEET BELOW LAND SURFACE DATUM JAN 11, 1972.
LOWEST WATER LEVEL 335.13 FEET BELOW LAND SURFACE DATUM JUN 14, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 14	325.47	DEC 09	325.16	FEB 11	324.92	APR 05	325.15	JUN 03	323.38	SEP 21	322.20
NOV 04	325.44	JAN 07	324.68	MAR 09	324.83	MAY 05	324.81	JUL 28	322.18		



WELL NAME 04N 30E 22BDD1 SITE NUMBER 433937112515401

FORMERLY SITE NUMBER 433938112520001. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 498 FT, 6-IN CASING TO 405.9 FT, 5-IN CASING 365.2-495.8 FT, PERFORATED 437.8-444.8 FT. LATITUDE 43°39'37", LONGITUDE 112°51'54". LSD 4,833.44 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUN 06, 1952 TO SEP 30, 1954. MP NO. 5 EDGE OF 1-IN COUPLING, 2.53 FT ABOVE LSD (SINCE SEP 09, 1989).

RECORDS AVAILABLE 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 342.25 FEET BELOW LAND SURFACE DATUM APR 24, 1972.
LOWEST WATER LEVEL 359.93 FEET BELOW LAND SURFACE DATUM SEP 11, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 14	354.17	JAN 12	353.45	APR 05	352.57	JUL 19	352.12

WELL NAME 04N 31E 16ADC1 SITE NUMBER 434031112453701

FORMERLY SITE NUMBER 434031112452701, WELL NAME 04N 31E 16ADD1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 475 FT, 6-IN CASING TO 403.7 FT, 5-IN CASING 395-487 FT, PERFORATED 452-487.1 FT. LATITUDE 43°40'31", LONGITUDE 112°45'35". LSD 4,898.55 FT ABOVE SEA LEVEL. SEP 12, 1952, WELL WAS DEEPENED AND RECASED, DEPTH 620 FT, 4-IN CASING TO 532 FT. RECORDER INSTALLED MAR 17, 1953 TO APR 07, 1953. MP NO. 3 EDGE OF 1-IN COUPLING, 2.07 FT ABOVE LSD (SINCE SEP 05, 1990).

RECORDS AVAILABLE 1950 TO CURRENT YEAR.
HIGHEST WATER LEVEL 406.61 FEET BELOW LAND SURFACE DATUM FEB 27, 1973.
LOWEST WATER LEVEL 417.79 FEET BELOW LAND SURFACE DATUM AUG 24, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 08	414.33	JAN 05	412.95	APR 06	412.48	JUL 20	413.16

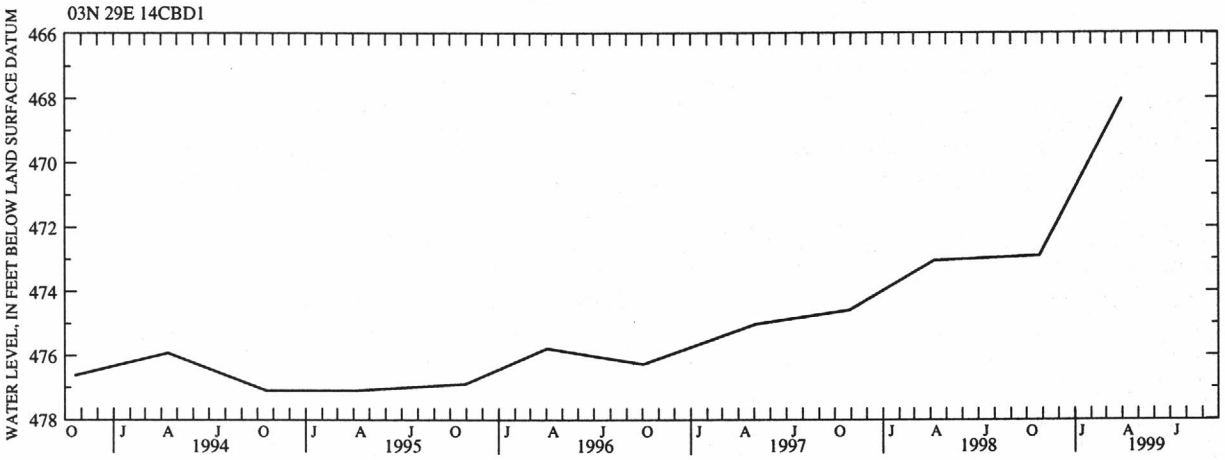
WELL NAME 03N 29E 14CBD1 SITE NUMBER 433505112581901

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 702 FT, CASED TO 281 FT. LATITUDE 43°35'05", LONGITUDE 112°58'19". LSD 4,930.50 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 21, 1986 TO DEC 20, 1988. MP NO. 2 EDGE OF 1-IN COUPLING, 2.58 FT ABOVE LSD (SINCE AUG 23, 1990).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 465.81 FEET BELOW LAND SURFACE DATUM JUL 15, 1986.
LOWEST WATER LEVEL 477.10 FEET BELOW LAND SURFACE DATUM NOV 18, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 26 472.90 APR 01 468.02



WELL NAME 03N 29E 19CBB1 SITE NUMBER 433422113031701

FORMERLY SITE NUMBER 433423113031901. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 657 FT, CASED TO 657 FT, PERFORATED 619-633 FT, 644-657 FT. LATITUDE 43°34'23", LONGITUDE 113°03'17". LSD 5,049.20 FT ABOVE SEA LEVEL. RECORDER INSTALLED AUG 18, 1955 TO MAR 13, 1956. RECORDER INSTALLED JAN 31, 1961 TO JAN 02, 1962. MP NO. 3 EDGE OF 1-IN COUPLING, 1.92
FT ABOVE LSD (SINCE JUL 27, 1990).

RECORDS AVAILABLE 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 599.75 FEET BELOW LAND SURFACE DATUM JAN 22, 1985.
LOWEST WATER LEVEL 613.56 FEET BELOW LAND SURFACE DATUM JUN 13, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 01 608.92 JAN 12 609.17 APR 07 608.42 JUL 07 608.64

WELL NAME 03N 30E 12CDD1 SITE NUMBER 433543112493801

FORMERLY SITE NUMBER 433542112494101. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 500 FT, CASED TO 500 FT, PERFORATED 475-497 FT. LATITUDE 43°35'43", LONGITUDE 112°49'38". LSD 4,937.57 FT ABOVE SEA LEVEL. APR 29, 1969, SURFACE WATER ENTERED WELL AT LSD AND PLUGGED WELL TO AQUIFER. JAN 22, 1973, WELL HAD FILLED IN TO A DEPTH OF 452.8 FT. JUL 31, 1975, WELL WAS CLEANED AND SURGED TO A DEPTH OF 500 FT. DEC 01, 1975, WELL HAD FILLED IN TO A DEPTH OF 494 FT. RECORDER INSTALLED OCT 24, 1951 TO NOV 29, 1951. MP NO. 4 EDGE OF 1-IN COUPLING, 1.60 FT ABOVE LSD (SINCE SEP 08, 1990).

RECORDS AVAILABLE 1950 TO CURRENT YEAR.
HIGHEST WATER LEVEL 460.27 FEET BELOW LAND SURFACE DATUM MAY 01, 1987.
LOWEST WATER LEVEL 471.60 FEET BELOW LAND SURFACE DATUM OCT 25, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 07 467.87 JAN 11 467.35 APR 07 466.70 JUL 16 466.24

WELL NAME 03N 30E 31AAD1 SITE NUMBER 433253112545901

FORMERLY SITE NUMBER 433253112550301. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 676 FT, 8-IN CASING TO 406 FT, 6-IN CASING 399-676 FT, PERFORATED 471-481 FT, 512-553 FT. LATITUDE 43°32'53", LONGITUDE 112°54'59". LSD 4,915.11 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 17, 1952 TO AUG 04, 1955. RECORDER INSTALLED JUN 10, 1960 TO OCT 10, 1961. MP NO. 3 EDGE OF 1-IN COUPLING, 1.96 FT ABOVE LSD (SINCE SEP 07, 1990).

RECORDS AVAILABLE 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 453.14 FEET BELOW LAND SURFACE DATUM APR 27, 1953.
LOWEST WATER LEVEL 464.32 FEET BELOW LAND SURFACE DATUM OCT 17, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 19 461.35 JAN 11 460.68 APR 20 459.12 JUL 15 459.37

WELL NAME 03N 32E 29DDC1 SITE NUMBER 433320112432301

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 704 FT, 6-IN CASING TO 434 FT, 5-IN CASING 427-704 FT, PERFORATED 675-696 FT. LATITUDE 43°33'20", LONGITUDE 112°43'22". LSD 5,125.22 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 14, 1950 TO OCT 04, 1954. RECORDER INSTALLED MAY 24, 1961 TO JAN 04, 1962. MP NO. 4 EDGE OF 1-IN COUPLING, 2.13 FT ABOVE LSD (SINCE JUL 28, 1990).

RECORDS AVAILABLE 1950 TO CURRENT YEAR.
HIGHEST WATER LEVEL 651.10 FEET BELOW LAND SURFACE DATUM JAN 07, 1950.
LOWEST WATER LEVEL 661.95 FEET BELOW LAND SURFACE DATUM JUL 13, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 09 658.95 JAN 07 657.81 APR 07 657.11 JUL 01 657.51

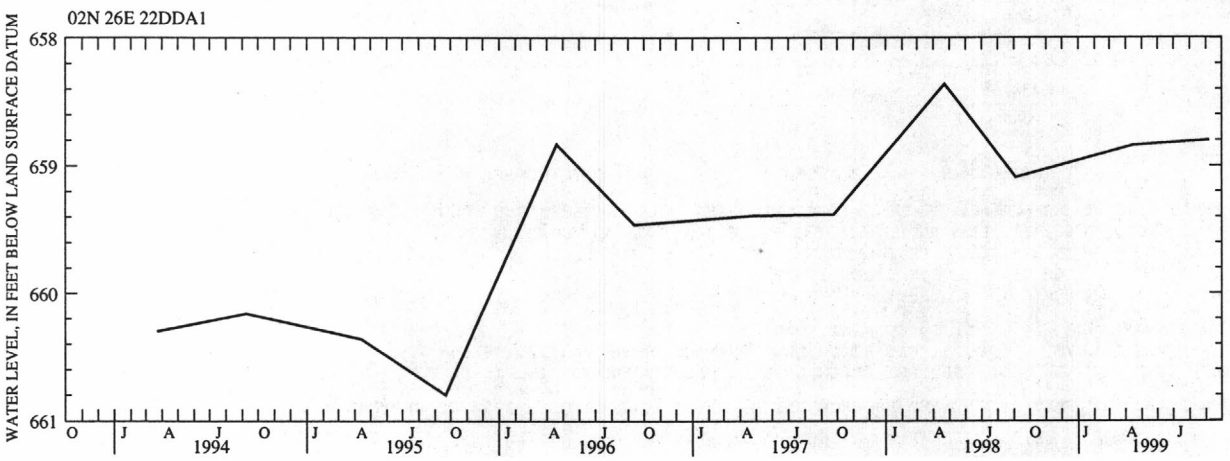
WELL NAME 02N 26E 22DDA1 SITE NUMBER 432854113201001

FORMERLY SITE NUMBER 432853113201201. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 719.4 FT, CASED TO 719.4 FT, PERFORATED 670-675 FT, 712-717 FT. ORIGINAL WELL WAS DRILLED TO A DEPTH OF 1,053 FT, CASED TO 728 FT. SEP 10, 1971, INSTALLED 6-IN INFLATABLE PACKER 719.4-721.8 FT WELDED TO A 2-IN PIPE, INSTALLED 1-IN MEASURING PIPE TO 719.4 FT, PERFORATED 698.4-719.4 FT. LATITUDE 4328'54'", LONGITUDE 113°20'10". LSD 5,361.81 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 1-IN PIPE COUPLING EAST SIDE, 2.09 FT ABOVE LSD (SINCE SEP 10, 1971).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.
HIGHEST WATER LEVEL 656.33 FEET BELOW LAND SURFACE DATUM SEP 10, 1986.
LOWEST WATER LEVEL 663.74 FEET BELOW LAND SURFACE DATUM NOV 15, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

APR 15 658.84 SEP 07 658.80



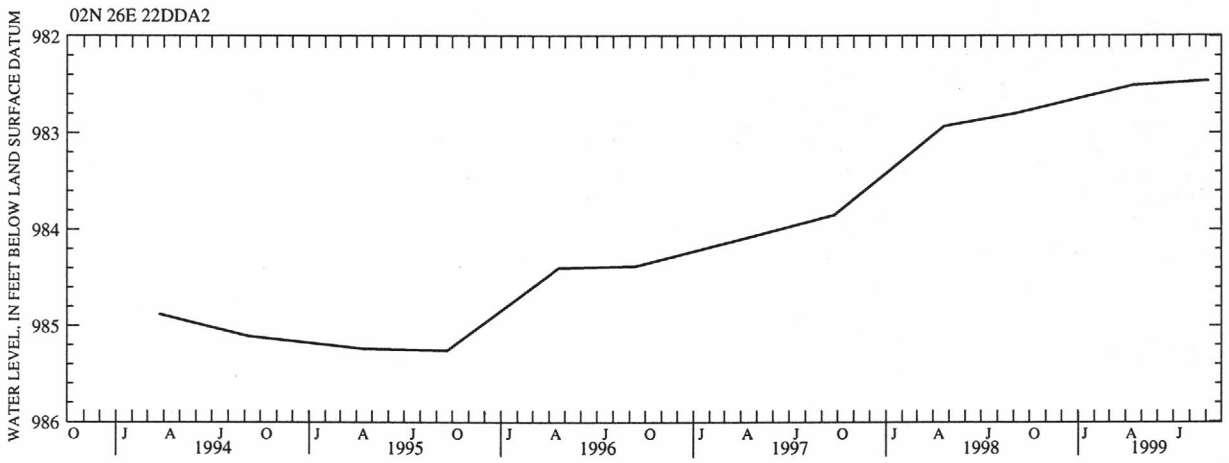
WELL NAME 02N 26E 22DDA2 SITE NUMBER 432854113201002

FORMERLY SITE NUMBER 432853113201202. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 1,053 FT, CASED TO 728 FT. SEP 10, 1971, INSTALLED 6-IN INFLATABLE PACKER 719.4-721.8 FT WELDED TO 2-IN PIPE, PERFORATED 1,030-1,051 FT. LATITUDE 43°28'54", LONGITUDE 113°20'10". LSD 5,361.81 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF 2-IN PIPE COUPLING, 2.12 FT ABOVE LSD (SINCE SEP 10, 1971).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 977.81 FEET BELOW LAND SURFACE DATUM APR 24, 1985.
LOWEST WATER LEVEL 985.26 FEET BELOW LAND SURFACE DATUM SEP 21, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

APR 15 982.51 SEP 07 982.46



WELL NAME 02N 27E 02DDC1 SITE NUMBER 433121113115801

FORMERLY SITE NUMBER 433122113120301. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 812 FT, CASED TO 812 FT, PERFORATED 782-812 FT. LATITUDE 43°31'21", LONGITUDE 113°11'57". LSD 5,195.44 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUL 18, 1951 TO OCT 21, 1953. RECORDER INSTALLED APR 06, 1966 TO SEP 14, 1966. RECORDER INSTALLED JUL 14, 1967 TO DEC 13, 1967. MP NO. 3 EDGE OF 1-IN COUPLING, 2.11 FT ABOVE LSD (SINCE JUL 10, 1990).

RECORDS AVAILABLE 1950-1960, 1964 TO CURRENT YEAR.
HIGHEST WATER LEVEL 750.70 FEET BELOW LAND SURFACE DATUM DEC 27, 1950.
LOWEST WATER LEVEL 769.53 FEET BELOW LAND SURFACE DATUM OCT 04, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 06 764.71 JAN 05 764.61 APR 19 764.60 JUL 07 763.99

WELL NAME 02N 28E 13ADD1 SITE NUMBER 433005113032801

FORMERLY SITE NUMBER 433006113033201, WELL NAME 02N 28E 13AD1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 646 FT, CASED TO 576 FT. LATITUDE 43°30'05", LONGITUDE 113°03'28". LSD 5,030.24 FT ABOVE SEA LEVEL. MP NO. 6 EDGE OF 1-IN COUPLING, 1.88 FT ABOVE LSD (SINCE JUN 28, 1993).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.
HIGHEST WATER LEVEL 580.03 FEET BELOW LAND SURFACE DATUM AUG 27, 1984.
LOWEST WATER LEVEL 606.02 FEET BELOW LAND SURFACE DATUM JUN 15, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 13	596.96	JUN 21	599.12	JUL 16	599.20	AUG 05	599.04	SEP 20	598.87
JAN 20	597.80	JUL 02	599.01	20	599.30	12	599.15	30	598.67
APR 17	599.12	07	599.29	30	599.15	16	599.19		

BUTTE COUNTY--continued

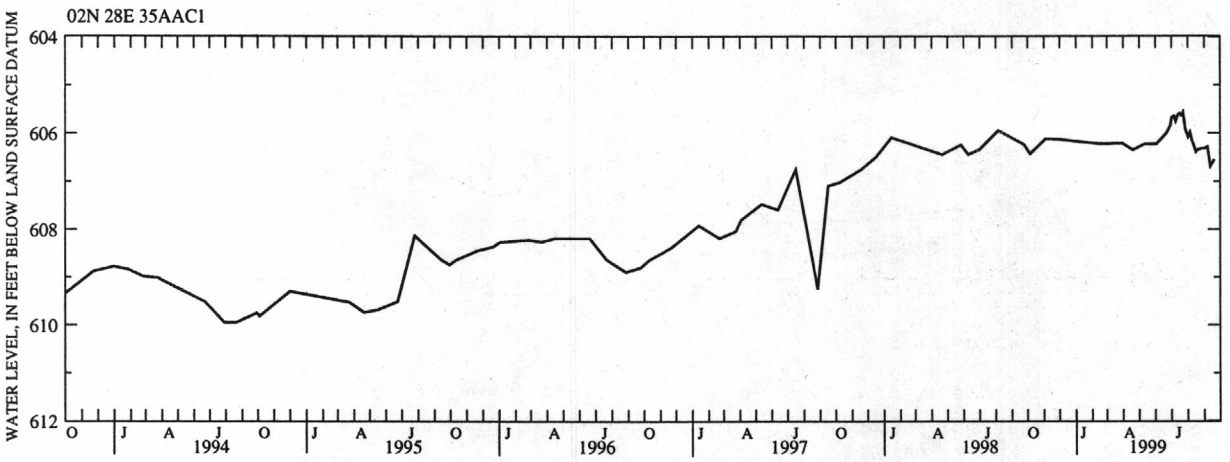
WELL NAME 02N 28E 35AAC1 SITE NUMBER 432740113044501

FORMERLY SITE NUMBER 432733113043901, WELL NAME 02N 28E 35ADD1, 02N 28E 35ADA1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 654.1 FT, 8-IN CASING TO 241 FT, 6-IN CASING 235-652 FT, PERFORATED 618-648 FT, LEAD SEAL. LATITUDE 43°27'40", LONGITUDE 113°04'45". LSD 5,030.32 FT ABOVE SEA LEVEL. RECORDER INSTALLED NOV 26, 1952 TO AUG 02, 1956. RECORDER INSTALLED JUN 29, 1965 TO MAY 15, 1968. RECORDER INSTALLED JUN 02, 1971 TO JUL 30, 1987. MP NO. 7 EDGE OF 1-IN COUPLING, 2.55 FT ABOVE LSD (SINCE JUL 30, 1987).

RECORDS AVAILABLE 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 594.22 FEET BELOW LAND SURFACE DATUM JUL 08, 1984.
LOWEST WATER LEVEL 609.95 FEET BELOW LAND SURFACE DATUM JUL 29, AUG 22, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 06	606.43	APR 19	606.35	JUL 06	605.65	JUL 27	605.91	AUG 16	606.39	SEP 20	606.55
NOV 04	606.12	MAY 12	606.23	09	605.75	30	605.99	19	606.35		
DEC 01	606.13	JUN 03	606.23	13	605.62	AUG 02	606.08	26	606.33		
JAN 06	606.18	22	606.00	16	605.59	05	605.99	SEP 02	606.32		
FEB 16	606.23	29	605.85	20	605.63	09	606.16	07	606.29		
MAR 30	606.21	JUL 02	605.67	23	605.57	12	606.25	13	606.69		



WELL NAME 01N 29E 30BBD1 SITE NUMBER 432336113064201

FORMERLY SITE NUMBER 432339113064501. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 704 FT, CASED TO 704 FT, PERFORATED 673-704 FT. LATITUDE 43°23'36", LONGITUDE 113°06'42". LSD 5,066.89 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUL 30, 1965 TO JUL 22, 1966. MP NO. 3 EDGE OF 1-IN COUPLING, 2.34 FT ABOVE LSD (SINCE SEP 12, 1989).

RECORDS AVAILABLE 1950 TO CURRENT YEAR.
HIGHEST WATER LEVEL 645.57 FEET BELOW LAND SURFACE DATUM NOV 27, 1984.
LOWEST WATER LEVEL 654.86 FEET BELOW LAND SURFACE DATUM APR 20, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 07	652.16	JAN 07	651.91	APR 07	652.04	JUL 16	651.88

BUTTE COUNTY--continued

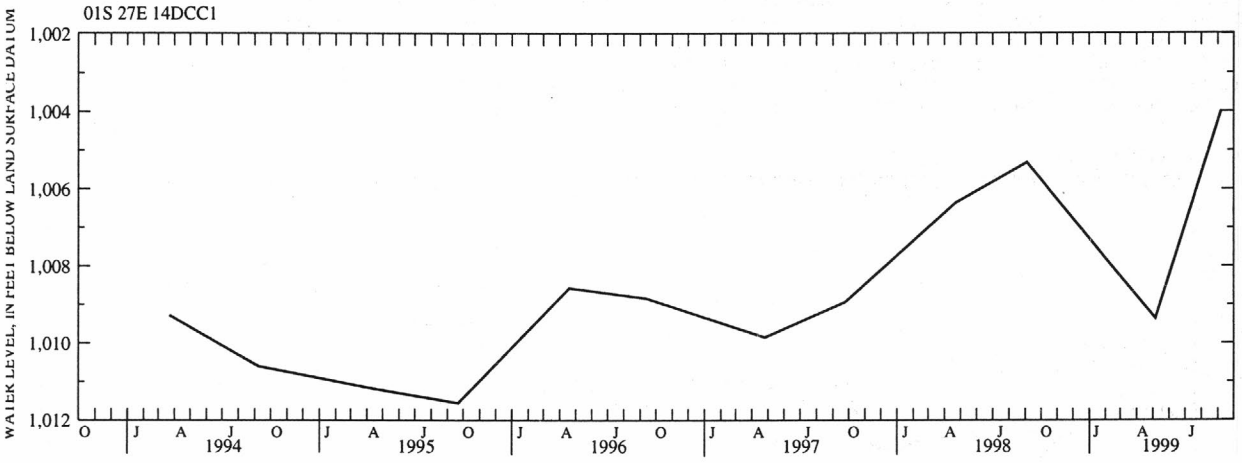
WELL NAME 01S 27E 14DCC1 SITE NUMBER 431946113161401

FORMERLY SITE NUMBER 431948113161801. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, DEPTH DEPTH 1,041 FT, CASED TO 1,031 FT, PERFORATED 1,011-1,031 FT. LATITUDE 43°19'46", LONGITUDE 113°16'14". LSD 5,158.86 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUL 23, 1971 TO MAY 04, 1972. MP NO. 3 EDGE OF 2-IN NIPPLE NORTHEAST SIDE, 1.59 FT ABOVE LSD (SINCE MAY 04, 1972).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 989.66 FEET BELOW LAND SURFACE DATUM MAR 06, 1987.
LOWEST WATER LEVEL 1011.56 FEET BELOW LAND SURFACE DATUM SEP 21, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAY 06 1009.37 SEP 07 1003.99



CAMAS COUNTY

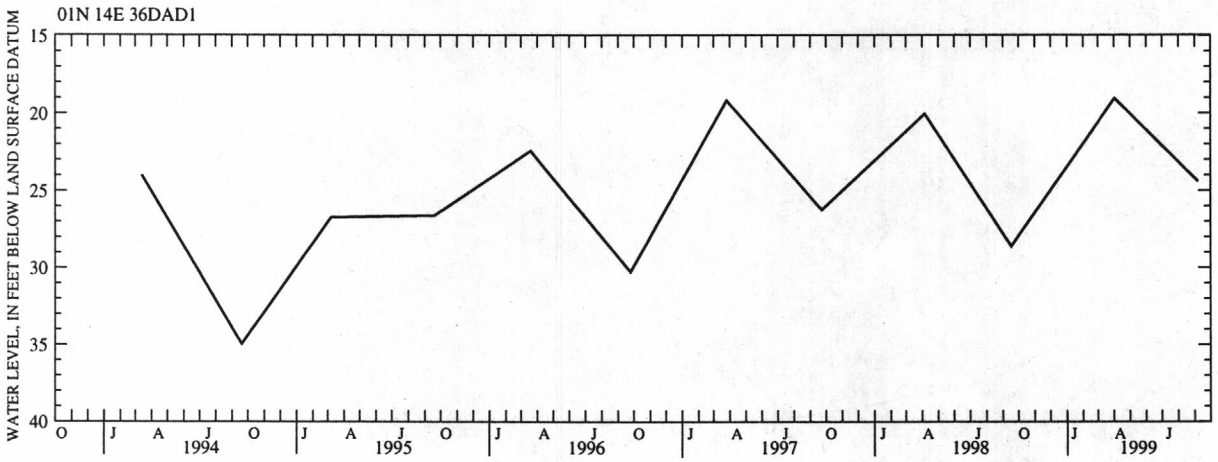
WELL NAME 01N 14E 36DAD1 SITE NUMBER 432228114421601

DRILLED UNUSED WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 IN, REPORTED DEPTH 188 FT, CASING DEPTH NOT AVAILABLE. LATITUDE 43°22'28", LONGITUDE 114°42'16". LSD ABOUT 5,106 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 0.70 FT ABOVE LSD (SINCE MAR 24, 1977).

RECORDS AVAILABLE 1977 TO CURRENT YEAR.
HIGHEST WATER LEVEL 14.24 FEET BELOW LAND SURFACE DATUM MAY 16, 1986.
LOWEST WATER LEVEL 38.14 FEET BELOW LAND SURFACE DATUM SEP 05, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

APR 02 19.05 SEP 07 24.43



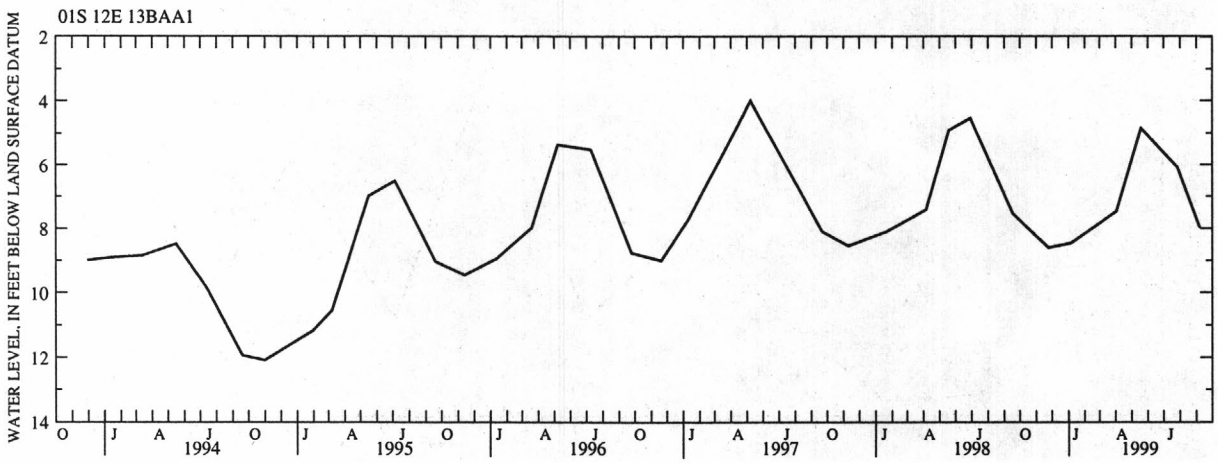
WELL NAME 01S 12E 13BAA1 SITE NUMBER 432033114584701

DRILLED UNUSED ARTESIAN WELL IN SAND OF QUATERNARY AGE, DIAM 3 IN, DEPTH 435 FT, CASED TO 135 FT. LATITUDE 43°20'33", LONGITUDE 114°58'47". LSD 5,090.70 FT ABOVE SEA LEVEL. MAR 20, 1972, WELL HAD FILLED IN TO A DEPTH OF 218.2 FT. MP NO. 1 EDGE OF CASING EAST SIDE, 2.30 FT ABOVE LSD (SINCE SEP 12, 1957).

RECORDS AVAILABLE 1944 TO CURRENT YEAR.
HIGHEST WATER LEVEL 1.60 FEET BELOW LAND SURFACE DATUM APR 26, 1965.
LOWEST WATER LEVEL 13.54 FEET BELOW LAND SURFACE DATUM OCT 02, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 24 8.60 JAN 05 8.47 APR 02 7.47 MAY 19 4.85 JUL 27 6.09 SEP 07 7.97



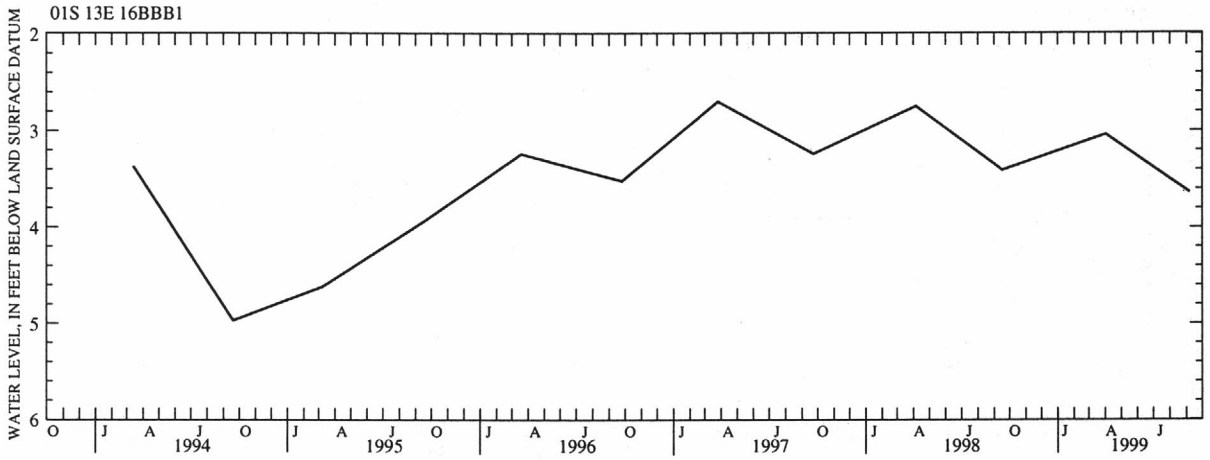
WELL NAME 01S 13E 16BBB1 SITE NUMBER 432032114554201

DRIVEN OBSERVATION WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 13.0 FT, CASED TO 10.5 FT, SANDPOINT 10.5-13 FT. LATITUDE 43°20'32", LONGITUDE 114°55'42". LSD ABOUT 5,085 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 2.30 FT ABOVE LSD (SINCE MAR 16, 1978).

RECORDS AVAILABLE 1978 TO CURRENT YEAR.
HIGHEST WATER LEVEL 2.70 FEET BELOW LAND SURFACE DATUM MAR 26, 1997.
LOWEST WATER LEVEL 6.50 FEET BELOW LAND SURFACE DATUM OCT 23, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

APR 02 3.04 SEP 07 3.64



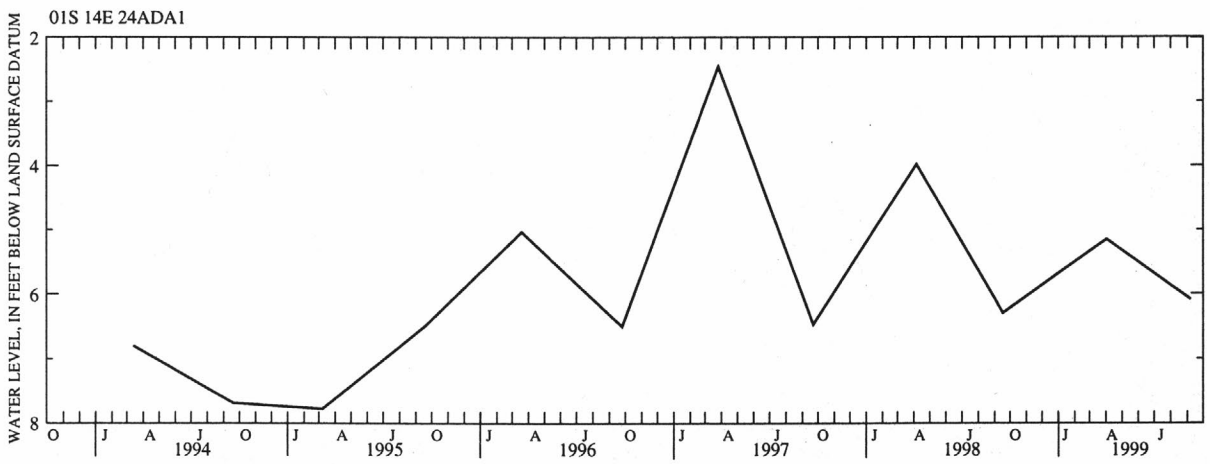
WELL NAME 01S 14E 24ADA1 SITE NUMBER 431924114435501

DRIVEN OBSERVATION WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 12.2 FT, CASED TO 9 FT, SANDPOINT 9-12 FT. LATITUDE 43°19'24", LONGITUDE 114°43'55". LSD ABOUT 5,030 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 3.10 FT ABOVE LSD (SINCE MAR 15, 1978).

RECORDS AVAILABLE 1978 TO CURRENT YEAR.
HIGHEST WATER LEVEL 1.30 FEET BELOW LAND SURFACE DATUM APR 30, 1982.
LOWEST WATER LEVEL 9.02 FEET BELOW LAND SURFACE DATUM MAR 16, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

APR 02 5.15 SEP 07 6.09



WELL NAME 01S 14E 28DDC1 SITE NUMBER 431756114473801

DRILLED IRRIGATION ARTESIAN WELL IN BRUNEAU FORMATION, DIAM 20 IN, DEPTH 212.1 FT, CASED TO 20 FT. LATITUDE 43°17'56", LONGITUDE 114°47'38". LSD ABOUT 5,040 FT ABOVE SEA LEVEL. RECORDER INSTALLED DEC 10, 1976 TO APR 17, 1978. MP NO. 2 EDGE OF CASING EAST SIDE, 1.20 FT ABOVE LSD (SINCE DEC 10, 1976).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 20.10 FEET BELOW LAND SURFACE DATUM MAY 09, 1983.
LOWEST WATER LEVEL 72.20 FEET BELOW LAND SURFACE DATUM SEP 14, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

APR 02 24.24 SEP 07 38.52

CARIBOU COUNTY

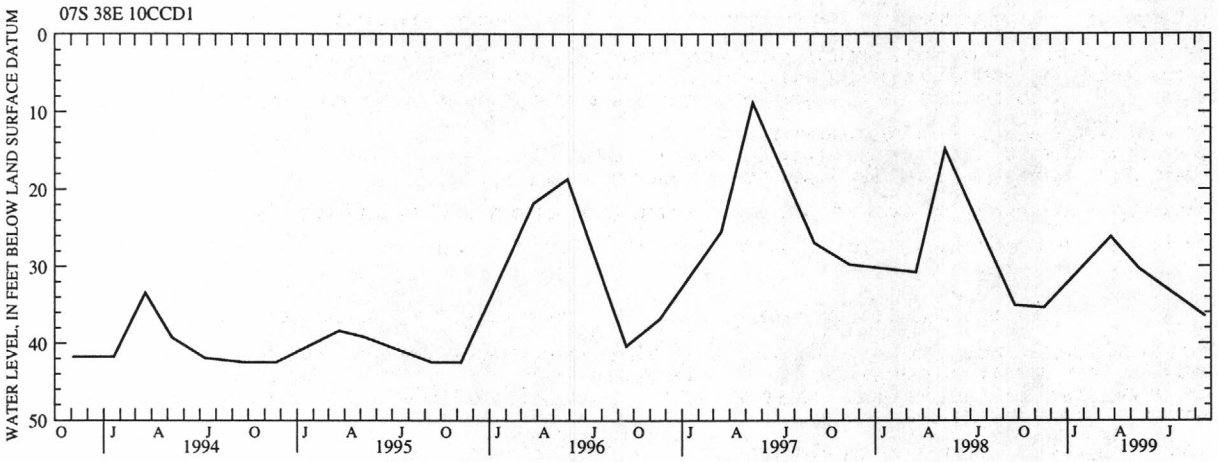
WELL NAME 07S 39E 10CCD1 SITE NUMBER 424926111532601

DRILLED UNUSED WATER-TABLE WELL IN BASALT OF QUATERNARY AGE, DIAM 15 IN, DEPTH 68.2 FT, CASED TO 6 FT. LATITUDE 42°49'26", LONGITUDE 111°53'26". LSD 5,353.71 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 20, 1968 TO SEP 01, 1971. RECORDER INSTALLED JUL 12, 1977 TO JUL 15, 1992. MP NO. 1 EDGE OF CASING NORTHEAST SIDE, 1.20 FT ABOVE LSD (SINCE OCT 03, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL 8.55 FEET BELOW LAND SURFACE DATUM MAY 14, 1986.
LOWEST WATER LEVEL 43.20 FEET BELOW LAND SURFACE DATUM SEP 15, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 18 35.36 MAR 25 26.17 MAY 17 30.27 SEP 20 36.48



WELL NAME 08S 42E 17CAB1 SITE NUMBER 424340111344101

DRILLED UNUSED WATER-TABLE WELL IN FRACTURED BASALT OF QUATERNARY AGE, DIAM 6 IN, DEPTH 119.4 FT, CASED TO 16 FT. LATITUDE 42°43'40", LONGITUDE 111°34'41". LSD 6,095.6 FT ABOVE SEA LEVEL. RECORDER INSTALLED NOV 06, 1967 TO MAY 31, 1978. MP NO. 2 EDGE OF CASING, 0.40 FT ABOVE LSD (SINCE NOV 05, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 91.05 FEET BELOW LAND SURFACE DATUM MAY 02, 1985.
LOWEST WATER LEVEL 108.10 FEET BELOW LAND SURFACE DATUM JUL 11, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 25 99.11 SEP 20 99.65

WELL NAME 09S 40E 13ACB1 SITE NUMBER 423843111433901

DRILLED UNUSED WATER-TABLE WELL IN FRACTURED BASALT OF QUATERNARY AGE, DIAM 8 IN, REPORTED DEPTH 303 FT, CASING CASING INFORMATION NOT AVAILABLE. LATITUDE 42°38'43", LONGITUDE 111°43'39". LSD 5,710.89 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTHWEST SIDE, 0.40 FT ABOVE LSD (SINCE AUG 29, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 259.93 FEET BELOW LAND SURFACE DATUM JUL 01, 1986.
LOWEST WATER LEVEL 272.02 FEET BELOW LAND SURFACE DATUM MAR 19, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 18 264.51 MAR 25 269.52 MAY 17 269.26 SEP 20 263.46

WELL NAME 09S 40E 20CBC1 SITE NUMBER 423727111490101

DRILLED IRRIGATION WATER-TABLE WELL IN INTERBEDDED BASALT OF QUATERNARY AGE, DIAM 20 TO 16 IN, DEPTH 525 FT, 20-IN CASING TO 18 FT, 16-IN CASING 0-525 FT, PERFORATED 140-150 FT, 415-521 FT. LATITUDE 42°37'27", LONGITUDE 111°49'01". LSD ABOUT 5,568 FT ABOVE SEA LEVEL. MP NO. 2 TOP EDGE OF 1 1/4-IN ACCESS PIPE, 3.20 FT ABOVE LSD (SINCE MAY 15, 1997).

RECORDS AVAILABLE 1983, 1993 TO CURRENT YEAR.
HIGHEST WATER LEVEL 135.41 FEET BELOW LAND SURFACE DATUM OCT 28, 1983.
LOWEST WATER LEVEL 144.83 FEET BELOW LAND SURFACE DATUM MAY 11, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 18 136.82 MAR 25 139.50 MAY 17 140.57 SEP 20 137.19

WELL NAME 09S 40E 27BCD1 SITE NUMBER 423652111463001

DRILLED IRRIGATION WATER-TABLE WELL IN BASALT OF QUATNARY AGE, DIAM 20 IN, DEPTH 370 FT, CASED 20 FT. LATITUDE 42°36'52", LONGITUDE 111°46'30". LSD ABOUT 5,602 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE INSIDE PUMPBASE NORTH SIDE, 1.15 FT ABOVE LSD (SINCE FEB 06, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL 176.30 FEET BELOW LAND SURFACE DATUM SEP 23, 1986.
LOWEST WATER LEVEL 190.15 FEET BELOW LAND SURFACE DATUM MAY 10, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 18 181.89 MAR 25 184.73 MAY 17 185.75 SEP 20 182.07

WELL NAME 10S 40E 05BDD1 SITE NUMBER 423504111482801

DRILLED IRRIGATION WATER-TABLE WELL IN INTERBEDDED BASALT OF QUATERNARY AGE, DIAM 20 TO 16 IN, DEPTH 208 FT, 16-IN CASING TO 208 FT, PERFORATED 90-184 FT. LATITUDE 42°35'04", LONGITUDE 111°48'28". LSD ABOUT 5,500 FT ABOVE SEA LEVEL. MP NO. 2 BOTTOM EDGE OF 1 1/2-IN ACCESS PIPE EAST SIDE, 1.05 FT ABOVE LSD (SINCE MAY 15, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL 79.01 FEET BELOW LAND SURFACE DATUM SEP 23, 1986.
LOWEST WATER LEVEL 95.65 FEET BELOW LAND SURFACE DATUM JUL 09, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 18 83.51 MAR 25 86.10 MAY 17 87.41 SEP 20 84.16

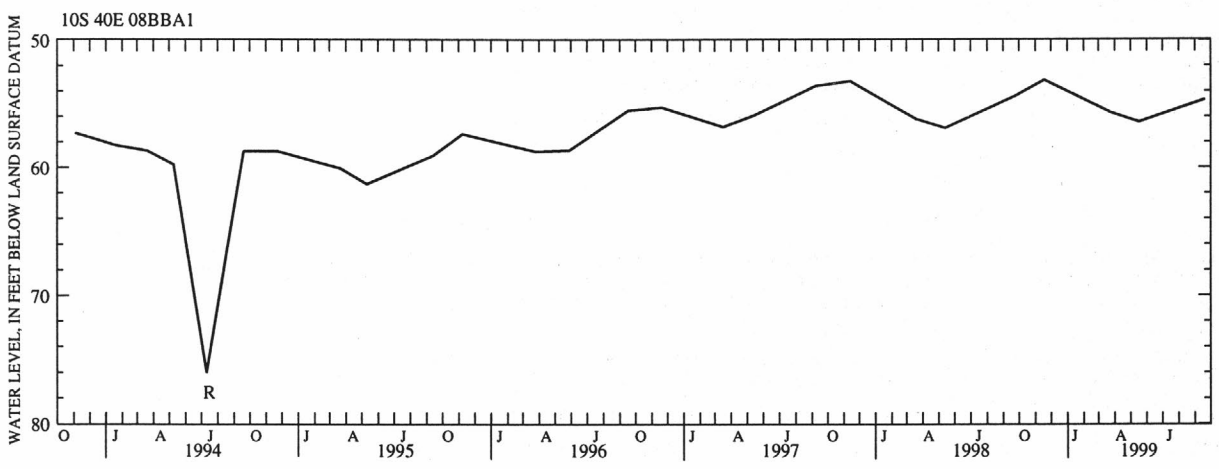
WELL NAME 10S 40E 08BBA1 SITE NUMBER 423433111484701

DRILLED IRRIGATION WATER-TABLE WELL IN INTERBEDDED BASALT OF QUATERNARY AGE, DIAM 16 TO 14 IN, DEPTH 300 FT, 16-IN CASING TO 205 FT, 14-IN CASING 190-280 FT, PERFORATED 70-83 FT, 270-280 FT. LATITUDE 42°34'33", LONGITUDE 111°48'47". LSD 5,477.15 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE INSIDE PUMPBASE SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE JUL 16, 1980).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 46.15 FEET BELOW LAND SURFACE DATUM SEP 27, 1972.
LOWEST WATER LEVEL 61.82 FEET BELOW LAND SURFACE DATUM MAY 10, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 18 53.15 MAR 25 55.72 MAY 17 56.44 SEP 20 54.68



CARIBOU COUNTY--continued

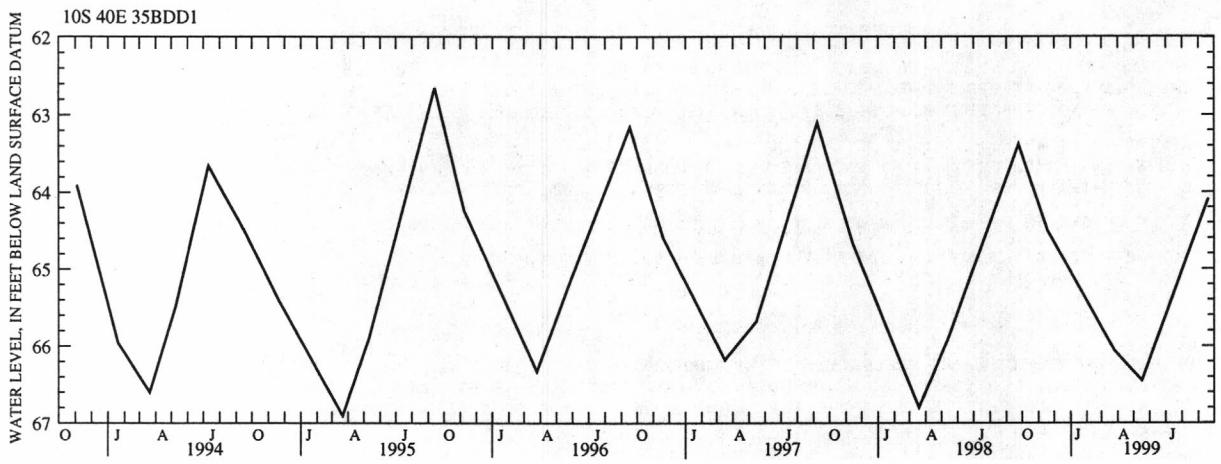
WELL NAME 10S 40E 35BDD1 SITE NUMBER 423045111450001

DRILLED IRRIGATION WATER-TABLE WELL IN FRACTURED BASALT OF QUATERNARY AGE, DIAM 18 IN, REPORTED DEPTH 90 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°30'42", LONGITUDE 111°44'59". LSD ABOUT 5,390 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE IN PUMPBASE WEST SIDE, 1.30 FT ABOVE LSD (SINCE AUG 16, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 61.93 FEET BELOW LAND SURFACE DATUM SEP 14, 1971.
LOWEST WATER LEVEL 67.70 FEET BELOW LAND SURFACE DATUM MAR 29, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 18 64.50 MAR 25 66.06 MAY 17 66.45 SEP 20 64.09



CASSIA COUNTY

WELL NAME 09S 25E 18DDA1 SITE NUMBER 423811113341201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 150 FT, CASED TO 77 FT, CONCRETE SEAL 70-77 FT, 150-318 FT. LATITUDE 42°38'11", LONGITUDE 113°34'12". LSD 4,206.29 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.20 FT ABOVE LSD (SINCE DEC 20, 1975).

RECORDS AVAILABLE 1975 TO CURRENT YEAR.
HIGHEST WATER LEVEL 13.30 FEET BELOW LAND SURFACE DATUM DEC 20, 1975.
LOWEST WATER LEVEL 42.60 FEET BELOW LAND SURFACE DATUM APR 11, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 22	31.10	DEC 17	33.77	FEB 23	36.59	APR 23	37.10	JUN 23	35.26	AUG 23	32.60
NOV 23	32.47	JAN 22	35.38	MAR 21	37.40	MAY 24	36.34	JUL 22	34.09	SEP 20	31.78

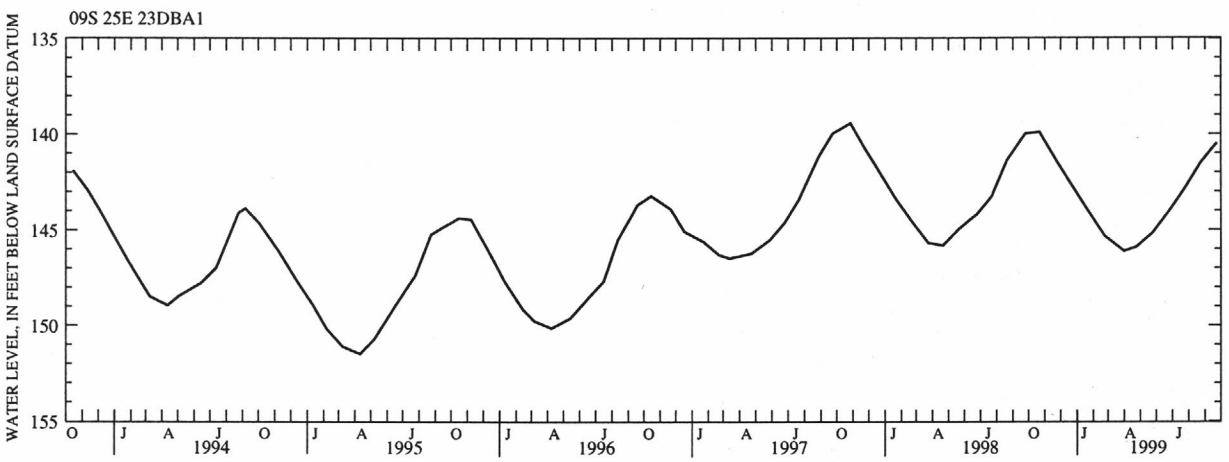
WELL NAME 09S 25E 23DBA1 SITE NUMBER 423732113295801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 174 FT, 8-IN TO 11 FT, 6-IN CASING 11-172 FT, 30 FT SLOTTED PERFORATIONS BELOW WATER LEVEL. LATITUDE 42°37'32", LONGITUDE 113°29'58". LSD 4,266.97 FT ABOVE SEA LEVEL. APR 20, 1982, WELL HAD FILLED IN TO A DEPTH OF 139.3 FT. SEP 19, 1983, WELL WAS DEEPENED TO A DEPTH OF 184.2 FT. RECORDER INSTALLED AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION JUN 20, 1951 TO OCT 22, 1985. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING, 1.00 FT ABOVE LSD (SINCE MAY 23, 1951).

RECORDS AVAILABLE 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 116.50 FEET BELOW LAND SURFACE DATUM SEP 23, 1951.
LOWEST WATER LEVEL 151.49 FEET BELOW LAND SURFACE DATUM APR 11, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 22	139.90	DEC 17	142.49	FEB 23	145.33	APR 23	145.90	JUN 23	144.09	AUG 23	141.54
NOV 24	141.47	JAN 22	144.04	MAR 31	146.11	MAY 25	145.15	JUL 22	142.97	SEP 23	140.49



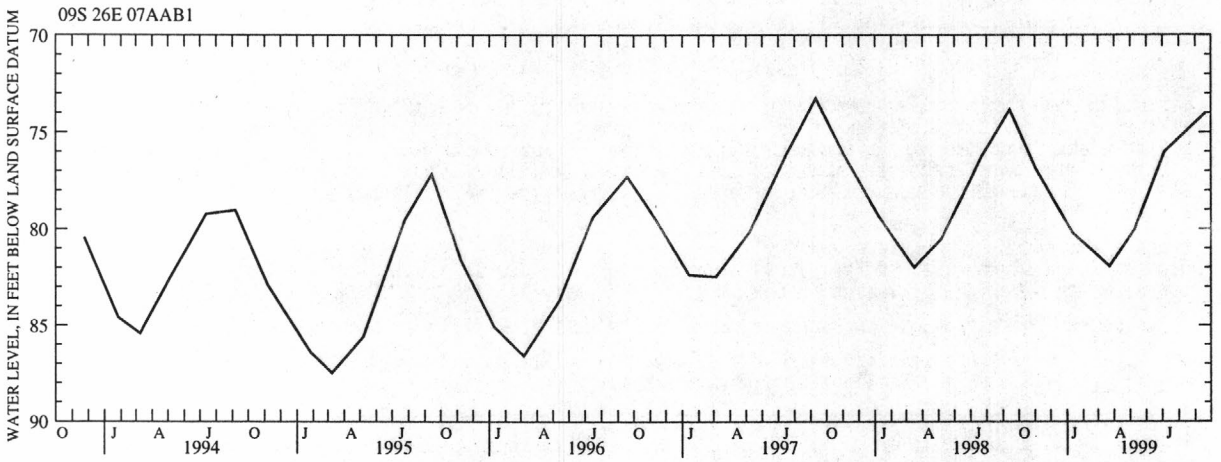
WELL NAME 09S 26E 07AAB1 SITE NUMBER 423943113272001

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, DEPTH 153 FT, 4-IN CASING TO 68 FT, 3/4-IN PIEZOMETER TUBE 0-152.5 FT, PERFORATED 145-150 FT. LATITUDE 42°39'43", LONGITUDE 113°27'20". LSD 4,199.95 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE, 1.80 FT ABOVE LSD (SINCE NOV 18, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 54.75 FEET BELOW LAND SURFACE DATUM AUG 25, 1972.
LOWEST WATER LEVEL 87.50 FEET BELOW LAND SURFACE DATUM MAR 09, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 03 76.90 JAN 12 80.21 MAR 23 81.95 MAY 10 80.03 JUL 05 76.00 SEP 21 74.00



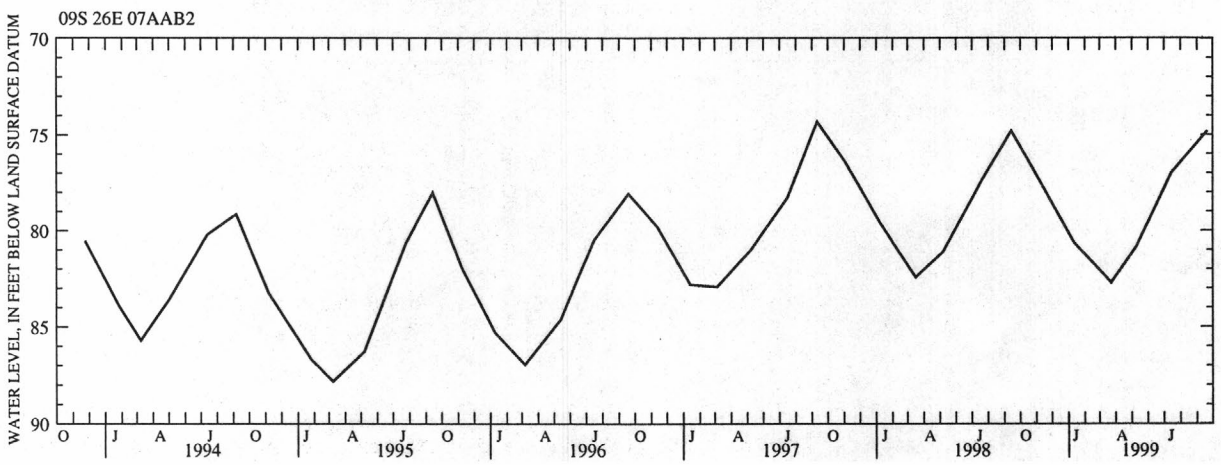
WELL NAME 09S 26E 07AAB2 SITE NUMBER 423943113272002

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 550 FT, 3/4-IN PIEZOMETER TUBE 0-227 FT, PERFORATED 219.5-224.5 FT, GRAVEL FILL 168-550 FT, CONCRETE SEAL 153-168 FT. LATITUDE 42°39'43", LONGITUDE 113°27'20". LSD 4,199.95 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE, 1.26 FT ABOVE LSD (SINCE NOV 18, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 55.42 FEET BELOW LAND SURFACE DATUM AUG 25, 1972.
LOWEST WATER LEVEL 87.83 FEET BELOW LAND SURFACE DATUM MAR 09, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 03 77.23 JAN 12 80.65 MAR 23 82.73 MAY 10 80.84 JUL 15 76.99 SEP 21 74.80



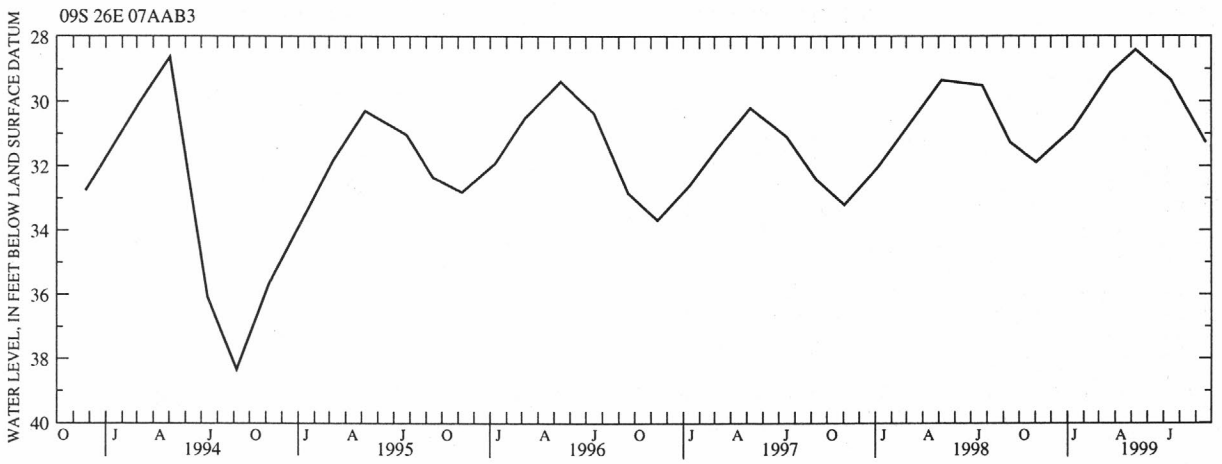
WELL NAME 09S 26E 07AAB3 SITE NUMBER 423943113272003

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 804.5 FT, 1-IN PIEZOMETER TUBE 0-785.2 FT, PERFORATED 777.5-782.5 FT, GRAVEL FILL 620-630 FT, CAVED IN 630-804.5 FT, CONCRETE SEAL 550-620 FT. LATITUDE 42°39'43", LONGITUDE 113°27'20". LSD 4,199.95 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 1-IN PIPE, 0.31 FT ABOVE LSD (SINCE NOV 18, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 6.09 FEET BELOW LAND SURFACE DATUM JUL 27, 1972.
LOWEST WATER LEVEL 38.34 FEET BELOW LAND SURFACE DATUM SEP 09, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 03	31.88	JAN 12	30.84	MAR 23	29.11	MAY 10	28.41	JUL 15	29.33	SEP 21	31.28



WELL NAME 09S 26E 10DDD1 SITE NUMBER 423855113233901

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 128 FT, 8-IN CASING TO 15 FT, 6-IN CASING 15-118 FT. LATITUDE 42°38'55", LONGITUDE 113°23'39". LSD 4,217.18 FT ABOVE SEA LEVEL. NOV 17, 1983, WELL WAS DEEPENED TO A DEPTH OF 131.4 FT. RECORDER INSTALLED AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION JUN 21, 1951 TO SEP 12, 1962. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING, 0.75 FT ABOVE LSD (SINCE JUN 04, 1951).

RECORDS AVAILABLE 1951-1981, 1983 TO CURRENT YEAR.
HIGHEST WATER LEVEL 67.30 FEET BELOW LAND SURFACE DATUM OCT 20, 1951.
LOWEST WATER LEVEL 101.64 FEET BELOW LAND SURFACE DATUM MAY 08, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 24	92.29	JAN 22	94.86	MAR 31	96.98	MAY 25	96.06	JUL 22	93.88	SEP 23	91.45

WELL NAME 09S 26E 13CCC1 SITE NUMBER 423803113221801

DRILLED STOCK WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 169.7 FT, 8-IN CASING TO 5.8 FT, 6-IN CASING 152-169.7 FT, WELL DEPTH ORIGINALLY 153 FT. LATITUDE 42°38'03", LONGITUDE 113°22'18". LSD 4,281.43 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE SOUTH SIE, 0.87 FT ABOVE LSD (SINCE JUL 17, 1968).

RECORDS AVAILABLE 1955-1969, 1980, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 135.31 FEET BELOW LAND SURFACE DATUM SEP 19, 1957.
LOWEST WATER LEVEL 165.64 FEET BELOW LAND SURFACE DATUM MAY 08, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 03	155.32	JAN 12	158.20	MAR 23	160.79	MAY 10	160.49	JUL 15	158.38	SEP 21	155.78

WELL NAME 10S 22E 20CDC1 SITE NUMBER 423206113542301

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 3 IN, DEPTH 561 FT, 6-IN CASING TO 285 FT, CONCRETE SEAL 279-285 FT, 3-IN BORE 285-561 FT. LATITUDE 42°32'06", LONGITUDE 113°54'23". LSD 4,149.52 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF 1-IN COUPLING SOUTH SIDE, 1.13 FT ABOVE LSD (SINCE SEP 16, 1983).

RECORDS AVAILABLE 1975 TO CURRENT YEAR.
HIGHEST WATER LEVEL 213.80 FEET BELOW LAND SURFACE DATUM NOV 06, 1975.
LOWEST WATER LEVEL 253.69 FEET BELOW LAND SURFACE DATUM SEP 20, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 21	249.78	DEC 21	246.42	FEB 23	243.04	APR 21	240.60	JUN 24	244.15	AUG 20	251.90
NOV 25	247.63	JAN 25	244.27	MAR 23	241.91	MAY 24	239.82	JUL 21	249.02	SEP 23	252.85

WELL NAME 10S 27E 30CCC1 SITE NUMBER 423103113211101

FORMERLY SITE NUMBER 423105113211001, WELL NAME 10S 27E 30CC1. DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12 IN, DEPTH AND CASING INFORMATION NOT AVAILABLE. LATITUDE 42°31'03", LONGITUDE 113°21'11". LSD 4,417.60 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTH SIDE, 0.40 FT ABOVE LSD (SINCE JUL 27, 1964).

RECORDS AVAILABLE 1964-1965, 1980-1982, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 134.61 FEET BELOW LAND SURFACE DATUM MAY 21, 1986.
LOWEST WATER LEVEL 177.79 FEET BELOW LAND SURFACE DATUM SEP 14, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05	175.43	JAN 12	171.49	MAR 22	168.97	MAY 10	165.75	JUL 15	173.01	SEP 17	176.77

WELL NAME 10S 28E 15ADB1 SITE NUMBER 423322113093501

FORMERLY WELL NAME 10S 28E 15AD1. DRILLED IRRIGATION WATER-TABLE WELL IN RAFT FORMATION, DIAM 16 IN, DEPTH 566 FT, CASED TO 320 FT. LATITUDE 42°33'22", LONGITUDE 113°09'35". LSD ABOUT 4,445 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM EDGE OF SLOPING PIPE EAST SIDE, 0.80 FT ABOVE LSD (SINCE SEP 06, 1963).

RECORDS AVAILABLE 1963-1966, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 253.13 FEET BELOW LAND SURFACE DATUM APR 15, 1965.
LOWEST WATER LEVEL 329.46 FEET BELOW LAND SURFACE DATUM SEP 10, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 03	274.25	JAN 12	271.17	MAR 22	270.06	MAY 10	269.44	JUL 15	279.27P	SEP 17	278.39

WELL NAME 11S 20E 24DDD1 SITE NUMBER 422647114030401

DRILLED UNUSED WATER-TABLE WELL IN BANBURY FORMATION, DIAM 20 IN, DEPTH AND CASING INFORMATION NOT AVAILABLE. LATITUDE 42°26'47", LONGITUDE 114°03'04". LSD ABOUT 4,258 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 26, 1976 TO NOV 19, 1985. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF CORRUGATION PIPE EAST SIDE, 2.72 FT ABOVE LSD (SINCE JUL 23, 1980).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 215.50 FEET BELOW LAND SURFACE DATUM MAY 26, 1976.
LOWEST WATER LEVEL 314.09 FEET BELOW LAND SURFACE DATUM SEP 23, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 21	312.62	DEC 21	309.82	FEB 23	305.22	APR 21	302.55	JUN 24	298.33	AUG 20	307.36
NOV 25	311.51	JAN 20	307.36	MAR 22	303.47	MAY 24	299.88	JUL 21	302.17	SEP 23	314.09

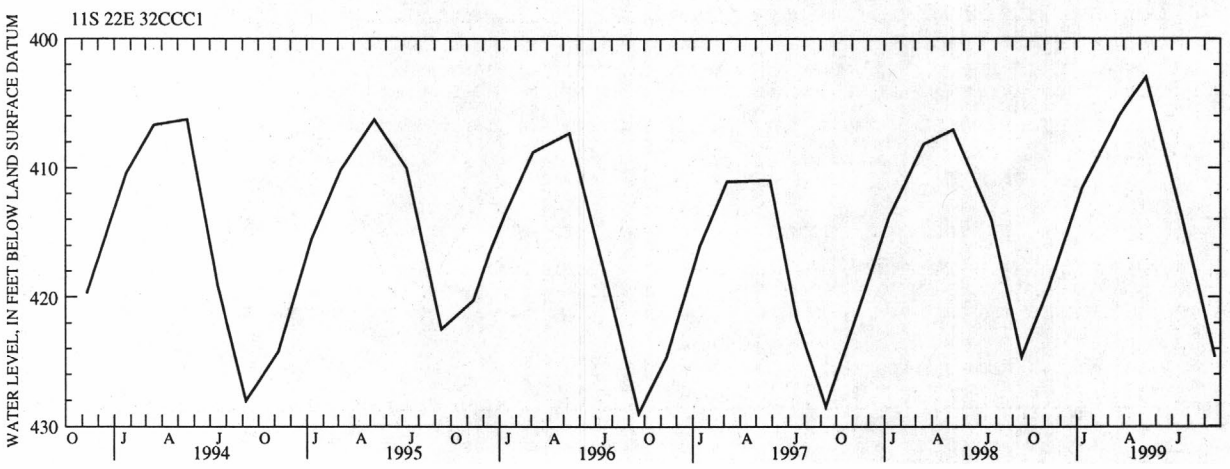
WELL NAME 11S 22E 32CCC1 SITE NUMBER 422501113543901

FORMERLY SITE NUMBER 422501113564801. DRILLED OBSERVATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 6 IN, DEPTH 635 FT, CASED TO 605 FT, CASING SEALED AT 605 FT. LATITUDE 42°25'01", LONGITUDE 113°54'39". LSD 4,309.70 FT ABOVE SEA LEVEL. RECORDER INSTALLED AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION JUN 02, 1972 TO DEC 17, 1974. MP NO. 2 TOP OF ACCESS HOLE, 2.61 FT ABOVE LSD (SINCE SEP 11, 1975).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.
HIGHEST WATER LEVEL 368.21 FEET BELOW LAND SURFACE DATUM MAY 04, 1976.
LOWEST WATER LEVEL 429.01 FEET BELOW LAND SURFACE DATUM SEP 20, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 09	419.28	JAN 11	411.53	MAR 23	405.91	MAY 13	402.97	JUL 20	413.89	SEP 21	424.63



WELL NAME 11S 23E 14DDD1 SITE NUMBER 422739113434001

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 10 TO 6 IN, DEPTH 68.5 FT, 6-IN CASING TO 68.5 FT, PERFORATED 60.5-63.5 FT. LATITUDE 42°27'39", LONGITUDE 113°43'40". LSD ABOUT 4,230 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE NOV 07, 1985).

RECORDS AVAILABLE 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 23.08 FEET BELOW LAND SURFACE DATUM SEP 11, 1986.
LOWEST WATER LEVEL 39.61 FEET BELOW LAND SURFACE DATUM MAY 14, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05	30.84	JAN 11	34.32	MAR 23	37.50	MAY 13	39.32	JUL 20	34.27	SEP 21	30.50

WELL NAME 11S 23E 34CDC1 SITE NUMBER 422458113452701

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 346.4 FT, CASED TO 282.3 FT. LATITUDE 42°24'58", LONGITUDE 113°45'27". LSD 4,271.11 FT ABOVE SEA LEVEL. JUL 01, 1971, WELL HAD FILLED IN TO A DEPTH OF 340.5 FT. MAY 18, 1979, WELL WAS DEEPENED TO A DEPTH OF 412.3 FT. MP NO. 3 TOP OF ACCESS HOLE WEST SIDE, 1.23 FT ABOVE LSD (SINCE MAY 12, 1992).

RECORDS AVAILABLE 1951, 1962 TO CURRENT YEAR.
HIGHEST WATER LEVEL 289.97 FEET BELOW LAND SURFACE DATUM JUN 05, 1951.
LOWEST WATER LEVEL 380.40 FEET BELOW LAND SURFACE DATUM JUL 15, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 09	360.95	JAN 11	357.66	MAR 23	354.53	MAY 13	352.53	JUL 20	368.12	SEP 21	366.64

WELL NAME 11S 24E 14BDB1 SITE NUMBER 422810113372001

DRILLED IRRIGATION WATER-TABLE WELL IN IDAVADA VOLCANICS. DIAM 24 TO 16 IN TO 850 FT, UNKNOWN BELOW 850 FT, DEPTH 1,400 FT, 20-IN CASING TO 428 FT, 14-IN CASING 740-760 FT, 12-IN CASING 760-842 FT, PERFORATED 299-429 FT, 760-842 FT. LATITUDE 42°28'10", LONGITUDE 113°37'20". LSD ABOUT 4,360 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM EDGE OF 2-IN COUPLING ON ACCESS PIPE SOUTHEAST SIDE, 0.40 FT ABOVE LSD (SINCE NOV 06, 1991).

RECORDS AVAILABLE 1991 TO CURRENT YEAR.
HIGHEST WATER LEVEL 327.17 FEET BELOW LAND SURFACE DATUM MAR 16, 1998.
LOWEST WATER LEVEL 399.06 FEET BELOW LAND SURFACE DATUM SEP 07, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 21	379.23	MAR 23	344.40	SEP 21	P

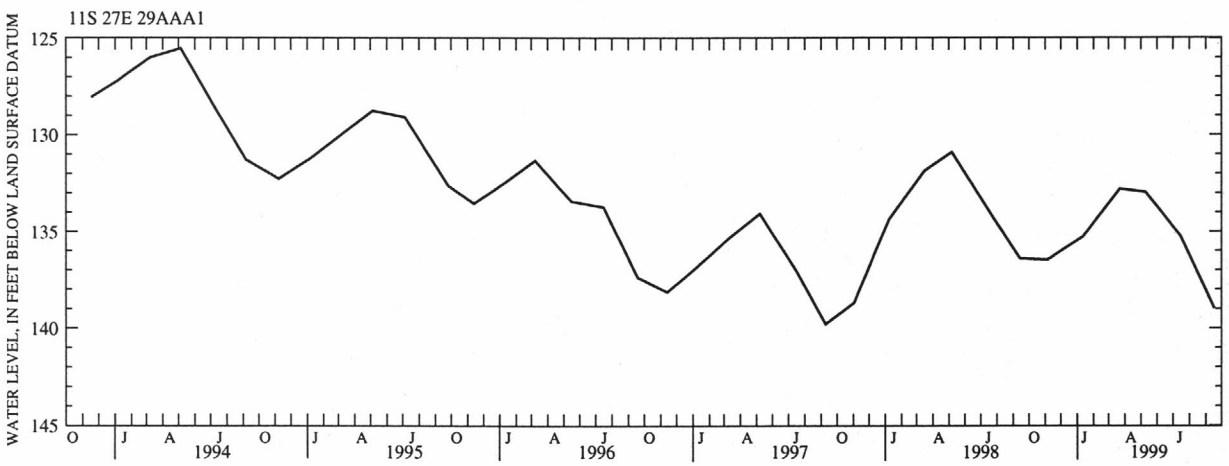
WELL NAME 11S 27E 29AAA1 SITE NUMBER 422639113260101

DRILLED UNUSED WATER-TABLE WELL IN RAFT FORMATION, DIAM 8 IN, DEPTH 247.4 FT, CASED TO 237 FT. LATITUDE 42°26'39", LONGITUDE 113°18'52". LSD 4,394.72 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 19, 1961 TO JUL 17, 1986. MP NO. 1 EDGE OF CASING NORTHEAST SIDE, 1.00 FT ABOVE LSD (SINCE AUG 11, 1950).

RECORDS AVAILABLE 1950-1952, 1960 TO CURRENT YEAR.
HIGHEST WATER LEVEL 32.75 FEET BELOW LAND SURFACE DATUM NOV 05, 1952.
LOWEST WATER LEVEL 139.81 FEET BELOW LAND SURFACE DATUM SEP 10, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05	136.49	JAN 12	135.27	MAR 22	132.80	MAY 10	132.97	JUL 15	135.23	SEP 17	138.98



WELL NAME 12S 19E 02BBB1 SITE NUMBER 422452114123201

DRILLED IRRIGATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DEPTH 750 FT, UNCASED OPEN HOLE. LATITUDE 42°24'52", LONGITUDE 114°12'32". LSD 4,268.27 FT ABOVE SEA LEVEL. IN 1953 WELL WAS DEEPENED TO ABOUT 900 FT. WATER LEVELS AFFECTED BY ARTICIFICAL GROUND-WATER RECHARGE PROJECT. MP NO. 1 TOP OF CONCRETE WEST SIDE OF HOLE BENEATH PUMP, 1.00 FT ABOVE LSD (SINCE OCT 17, 1951).

RECORDS AVAILABLE 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 100.98 FEET BELOW LAND SURFACE DATUM MAY 03, 1952.
LOWEST WATER LEVEL 478.01 FEET BELOW LAND SURFACE DATUM SEP 15, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 21	381.72	DEC 15	364.07	FEB 17	343.02	APR 23	317.69	JUN 11	341.57	AUG 24	408.34
NOV 09	382.01	JAN 14	353.01	MAR 24	328.88	MAY 26	378.28P	JUL 20	388.64	SEP 22	P

WELL NAME 12S 19E 03ADD1 SITE NUMBER 422437114123801

DRILLED STOCK WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 16 IN, DEPTH 750 FT, NOT CASED. LATITUDE 42°24'37", LONGITUDE 114°12'38". LSD ABOUT 4,295 FT ABOVE SEA LEVEL. MAR 23, 1993, WELL DEPTH SOUNDED AT 428.55 FT. RECORDER INSTALLED MAR 09, 1994. WATER LEVELS AFFECTED BY ARTIFICIAL GROUND-WATER RECHARGE PROJECT. MP NO. 5 TOP OF 3/4-IN PVC CROSS, 1.30 FT ABOVE LSD (SINCE SEP 20, 1995).

RECORDS AVAILABLE 1951, 1961, 1966-1967, 1976-1979, 1984, 1986 TO CURRENT YEAR.
HIGHEST WATER LEVEL 155.60 FEET BELOW LAND SURFACE DATUM OCT 17, 1951.
LOWEST WATER LEVEL WELL POSSIBLY DRY DURING PORTIONS OF YEARS 1990-1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 21	426.53	JAN 25	375.09	FEB 25	366.21	APR 25	346.18	MAY 25	359.23	JUN 22	381.73
NOV 18	404.28	31	373.12	28	365.82	30	345.02	31	363.34	JUL 12	415.60
DEC 16	389.50	FEB 05	371.79	MAR 05	364.71	MAY 05	343.71	JUN 05	365.26	AUG 09	424.65
JAN 11	379.75	10	370.47	10	363.48	10	342.11	10	364.64	SEP 13	420.65
15	378.29	15	369.23	15	362.15	15	343.74	15	370.38		
20	376.38	20	368.06	APR 20	347.63	20	348.40	20	379.62		

WELL NAME 12S 20E 04DBC1 SITE NUMBER 422424114070001

DRILLED UNUSED WATER-TABLE WELL IN BANBURY FORMATION, DIAM 14 TO 10 IN, DEPTH 565 FT, 14-IN TO 30 FT, 10-IN CASING 430-500 FT. LATITUDE 42°24'24", LONGITUDE 114°07'00". LSD ABOUT 4,320 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUL 08, 1976 TO APR 25, 1978. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 14-IN CASING SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE JUL 08, 1976).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 223.14 FEET BELOW LAND SURFACE DATUM APR 17, 1985.
LOWEST WATER LEVEL 279.80 FEET BELOW LAND SURFACE DATUM SEP 13, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 21	252.18	DEC 21	248.12	FEB 24	240.86	APR 21	237.91	JUN 24	240.11	AUG 20	248.62
NOV 24	249.96	JAN 20	243.53	MAR 23	239.64	MAY 24	236.80	JUL 27	244.53	SEP 21	250.54

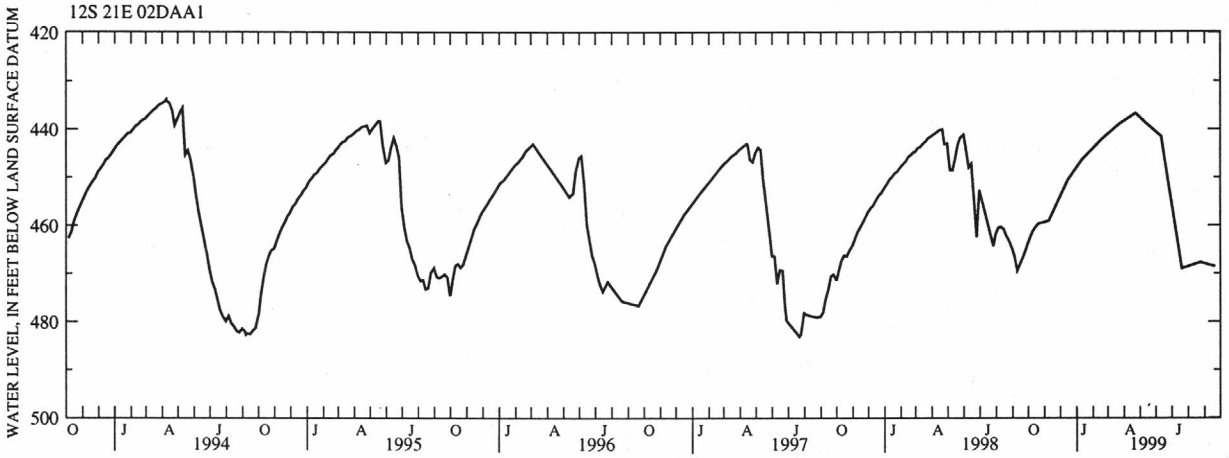
WELL NAME 12S 21E 02DAA1 SITE NUMBER 422434113570201

DRILLED OBSERVATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 6 IN, DEPTH 936 FT, CASED TO 907 FT, CASING SEALED AT 907 FT. LATITUDE 42°24'34", LONGITUDE 113°57'02". LSD 4,361.25 FT ABOVE SEA LEVEL. AUG 01, 1972, WELL HAD FILLED IN TO A DEPTH OF 918 FT. RECORDER INSTALLED AUG 01, 1972 TO JUL 24, 1996. RECORDER INSTALLED MAR 11, 1997 TO OCT 21, 1998. MP NO. 1 EDGE OF CASING NORTHEAST SIDE, 0.47 FT ABOVE LSD (SINCE FEB 03, 1972).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.
HIGHEST WATER LEVEL 373.12 FEET BELOW LAND SURFACE DATUM APR 26, 1976.
LOWEST WATER LEVEL 483.09 FEET BELOW LAND SURFACE DATUM JUL 22, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 05	462.36	OCT 20	459.69	JAN 12	446.29	APR 23	436.75	JUL 20	468.99		
10	461.20	NOV 09	459.07	FEB 17	442.21	MAY 13	438.82	AUG 24	467.72		
15	460.33	DEC 15	450.66	MAR 23	438.98	JUN 11	441.57	SEP 21	468.58		



WELL NAME 12S 21E 16DCC1 SITE NUMBER 422227113595901

DRILLED IRRIGATION WATER-TABLE IN ALLUVIUM OF QUATERNARY AGE, DIAM 20 TO 16 IN, DEPTH 256.7 FT, 20-IN CASING TO 98.7 FT, 18-IN CASING 98.7-127.3 FT, 16-IN CASING 127.3-233 FT. LATITUDE 42°22'27", LONGITUDE 113°59'59". LSD 4,377.99 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF CASING SOUTH SIDE, 0.90 FT ABOVE LSD (SINCE SEP 14, 1977).

RECORDS AVAILABLE 1962 TO CURRENT YEAR.
HIGHEST WATER LEVEL 101.03 FEET BELOW LAND SURFACE DATUM MAR 12, 1975.
LOWEST WATER LEVEL 139.34 FEET BELOW LAND SURFACE DATUM NOV 13, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 09	131.43	FEB 22	130.36	APR 19	129.67	JUN 16	128.73	AUG 09	128.02
JAN 14	130.95	MAR 24	130.08	MAY 13	129.32	JUL 20	128.82	SEP 21	128.75

WELL NAME 12S 21E 25CCC1 SITE NUMBER 422047113570101

DRILLED IRRIGATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 20 TO 12 IN, DEPTH 1,196 FT, 20-IN CASING TO 188 FT, 12-IN CASING 948-1,029 FT. LATITUDE 42°20'47", LONGITUDE 113°57'01". LSD 4,409.64 FT ABOVE SEA LEVEL. JUN 24, 1980, WELL WAS DEEPENED TO A DEPTH OF 1,870 FT. MP NO. 5 TOP OF ACCESS HOLE INSIDE PUMPBASE NORTHEAST SIDE, 1.01 FT ABOVE LSD (SINCE MAY 12, 1987).

RECORDS AVAILABLE 1962-1967, 1971 TO CURRENT YEAR.
HIGHEST WATER LEVEL 315.54 FEET BELOW LAND SURFACE DATUM MAR 23, 1976.
LOWEST WATER LEVEL 467.14 FEET BELOW LAND SURFACE DATUM AUG 26, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 09	415.22	FEB 22	400.44	APR 19	395.66	MAY 13	393.27	JUL 20	556.98P	SEP 22	434.53
JAN 14	404.67	MAR 24	397.53	MAY 03	393.91	JUN 16	535.74P	AUG 09	559.91P		

WELL NAME 12S 22E 06CCB1 SITE NUMBER 422419113554501

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 22 TO 16 IN, DEPTH AND CASING INFORMATION NOT AVAILABLE. LATITUDE 42°24'19", LONGITUDE 113°55'45". LSD ABOUT 4,338 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING WEST SIDE, 0.90 FT ABOVE LSD (SINCE JUN 27, 1958).

RECORDS AVAILABLE 1958, 1963, 1977, 1984 TO CURRENT YEAR.
HIGHEST WATER LEVEL 359.95 FEET BELOW LAND SURFACE DATUM JUN 27, 1958.
LOWEST WATER LEVEL 466.56 FEET BELOW LAND SURFACE DATUM SEP 07, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 17	420.96	SEP 14	455.64

WELL NAME 12S 22E 20DDC1 SITE NUMBER 422133113534001

DRILLED DOMESTIC WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 22 IN, DEPTH 997 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°21'33", LONGITUDE 113°53'40". LSD 4,370.5 FT ABOVE SEA LEVEL. OCT 24, 1957, WELL FILLED IN TO A DEPTH OF 828.3 FT. MP NO. 4 TOP OF 3/4-IN PVC TEE, 0.92 FT ABOVE LSD (SINCE JAN 10, 1985).

RECORDS AVAILABLE 1966-1967, 1977, 1984 TO CURRENT YEAR.
HIGHEST WATER LEVEL 262.49 FEET BELOW LAND SURFACE DATUM NOV 09, 1977.
LOWEST WATER LEVEL 418.58 FEET BELOW LAND SURFACE DATUM SEP 08, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

FEB 22	405.53	APR 19	403.14	JUN 08	405.23	AUG 10	407.08
MAR 17	403.90	MAY 18	402.48	JUL 13	409.75	SEP 14	407.58

WELL NAME 12S 22E 35BCC1 SITE NUMBER 422013113510501

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, DEPTH 810 FT, 22-IN CASING TO 222 FT, 16-IN CASING 0-400 FT. LATITUDE 42°20'13", LONGITUDE 113°51'05". LSD ABOUT 4,387 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 16-IN CASING SOUTH SIDE, 0.20 FT ABOVE LSD (SINCE NOV 06, 1985).

RECORDS AVAILABLE 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 405.12 FEET BELOW LAND SURFACE DATUM MAR 11, 1987.
LOWEST WATER LEVEL 490.43 FEET BELOW LAND SURFACE DATUM JUN 18, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 09	452.59	FEB 22	448.15	APR 19	445.60	MAY 18	421.59	JUL 20	478.17	SEP 22	451.37
JAN 14	449.80	MAR 24	446.48	MAY 03	426.99	JUN 16	469.60	AUG 09	453.68		

WELL NAME 12S 25E 06DCC1 SITE NUMBER 422405113343801

DRILLED DOMESTIC AND STOCK WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 102.3 FT, CASED TO 120 FT. ORIGINAL REPORTED DEPTH 120 FT. LATITUDE 42°24'05", LONGITUDE 113°34'38". LSD ABOUT 4,755 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE NORTH SIDE, 1.40 FT BELOW LSD (SINCE SEP 22, 1966).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL 2.21 FEET BELOW LAND SURFACE DATUM MAY 11, 1998.
LOWEST WATER LEVEL 44.09 FEET BELOW LAND SURFACE DATUM JUL 16, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05	10.50	MAR 22	6.02	MAY 13	4.99	SEP 17	35.45

WELL NAME 12S 25E 28AAA3 SITE NUMBER 422125113314901

DRILLED STOCK WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 8 IN, DEPTH 177.2 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°21'25", LONGITUDE 113°31'49". LSD ABOUT 5,356 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE NORTHWEST SIDE, 1.70 FT ABOVE LSD (SINCE SEP 20, 1966).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL 47.17 FEET BELOW LAND SURFACE DATUM SEP 18, 1998.
LOWEST WATER LEVEL 122.07 FEET BELOW LAND SURFACE DATUM JUN 17, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05	48.82	MAR 22	56.80	MAY 13	56.27	SEP 17	50.62

WELL NAME 13S 21E 06DAD1 SITE NUMBER 421915114014401

DRILLED UNUSED WATER-TABLE WELL IN LIMESTONE OF PALEOZOIC AGE, DIAM, DEPTH AND CASING INFORMATION NOT AVAILABLE. LATITUDE 42°19'15", LONGITUDE 114°01'44". LSD ABOUT 4,719 FT ABOVE SEA LEVEL. RECORDER INSTALLED JAN 21, 1987. WATER LEVELS AFFECTED BY ARTIFICIAL GROUND-WATER RECHARGE PROJECT. MP NO. 1 EDGE OF CASING EAST SIDE, 0.60 FT ABOVE LSD (SINCE MAR 28, 1984).

RECORDS AVAILABLE 1984 TO CURRENT YEAR.
HIGHEST WATER LEVEL 360.88 FEET BELOW LAND SURFACE DATUM MAY 13, 1986.
LOWEST WATER LEVEL 451.98 FEET BELOW LAND SURFACE DATUM SEP 26, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 05	437.71	DEC 05	430.87	FEB 05	425.43	APR 10	421.19	JUN 25	419.86	AUG 31	437.34
10	437.25	10	430.55	10	425.16	15	421.07	27	421.10	SEP 05	438.27
15	437.08	15	430.04	12	425.04	20	420.36	JUL 13	431.97	10	439.42
20	437.09	20	429.32	22	424.42	23	419.94	15	432.77	15	440.68
25	435.91	25	428.97	28	423.84	MAY 20	411.30	20	432.84	19	442.97
31	435.30	31	428.29	MAR 05	423.55	21	411.29	25	433.31	20	442.21
NOV 05	434.49	JAN 05	428.01	10	423.17	25	411.58	31	433.75	25	442.20
10	433.87	10	427.56	16	422.73	31	411.65	AUG 05	435.15	30	441.86
15	433.18	15	427.08	20	422.49	JUN 05	412.19	10	435.94		
20	432.58	20	426.52	25	422.10	10	412.72	15	435.27		
25	431.99	25	426.21	31	421.60	15	415.15	20	436.84		
30	431.31	31	425.78	APR 05	421.36	20	418.04	25	436.56		

WELL NAME 13S 21E 08BDD1 SITE NUMBER 421835114011201

DRILLED UNUSED WATER-TABLE WELL IN LIMESTONE OF PALEOZOIC AGE, DIAM 22 TO 12 IN, DEPTH 1,025 FT, 20-IN CASING TO 150 FT, 16-IN CASING 150-282 FT, 14-IN CASING 282-490 FT. LATITUDE 42°18'35", LONGITUDE 114°01'12". LSD 4,706.85 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAR 05, 1985. WATER LEVELS AFFECTED BY ARTIFICIAL GROUND-WATER RECHARGE PROJECT. MP NO. 3 EDGE OF 3/4-IN COUPLING, 1.33 FT ABOVE LSD (SINCE FEB 24, 1993).

RECORDS AVAILABLE 1961, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 122.40 FEET BELOW LAND SURFACE DATUM MAY 24, 1961.
LOWEST WATER LEVEL 443.60 FEET BELOW LAND SURFACE DATUM SEP 20, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 05	431.18	DEC 10	425.12	FEB 15	419.69	APR 20	415.08	JUN 20	410.97	AUG 25	429.68
10	430.55	15	424.65	20	419.42	25	414.08	25	413.62	31	430.40
15	430.46	20	423.94	25	418.78	30	412.60	30	416.18	SEP 05	431.25
20	430.77	25	423.64	28	418.78	MAY 05	410.66	JUL 05	419.25	10	432.01
25	429.85	31	422.93	MAR 05	418.48	10	408.00	10	421.87	15	433.15
31	429.21	JAN 05	422.72	10	418.12	15	405.90	15	424.05	20	434.77
NOV 05	428.66	10	422.30	15	417.68	20	404.80	20	424.68	25	434.70
10	428.10	15	421.86	20	417.48	25	403.89	25	425.78	28	435.21
15	427.50	20	421.32	25	417.10	25	404.00	31	425.93	30	434.97
20	426.96	25	421.01	31	416.58	31	405.23	AUG 05	426.93		

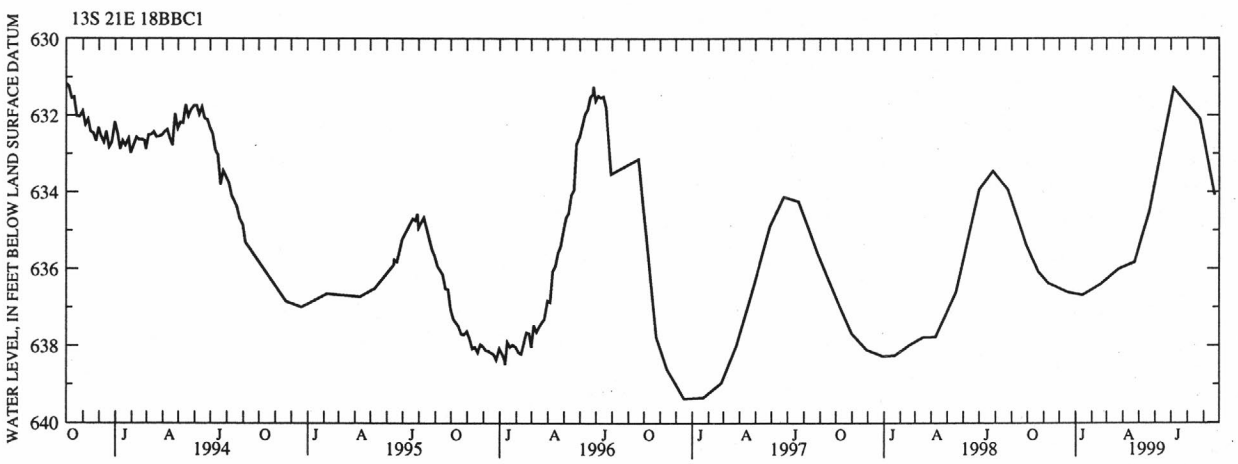
WELL NAME 13S 21E 18BBC1 SITE NUMBER 421755114024401

DRILLED UNUSED WATER-TABLE WELL IN LIMESTONE OF PALEOZOIC AGE, DIAM 17 TO 16 IN, DEPTH 850 FT, 16-IN CASING TO 20 FT, 17-IN CASING 20-80 FT, BOTTOM OF CASING SET IN CONCRETE SEAL. LATITUDE 42°17'55", LONGITUDE 114°02'44". LSD 4,953.63 ABOVE SEA LEVEL. JUL 17, 1968, WELL HAD FILLED IN TO A DEPTH OF 820.9 FT. RECORDER INSTALLED AUG 16, 1961 TO NOV 31, 1971. RECORDER INSTALLED MAY 03, 1972 TO JUL 30, 1996. WATER LEVELS AFFECTED BY ARTIFICIAL GROUND-WATER RECHARGE PROJECT. MP NO. 4 EDGE OF 1-IN PIPE FLANGE NORTHWEST SIDE, 2.07 FT ABOVE LSD (SINCE AUG 02, 1972).

RECORDS AVAILABLE 1961 TO CURRENT YEAR.
HIGHEST WATER LEVEL 362.14 FEET BELOW LAND SURFACE DATUM APR 19, 1961.
LOWEST WATER LEVEL 639.38 FEET BELOW LAND SURFACE DATUM DEC 16, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 21	636.08	DEC 18	636.62	FEB 17	636.41	APR 23	635.83	JUL 06	631.29	SEP 22	634.09
NOV 09	636.38	JAN 14	636.69	MAR 24	636.01	MAY 21	634.50	AUG 25	632.10		



WELL NAME 13S 22E 08ADD1 SITE NUMBER 421829113532801

DRILLED IRRIGATION WATER-TABLE WELL IN LIMESTONE OF PALEZOIC AGE, DIAM 16 IN, DEPTH 300 FT, CASED TO 300 FT, PERFORATED INTERVAL NOT AVAILABLE. LATITUDE 42°18'29", LONGITUDE 113°53'28". LSD 4,436.82 FT ABOVE SEA LEVEL. WATER LEVELS AFFECTED BY ARTIFICIAL GROUND-WATER RECHARGE PROJECT. MP NO. 1 TOP OF ACCESS HOLE IN PUMPBASE NORTH SIDE, 1.10 FT ABOVE LSD (SINCE APR 04, 1984).

RECORDS AVAILABLE 1984 TO CURRENT YEAR.
HIGHEST WATER LEVEL 39.66 FEET BELOW LAND SURFACE DATUM JUN 13, 1984.
LOWEST WATER LEVEL 155.77 FEET BELOW LAND SURFACE DATUM SEP 20, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

FEB 22	136.13	APR 19	138.50	JUN 16	135.85	AUG 10	130.34
MAR 17	137.15	MAY 18	137.17	JUL 13	132.23	SEP 14	131.64

WELL NAME 13S 22E 21CCD2 SITE NUMBER 421620113531701

DRILLED OBSERVATION WATER-TABLE WELL IN SILTY SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 1,004 FT, 8-IN CASING TO 543 FT, 6-IN CASING 536-1,000 FT, PERFORATED 560-606 FT. LATITUDE 42°16'20", LONGITUDE 113°53'17". LSD 4,491.80 FT ABOVE SEA LEVEL. RECORDER INSTALLED AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION JUN 01, 1972 TO DEC 17, 1974. MP NO. 5 TOP OF BREATHER PIPE, 2.62 FT ABOVE LSD (SINCE SEP 17, 1992).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.
HIGHEST WATER LEVEL 14.52 FEET BELOW LAND SURFACE DATUM OCT 24, 1984.
LOWEST WATER LEVEL 300.42 FEET BELOW LAND SURFACE DATUM SEP 08, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 09	222.16	FEB 22	215.70	MAR 24	207.22	MAY 18	252.52	JUN 16	208.25	AUG 09	224.68
JAN 14	221.07	MAR 17	214.78	APR 19	216.72	19	240.18	JUL 20	228.55	SEP 22	220.26

WELL NAME 13S 26E 01CCC1 SITE NUMBER 421852113222601

DRILLED IRRIGATION WATER-TABLE WELL IN GRAVEL OF QUATERNARY AGE, DIAM 16 IN, DEPTH 69 FT, CASED TO 66 FT, PERFORATED 24-43 FT, 46-64 FT. LATITUDE 42°18'52", LONGITUDE 113°22'26". LSD 4,517.63 FT ABOVE SEA LEVEL. IN 1959, WELL WAS DEEPENED TO A DEPTH OF 250 FT. JUN 23, 1965, WELL HAD FILLED IN TO A DEPTH OF 223.2 FT. MP NO. 2 BOTTOM EDGE OF SLOPING PIPE EAST SIDE, 0.98 FT ABOVE LSD (SINCE FEB 09, 1966).

RECORDS AVAILABLE 1949-1952, 1961 TO CURRENT YEAR.
HIGHEST WATER LEVEL 21.60 FEET BELOW LAND SURFACE DATUM JUN 19, 1950.
LOWEST WATER LEVEL 73.37 FEET BELOW LAND SURFACE DATUM MAY 10, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05	40.26	MAR 22	40.57	MAY 10	73.37	SEP 17	53.65

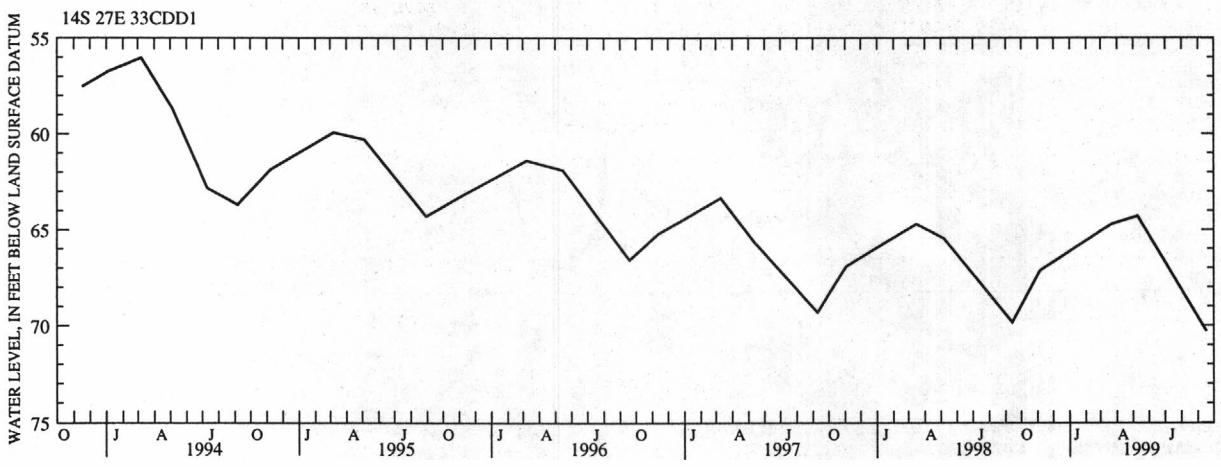
WELL NAME 14S 27E 33CDD1 SITE NUMBER 420917113181501

DRILLED UNUSED WATER-TABLE WELL IN COARSE GRAINED GRAVEL OF QUATERNARY AGE, DIAM 16 TO 14 IN, DEPTH 225 FT, 16-IN CASING TO 92 FT, 14-IN CASING 87-225 FT, PERFORATED 45-50 FT, 105-225 FT. LATITUDE 42°09'17", LONGITUDE 113°18'15". LSD ABOUT 3,715 FT ABOVE SEA LEVEL. JUN 22, 1965, WELL HAD FILLED IN TO A DEPTH OF 199.6 FT. RECORDER INSTALLED JUN 22, 1965 TO AUG 12, 1971. RECORDER INSTALLED JUL 26, 1977 TO JUL 17, 1986. MP NO. 1 EDGE OF CASING NORTHWEST SIDE, 1.00 FT ABOVE LSD (SINCE AUG 03, 1955.)

RECORDS AVAILABLE 1955, 1965 TO CURRENT YEAR.
HIGHEST WATER LEVEL 34.44 FEET BELOW LAND SURFACE DATUM NOV 23, 1971.
LOWEST WATER LEVEL 70.30 FEET BELOW LAND SURFACE DATUM SEP 17, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05	67.14	MAR 22	64.70	MAY 10	64.28	SEP 17	70.30



CLARK COUNTY

WELL NAME 11N 39E 07DBC1 SITE NUMBER 441740111540201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 13.5 TO 6.5 IN, DEPTH 758 FT, 10-IN CASING TO 21 FT, 2-IN CASING 0-754 FT, 2-IN SANDPOINT 754-758 FT, GRAVEL PACKED 3-758 FT. LATITUDE 44°17'40", LONGITUDE 111°54'02". LSD ABOUT 6,244 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 2-IN COUPLING, 2.60 FT ABOVE LSD (SINCE JUL 10, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 520.90 FEET BELOW LAND SURFACE DATUM SEP 13, 1999.
LOWEST WATER LEVEL 546.37 FEET BELOW LAND SURFACE DATUM JUL 19, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 523.68 JAN 21 523.26 MAR 15 523.02 MAY 04 522.87 JUL 07 522.25 SEP 13 520.90

WELL NAME 10N 34E 29BDD1 SITE NUMBER 441003112290801

DRILLED IRRIGATION WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 20 IN, DEPTH 390 FT, CASED TO 22 FT. LATITUDE 44°10'03", LONGITUDE 112°29'08". LSD ABOUT 5,030 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM LIP OF ACCESS PIPE NORTHWEST SIDE, 1.50 FT ABOVE LSD (SINCE MAR 19, 1980).

RECORDS AVAILABLE 1980, 1982 TO CURRENT YEAR.
HIGHEST WATER LEVEL 251.50 FEET BELOW LAND SURFACE DATUM APR 15, 1987.
LOWEST WATER LEVEL 281.15 FEET BELOW LAND SURFACE DATUM SEP 14, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 268.13 JAN 20 264.34 MAR 16 262.05 MAY 04 260.37 JUL 07 264.90 SEP 13 270.62

WELL NAME 10N 36E 21CCC1 SITE NUMBER 441030112135801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 398 FT, 4-IN PVC CASING TO 384.9 FT, PERFORATED 345-384 FT. LATITUDE 44°10'30", LONGITUDE 112°13'58". LSD 5,140 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 4-IN PVC CASING EAST SIDE, 1.20 FT BELOW LSD (SINCE AUG 16, 1994).

RECORDS AVAILABLE 1994 TO CURRENT YEAR.
HIGHEST WATER LEVEL 348.87 FEET BELOW LAND SURFACE DATUM MAY 04, 1999.
LOWEST WATER LEVEL 358.69 FEET BELOW LAND SURFACE DATUM SEP 14, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 350.80 JAN 19 349.55 MAR 15 349.19 MAY 04 348.87 JUL 07 349.25 SEP 13 350.82

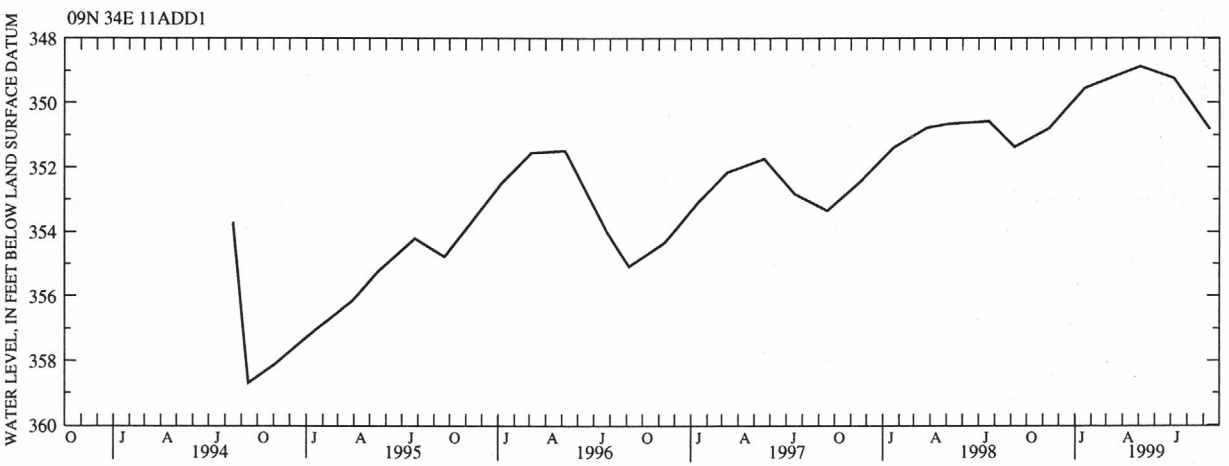
WELL NAME 09N 34E 11ADD1 SITE NUMBER 440725112245301

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, DEPTH 192.6 FT, CASED TO 208 FT. ORIGINAL DEPTH 208 FT. LATITUDE 44°07'25", LONGITUDE 112°24'53". LSD ABOUT 4,955 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 07, 1959 TO MAY 09, 1972. RECORDER INSTALLED JUL 09, 1977 TO JUL 12, 1988. MP NO. 2 EDGE OF CASING NORTHEAST SIDE, 2.32 FT ABOVE LSD (SINCE JUL 18, 1975).

RECORDS AVAILABLE 1957, 1985, 1994 TO CURRENT YEAR.
HIGHEST WATER LEVEL 148.57 FEET BELOW LAND SURFACE DATUM JAN 22, 1985.
LOWEST WATER LEVEL 166.10 FEET BELOW LAND SURFACE DATUM NOV 03, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 158.31 JAN 20 157.41 MAR 16 156.56 MAY 04 156.03 JUL 07 156.00 SEP 13 157.09



WELL NAME 09N 34E 29DAB1 SITE NUMBER 440447112284401

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 24 IN, DEPTH 256 FT, 16-IN CASING TO 256 FT, PERFORATED 134-256 FT. LATITUDE 44°04'47", LONGITUDE 112°28'45". LSD ABOUT 4,838 FT ABOVE SEA LEVEL. MP NO. 1 LOWER EDGE OF SLOPING ACCESS PIPE WEST SIDE, 1.73 FT ABOVE LSD (SINCE MAR 20, 1980).

RECORDS AVAILABLE 1980-1981, 1989, 1997 TO CURRENT YEAR.
HIGHEST WATER LEVEL 55.29 FEET BELOW LAND SURFACE DATUM MAR 20, 1980.
LOWEST WATER LEVEL 66.62 FEET BELOW LAND SURFACE DATUM AUG 22, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	62.54	JAN 20	59.65	MAR 16	58.55	MAY 04	57.79	JUL 07	82.57P	SEP 13	64.33

WELL NAME 09N 36E 04BAA1 SITE NUMBER 440841112133001

FORMERLY WELL NAME 09N 36E 04ABB1. DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 315 FT, CASED TO 276 FT. LATITUDE 44°08'41", LONGITUDE 112°13'30". LSD ABOUT 5,055 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE EAST SIDE, 1.50 FT ABOVE LSD (SINCE MAR 20, 1980).

RECORDS AVAILABLE 1980-1981, 1986 TO CURRENT YEAR.
HIGHEST WATER LEVEL 255.18 FEET BELOW LAND SURFACE DATUM MAR 20, 1980.
LOWEST WATER LEVEL 273.24 FEET BELOW LAND SURFACE DATUM SEP 14, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	265.40	JAN 19	264.20	MAR 15	263.83	MAY 04	263.90	JUL 07	264.00	SEP 13	266.20

WELL NAME 09N 36E 15CCC1 SITE NUMBER 440608112125001

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, DEPTH 200 FT, CASED TO 13 FT. LATITUDE 44°06'08", LONGITUDE 112°12'50". LSD ABOUT 4,952 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTH SIDE, 0.50 FT ABOVE LSD (SINCE MAR 20, 1980).

RECORDS AVAILABLE 1980-1981, 1986 TO CURRENT YEAR.
HIGHEST WATER LEVEL 156.91 FEET BELOW LAND SURFACE DATUM MAR 14, 1990.
LOWEST WATER LEVEL 166.90 FEET BELOW LAND SURFACE DATUM SEP 14, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	158.95	JAN 19	157.83	MAR 15	157.46	MAY 04	157.21	JUL 07	157.86	SEP 13	159.12

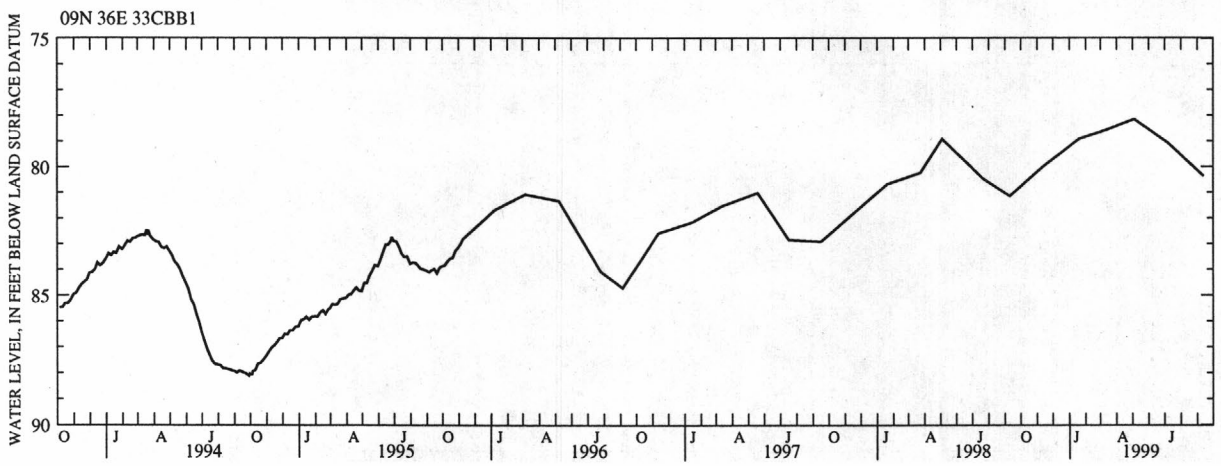
WELL NAME 09N 36E 33CBB1 SITE NUMBER 440353112135701

DRILLED INDUSTRIAL WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 155 FT, CASED TO 12 FT. LATITUDE 44°06'49", LONGITUDE 113°56'57". LSD ABOUT 4,865 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUL 08, 1977 TO NOV 09, 1995. MP NO. 3 TOP OF CONCRETE PLATFORM NORTHEAST SIDE, 0.43 FT ABOVE LSD (SINCE JUL 08, 1977).

RECORDS AVAILABLE 1963 TO CURRENT YEAR.
HIGHEST WATER LEVEL 71.77 FEET BELOW LAND SURFACE DATUM MAY 10, 1985.
LOWEST WATER LEVEL 88.12 FEET BELOW LAND SURFACE DATUM SEP 28, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	80.00	JAN 19	78.92	MAR 15	78.55	MAY 04	78.16	JUL 07	79.07	SEP 13	80.37



CUSTER COUNTY

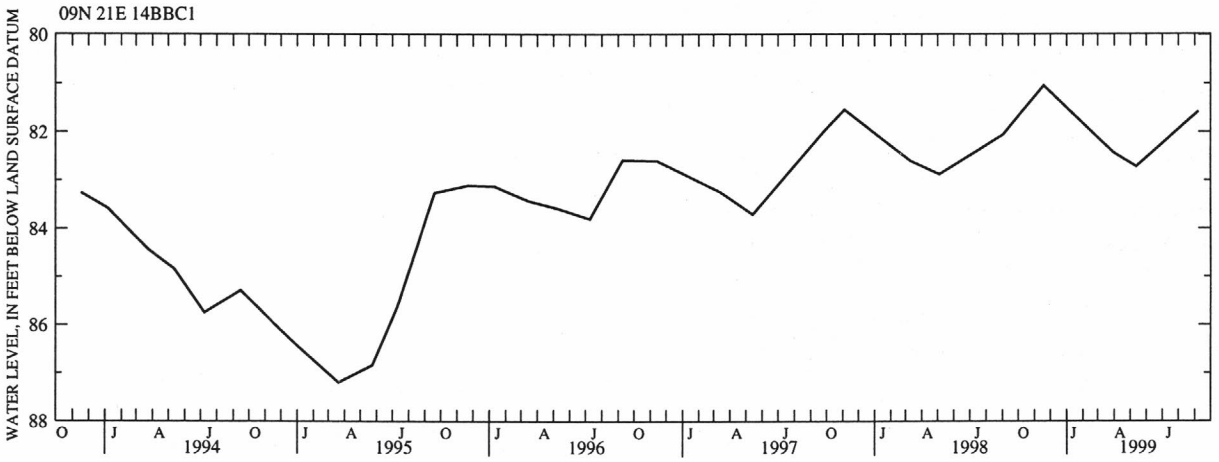
WELL NAME 09N 21E 14BBC1 SITE NUMBER 440649113565701

DRILLED IRRIGATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 16 IN, DEPTH 253.8 FT, CASED TO 267 FT, PERFORATED 167-267 FT. LATITUDE 44°06'49", LONGITUDE 113°56'57". LSD ABOUT 6,363 FT ABOVE SEA LEVEL. RECORDER INSTALLED SEP 30, 1966 TO FEB 04, 1972. RECORDER INSTALLED JUL 27, 1977 TO JUL 07, 1989. MP NO. 2 EDGE OF CASING NORTHEAST SIDE, 0.50 FT ABOVE LSD (SINCE SEP 30, 1966).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL 69.76 FEET BELOW LAND SURFACE DATUM NOV 02, 1983.
LOWEST WATER LEVEL 87.20 FEET BELOW LAND SURFACE DATUM MAR 21, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 18	81.05	MAR 30	82.43	MAY 12	82.72	SEP 08	81.58



FRANKLIN COUNTY

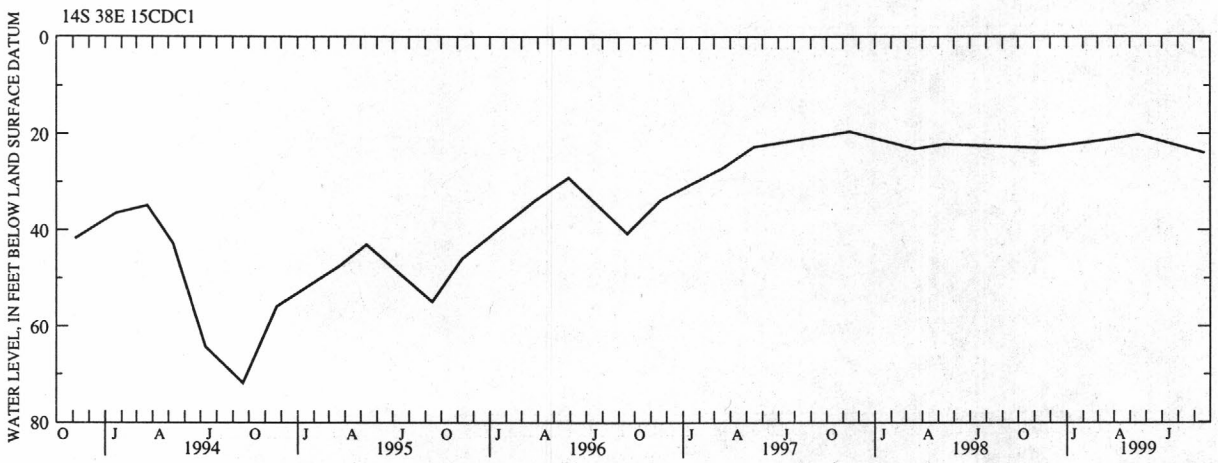
WELL NAME 14S 38E 15CDC1 SITE NUMBER 421156112002701

FORMERLY SITE NUMBER 421155112002801. DRILLED IRRIGATION WATER-TABLE WELL IN UNCONSOLIDATED ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN, REPORTED DEPTH 200 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°11'56", LONGITUDE 112°00'27". LSD ABOUT 4,795 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE IN PUMPBASE WEST SIDE, 0.70 FT ABOVE LSD (SINCE JUL 25, 1979).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 12.41 FEET BELOW LAND SURFACE DATUM MAY 21, 1986.
LOWEST WATER LEVEL 55.87 FEET BELOW LAND SURFACE DATUM NOV 23, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 18 22.95 MAR 24 21.17 MAY 17 20.20 SEP 21 23.93



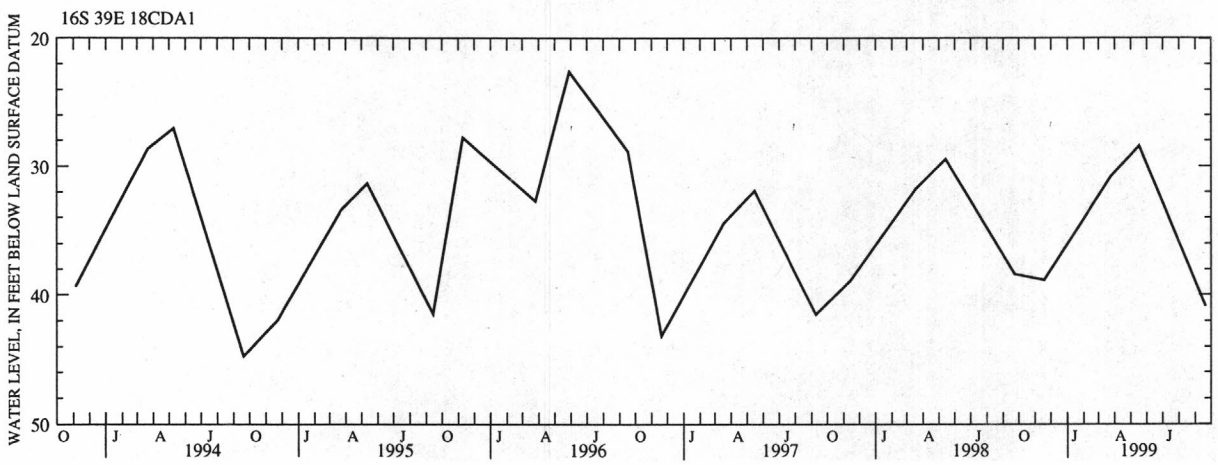
WELL NAME 16S 39E 18CDA1 SITE NUMBER 420150111564701

FORMERLY SITE NUMBER 420152111564801. DRILLED IRRIGATION WATER-TABLE WELL IN UNCONSOLIDATED ALLUVIUM OF QUATERNARY AGE, DIAM 14 IN, DEPTH 462 FT, CASED TO 462 FT, PERFORATED 204-212 FT, 238-242 FT, 252-265 FT, 271-273 FT. LATITUDE 42°01'50", LONGITUDE 111°56'47". LSD 4,542.7 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF CASING NORTH SIDE, 2.20 FT BELOW LSD (SINCE MAY 23, 1979).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 17.71 FEET BELOW LAND SURFACE DATUM JUL 03, 1969.
LOWEST WATER LEVEL 51.69 FEET BELOW LAND SURFACE DATUM SEP 23, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 18 38.85 MAR 24 30.84 MAY 17 28.45 SEP 21 40.88



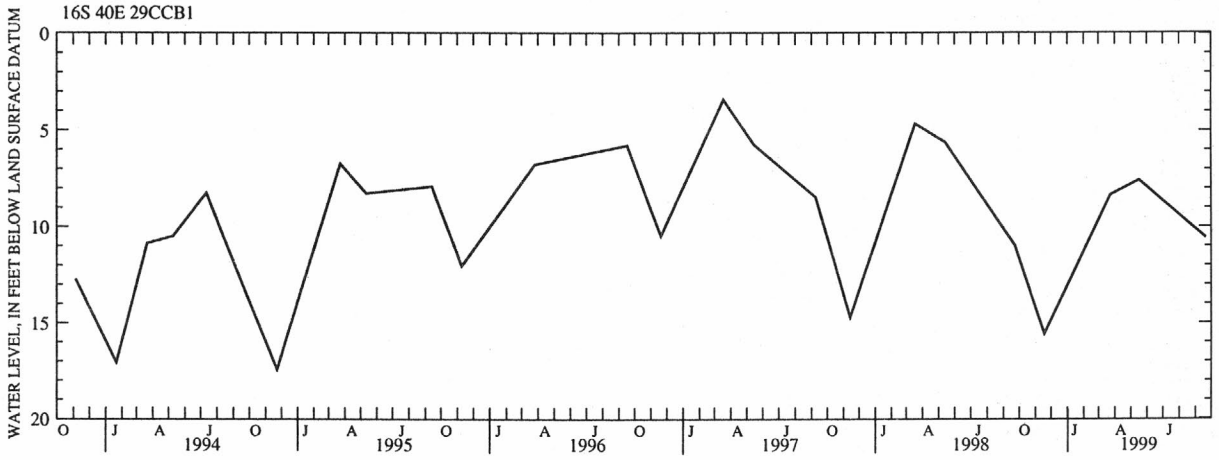
WELL NAME 16S 40E 29CCB1 SITE NUMBER 420011111485501

FORMERLY SITE NUMBER 420014111490001, WELL NAME 16S 40E 29CBC1. DRILLED UNUSED WATER-TABLE WELL IN UNCONSOLIDATED ALLUVIUM OF QUATERNARY AGE, DIAM 10 IN, DEPTH 81.5 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°00'11", LONGITUDE 111°48'55". LSD 4,504.9 FT ABOVE SEA LEVEL. RECORDER INSTALLED NOV 03, 1967 TO AUG 31, 1971. RECORDER INSTALLED NOV 21, 1978 TO JUL 16, 1992. MP NO. 1 EDGE OF 10-IN CASING EAST SIDE, 1.90 FT ABOVE LSD (SINCE JUL 10, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL .39 FEET BELOW LAND SURFACE DATUM JUN 23, 1992.
LOWEST WATER LEVEL 28.24 FEET BELOW LAND SURFACE DATUM FEB 16, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 18 15.58 MAR 24 8.35 MAY 17 7.59 SEP 21 10.59



FREMONT COUNTY

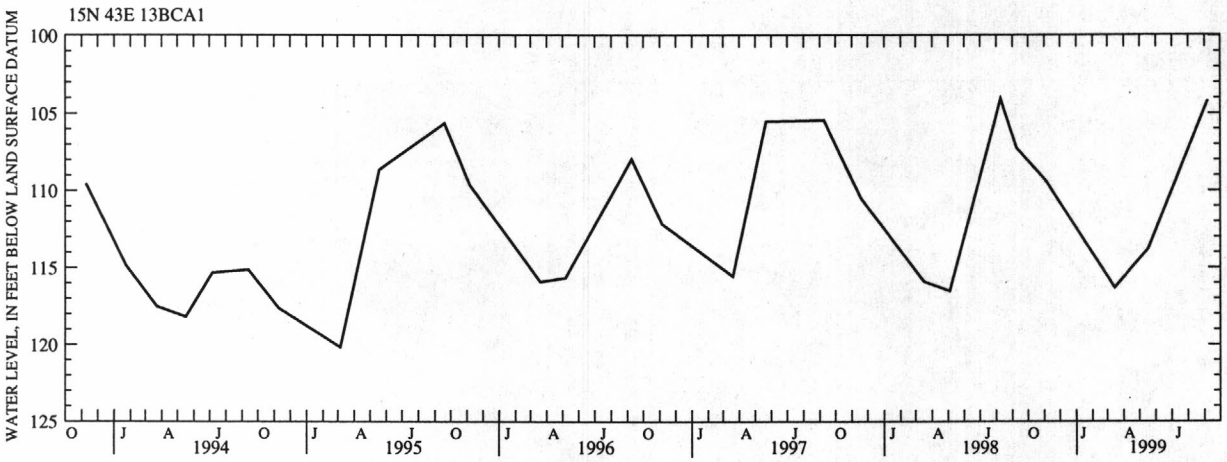
WELL NAME 15N 43E 13BCA1 SITE NUMBER 443745111195401

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF PLEISTOCENE AGE, DIAM 6 IN, DEPTH 155 FT, CASED TO 155 FT. LATITUDE 44°37'45", LONGITUDE 111°19'54". LSD ABOUT 6,620 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 3/4-IN ACCESS HOLE, 1.50 FT ABOVE LSD (SINCE JUN 12, 1974).

RECORDS AVAILABLE 1974 TO CURRENT YEAR.
HIGHEST WATER LEVEL 98.57 FEET BELOW LAND SURFACE DATUM JUL 05, 1984.
LOWEST WATER LEVEL 122.74 FEET BELOW LAND SURFACE DATUM MAR 17, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04 109.38 MAR 15 116.32 MAY 17 113.83 SEP 07 104.18



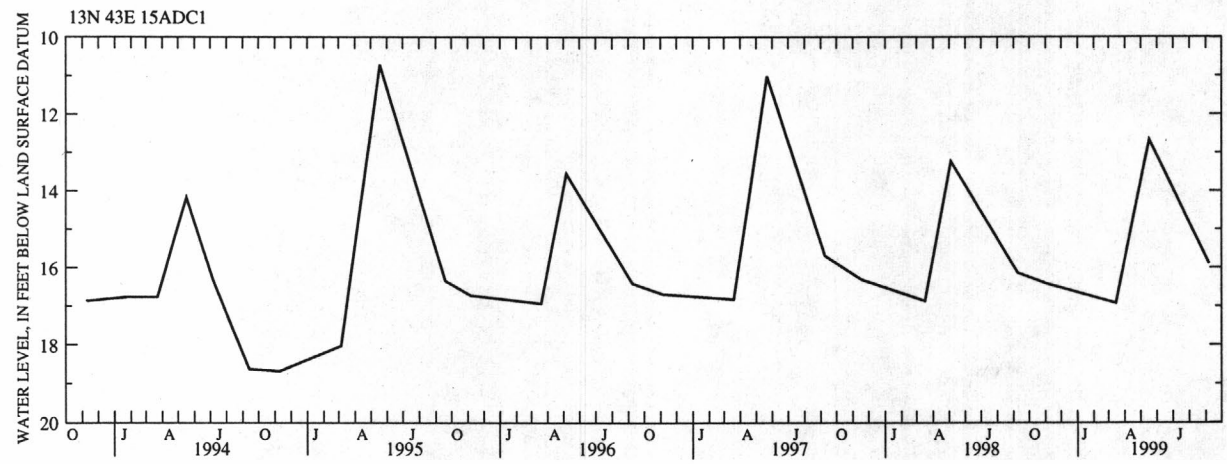
WELL NAME 13N 43E 15ADC1 SITE NUMBER 442709111213501

DRILLED COMMERCIAL WATER-TABLE WELL IN LAVA CREEK TUFF, DIAM 6 IN, DEPTH 58 FT, CASED TO 38 FT. LATITUDE 44°27'09", LONGITUDE 111°21'35". LSD ABOUT 6,300 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 0.30 FT ABOVE LSD (SINCE JUL 10, 1974).

RECORDS AVAILABLE 1974 TO CURRENT YEAR.
HIGHEST WATER LEVEL 10.71 FEET BELOW LAND SURFACE DATUM MAY 19, 1995.
LOWEST WATER LEVEL 19.15 FEET BELOW LAND SURFACE DATUM SEP 23, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04 16.42 MAR 15 16.92 MAY 17 12.66 SEP 07 15.90



WELL NAME 09N 38E 05BBA1 SITE NUMBER 440839112003101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 13.5 TO 6.5 IN, DEPTH 803.75 FT, 10-IN CASING TO 10 FT, 2-IN PVC CASING 0-745 FT, 765-775 FT, SCREENED 745-765 FT. LATITUDE 44°08'39", LONGITUDE 112°00'31". LSD ABOUT 5,495 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE STEEL FLANGE NORTH SIDE, 3.25 FT ABOVE LSD (SINCE JUL 10, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 701.28 FEET BELOW LAND SURFACE DATUM MAY 18, 1999.
LOWEST WATER LEVEL 710.20 FEET BELOW LAND SURFACE DATUM NOV 08, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05 702.69 JAN 14 702.00 MAR 16 701.35 MAY 18 701.28 JUL 08 701.30 SEP 08 702.69

WELL NAME 09N 39E 04AAC1 SITE NUMBER 440831111513901

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 5 1/2 IN, DEPTH 870 FT, CASED TO 10 FT. LATITUDE 44°08'31", LONGITUDE 111°51'39". LSD 5,668.20 FT ABOVE SEA LEVEL. AUG 1967, WELL WAS CLEANED AND DEEPENED TO A DEPTH OF 884.6 FT. MAY 19, 1993, WELL DEPTH SOUNDED AT 855 FT. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 4 TOP OF 1-IN NIPPLE SOUTHEAST SIDE, 2.21 FT ABOVE LSD (SINCE MAY 19, 1993).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 834.43 FEET BELOW LAND SURFACE DATUM JAN 13, 1986.
LOWEST WATER LEVEL 855.88 FEET BELOW LAND SURFACE DATUM SEP 18, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 18 846.09 MAY 19 846.41 JUL 27 846.79 SEP 22 845.78

WELL NAME 09N 40E 05DDD1 SITE NUMBER 440752111452901

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 5 1/2 IN, DEPTH 730 FT, CASED TO 5 FT. LATITUDE 44°07'52", LONGITUDE 111°45'29". LSD 5,535.40 FT ABOVE SEA LEVEL. AUG 1967, WELL WAS CLEANED AND DEEPENED TO A DEPTH OF 747.6 FT. MAY 28, 1992, WELL DEPTH SOUNDED AT 716 FT. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 4 TOP OF 1-IN NIPPLE WEST SIDE, 1.54 FT ABOVE LSD (SINCE OCT 21, 1983).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 691.97 FEET BELOW LAND SURFACE DATUM APR 10, 1971.
LOWEST WATER LEVEL 716.16 FEET BELOW LAND SURFACE DATUM JUL 19, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18 705.64 JAN 21 705.13 MAR 18 706.66 MAY 19 707.35 JUL 27 707.56 SEP 22 706.46

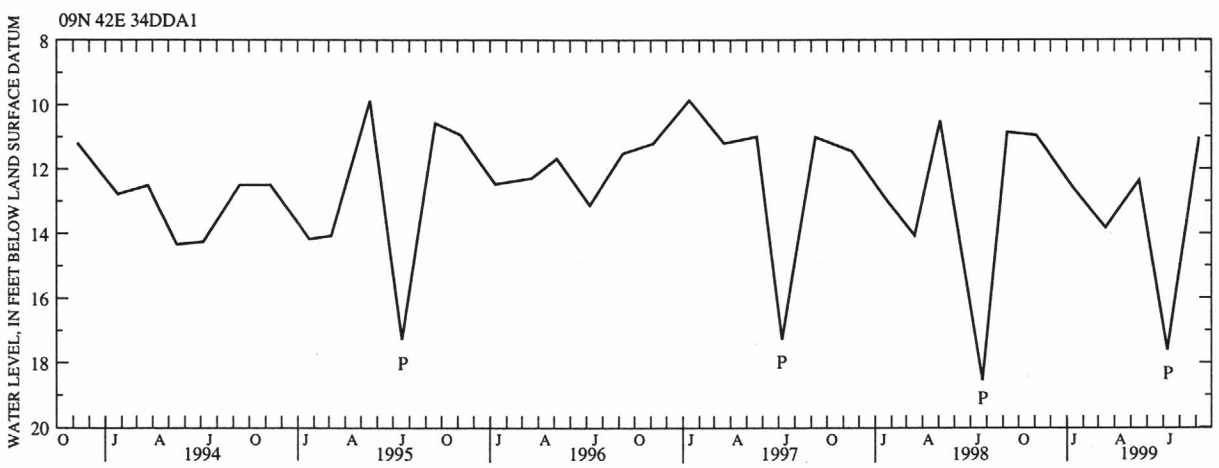
WELL NAME 09N 42E 34DDA1 SITE NUMBER 440332111283201

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 110 FT, CASED TO 7 FT. LATITUDE 44°03'32", LONGITUDE 111°28'32". LSD ABOUT 5,228 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF CASING WEST SIDE, 0.40 FT ABOVE LSD (SINCE NOV 17, 1997).

RECORDS AVAILABLE 1962 TO CURRENT YEAR.
HIGHEST WATER LEVEL 5.83 FEET BELOW LAND SURFACE DATUM SEP 28, 1986.
LOWEST WATER LEVEL 19.25 FEET BELOW LAND SURFACE DATUM JUL 01, 1985.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04 10.96 JAN 14 12.61 MAR 15 13.83 MAY 17 12.36 JUL 09 17.62P SEP 07 11.04



WELL NAME 08N 40E 01CAD1 SITE NUMBER 440253111412101

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 5 1/2 IN, DEPTH 355 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 44°02'53", LONGITUDE 111°41'21". LSD 5,160.00 FT ABOVE SEA LEVEL. AUG. 1967, WELL WAS CLEANED AND DEEPENED TO A DEPTH OF 376 FT, 4-IN CASING TO 60 FT. AUG 01, 1968, WELL DEPTH SOUNDED AT OF 338 FT. AUG 24, 1971, WELL WAS CLEANED TO A DEPTH OF 376 FT, INSTALLED 1 1/4-IN PIPE 0-375 FT, PERFORATED 350-365 FT. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF 1 1/4-IN PIPE COUPLING SOUTH SIDE, 0.65 FT ABOVE LSD (SINCE MAY 15, 1980).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 303.35 FEET BELOW LAND SURFACE DATUM OCT 20, 1970.
LOWEST WATER LEVEL 345.24 FEET BELOW LAND SURFACE DATUM MAY 23, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	333.83	JAN 19	334.01	MAR 17	335.22	MAY 19	336.59	JUL 26	335.81	SEP 20	335.44

WELL NAME 08N 40E 06CCC1 SITE NUMBER 440236111474701

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 13.5 TO 10 IN, DEPTH 323 FT, 10-IN CASING TO 21 FT, 6-IN PVC CASING 0-323 FT, PERFORATED 293-303 FT. LATITUDE 44°02'36", LONGITUDE 111°47'47". LSD ABOUT 5,090 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF STEEL FLANGE EAST SIDE, 1.00 FT ABOVE LSD (SINCE JUL 10, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 272.87 FEET BELOW LAND SURFACE DATUM NOV 18, 1997.
LOWEST WATER LEVEL 283.26 FEET BELOW LAND SURFACE DATUM MAY 23, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05	271.56	JAN 14	272.89	MAR 16	274.25	MAY 18	275.51	JUL 09	274.93	SEP 08	272.69

WELL NAME 08N 40E 21DDD2 SITE NUMBER 435958111441402

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 382 FT, 3/4-IN PIEZOMETER TUBE TO 215 FT, PERFORATED 207.5-212.5 FT, GRAVEL FILL 192-382 FT, CONCRETE SEAL 175-192 FT. LATITUDE 43°59'58", LONGITUDE 111°44'14". LSD 4,963.64 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 3/4-IN PIPE WEST SIDE, 1.07 FT ABOVE LSD (SINCE AUG 28, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 126.02 FEET BELOW LAND SURFACE DATUM SEP 26, 1986.
LOWEST WATER LEVEL 147.60 FEET BELOW LAND SURFACE DATUM MAR 19, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	136.08	JAN 19	137.08	MAR 17	139.31	MAY 19	140.09	JUL 26	138.39	SEP 20	136.01

WELL NAME 08N 41E 25CBB1 SITE NUMBER 435924111343701

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 140 FT, CASED TO 91 FT. LATITUDE 43°59'24", LONGITUDE 111°34'37". LSD ABOUT 5,075 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE JUN 06, 1986).

RECORDS AVAILABLE 1980, 1986 TO CURRENT YEAR.
HIGHEST WATER LEVEL 17.66 FEET BELOW LAND SURFACE DATUM NOV 04, 1991.
LOWEST WATER LEVEL 83.37 FEET BELOW LAND SURFACE DATUM MAR 19, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04	52.57	JAN 14	68.02	MAR 17	71.94	MAY 18	74.33	JUL 09	55.64	SEP 07	48.06

WELL NAME 08N 41E 33ABB1 SITE NUMBER 435904111373101

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 225 FT, 8-IN CASING TO 25 FT, 6-IN CASING 0-67 FT. LATITUDE 43°59'04", LONGITUDE 111°37'31". LSD ABOUT 5,010 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE NORTH SIDE, 1.00 FT ABOVE LSD (SINCE NOV 08, 1979).

RECORDS AVAILABLE 1979, 1986 TO CURRENT YEAR.
HIGHEST WATER LEVEL 31.65 FEET BELOW LAND SURFACE DATUM JUN 13, 1988.
LOWEST WATER LEVEL 67.05 FEET BELOW LAND SURFACE DATUM MAR 17, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04	61.48	JAN 14	61.53P	MAR 17	68.39R	MAY 18	60.72	JUL 09	56.70	SEP 07	53.69

WELL NAME 08N 42E 09BAB1 SITE NUMBER 440232111304501

DRILLED DOMESTIC WATER-TABLE WELL IN HUCKLEBERRY RIDGE TUFF, DIAM 6 IN, DEPTH 173 FT, CASED TO 18.5 FT. LATITUDE 44°02'32", LONGITUDE 111°30'45". LSD ABOUT 5,200 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.60 FT ABOVE LSD (SINCE JUN 06, 1986).

RECORDS AVAILABLE 1974, 1986 TO CURRENT YEAR.
HIGHEST WATER LEVEL 48.37 FEET BELOW LAND SURFACE DATUM JUL 24, 1986.
LOWEST WATER LEVEL 110.65 FEET BELOW LAND SURFACE DATUM JAN 16, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04	53.98R	JAN 14	77.32	MAR 15	127.92R	MAY 17	82.52	JUL 09	61.10	SEP 07	51.19

WELL NAME 08N 43E 06BAA1 SITE NUMBER 440324111254401

DRILLED DOMESTIC WATER-TABLE WELL IN FALLS RIVER BASALT, DIAM 6 IN, DEPTH 62 FT, CASED TO 19.5 FT. LATITUDE 44°03'24", LONGITUDE 111°25'44". LSD ABOUT 5,295 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF 1/2-IN ACCESS HOLE NORTH SIDE, 1.20 FT ABOVE LSD (SINCE MAR 21, 1989).

RECORDS AVAILABLE 1975, 1986 TO CURRENT YEAR.
HIGHEST WATER LEVEL 27.43 FEET BELOW LAND SURFACE DATUM OCT 22, 1986.
LOWEST WATER LEVEL 54.12 FEET BELOW LAND SURFACE DATUM MAR 17, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04	31.94	JAN 14	37.28	MAR 15	41.18	MAY 17	39.01	JUL 09	35.12	SEP 07	30.75

WELL NAME 07N 39E 01CCD1 SITE NUMBER 435724111485101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 122 FT, CASED TO 84.3 FT. LATITUDE 43°57'24", LONGITUDE 111°48'51". LSD 4,904.30 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 26, 1967 TO MAY 28, 1982. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING, 0.56 FT ABOVE LSD (SINCE JUL 13, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 70.09 FEET BELOW LAND SURFACE DATUM SEP 14, 1973.
LOWEST WATER LEVEL 93.21 FEET BELOW LAND SURFACE DATUM MAR 17, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	83.15	JAN 19	84.14	MAR 18	86.04	MAY 19	86.52	JUL 26	83.59	SEP 20	85.73

WELL NAME 07N 39E 07BDA1 SITE NUMBER 435705111542701

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 340 FT, CASED TO 75 FT, CONCRETE SEAL 69-75 FT. LATITUDE 43°57'05", LONGITUDE 111°54'27". LSD 4,874.50 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 26, 1974 TO SEP 26, 1980. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.44 FT ABOVE LSD (SINCE APR 25, 1974).

RECORDS AVAILABLE 1974 TO CURRENT YEAR.
HIGHEST WATER LEVEL 43.93 FEET BELOW LAND SURFACE DATUM NOV 20, 1975.
LOWEST WATER LEVEL 71.75 FEET BELOW LAND SURFACE DATUM MAY 20, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	62.78	JAN 19	63.34	MAR 18	64.90	MAY 19	64.73	JUL 26	63.11	SEP 20	60.94

WELL NAME 07N 39E 16DBB1 SITE NUMBER 435605111515803

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 444 FT, CASED TO 215 FT, CONCRETE SEAL 185-215 FT. LATITUDE 43°56'05", LONGITUDE 111°51'58". LSD 4,872.84 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUN 14, 1969 TO MAY 28, 1982. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING EAST SIDE, 1.37 FT ABOVE LSD (SINCE MAR 03, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 52.21 FEET BELOW LAND SURFACE DATUM SEP 23, 1986.
LOWEST WATER LEVEL 68.98 FEET BELOW LAND SURFACE DATUM MAR 18, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	60.38	JAN 20	61.00	MAR 18	62.33	MAY 19	62.80	JUL 26	61.09	SEP 20	59.63

WELL NAME 07N 39E 16DBB2 SITE NUMBER 435605111515802

DRILLED OBSERVATION WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 12 TO 6 IN, DEPTH 107 FT, 12-IN CASING TO 56 FT, 8-IN CASING 0-96 FT, 6-IN CASING 90-96 FT, 101-105 FT, SCREENED 96-101 FT. LATITUDE 43°56'05", LONGITUDE 111°51'58". LSD 4,872.64 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUN 14, 1969 TO MAY 28, 1982. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 8-IN CASING EAST SIDE, 0.91 FT ABOVE LSD (SINCE MAR 03, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 21.45 FEET BELOW LAND SURFACE DATUM OCT 04, 1969.
LOWEST WATER LEVEL 52.19 FEET BELOW LAND SURFACE DATUM MAY 20, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	41.47	JAN 20	43.20	MAR 18	46.31	MAY 19	47.74P	JUL 26	45.34	SEP 20	42.02

WELL NAME 07N 39E 16DBB3 SITE NUMBER 435605111515801

DRILLED OBSERVATION WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 38 FT, 8-IN CASING TO 28 FT, 6-IN CASING 25-28 FT, 33-37 FT, SCREENED 28-33 FT. LATITUDE 43°56'05", LONGITUDE 111°51'58". LSD 4,872.54 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUN 14, 1969 TO MAY 28, 1982. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING EAST SIDE, 0.69 FT ABOVE LSD (SINCE MAR 11, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.78 FEET BELOW LAND SURFACE DATUM JUL 22, 1987.
LOWEST WATER LEVEL WELL DRY FEB 15 TO APR 05, 1973.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	25.17	JAN 20	28.60	MAR 18	33.90	MAY 19	19.17	JUL 26	16.95	SEP 20	15.56

WELL NAME 07N 40E 05DBC1 SITE NUMBER 435736111460201

DRIVEN OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 39.3 FT, CASED TO 37.3 FT, SANDPOINT 37.3-39.3 FT. LATITUDE 43°57'36", LONGITUDE 111°46'02". LSD 4,919.86 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 1 1/4-IN PIPE NORTH SIDE, 0.70 FT ABOVE LSD (SINCE NOV 08, 1966).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL 2.75 FEET BELOW LAND SURFACE DATUM AUG 05, 1974.
LOWEST WATER LEVEL 14.71 FEET BELOW LAND SURFACE DATUM MAR 15, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	7.40	JAN 19	8.74	MAR 17	10.91	MAY 19	10.67	JUL 26	8.33	SEP 20	6.84

WELL NAME 07N 40E 19ADD2 SITE NUMBER 435516111464004

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 10 TO 6 IN, DEPTH 355 FT, 10-IN CASING TO 18.8 FT, 8-IN CASING 0-107 FT, 6-IN CASING 0-144 FT, CONCRETE SEAL 135-144 FT. LATITUDE 43°55'16", LONGITUDE 111°46'40". LSD 4,856.33 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUL 03, 1968 TO AUG 24, 1982. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING EAST SIDE, 0.84 FT ABOVE LSD (SINCE JUL 03, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL 23.89 FEET BELOW LAND SURFACE DATUM SEP 24, 1986.
LOWEST WATER LEVEL 44.08 FEET BELOW LAND SURFACE DATUM MAR 06, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	33.99	JAN 20	34.86	MAR 17	36.89	MAY 17	37.78	JUL 26	34.55	SEP 22	32.66

WELL NAME 07N 40E 19ADD3 SITE NUMBER 435516111464003

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 TO 4 IN, DEPTH 40.5 FT, 8-IN CASING TO 31.3 FT, 4-IN CASING 29-33.5 FT, 38.5-40.5 FT, SCREENED 33.5-38.5 FT. LATITUDE 43°55'16", LONGITUDE 111°46'40". LSD 4,856.33 FT ABOVE SEA LEVEL. RECORDER INSTALLED FEB 13, 1970 TO AUG 24, 1982. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING EAST SIDE, 0.99 FT ABOVE LSD (SINCE JUL 31, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL 10.66 FEET BELOW LAND SURFACE DATUM AUG 14, 1972.
LOWEST WATER LEVEL 27.62 FEET BELOW LAND SURFACE DATUM MAR 06, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	17.83	JAN 20	19.36	MAR 17	21.81	MAY 17	22.13	JUL 26	13.97	SEP 22	13.63

WELL NAME 07N 40E 19ADD4 SITE NUMBER 435516111464002

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 TO 4 IN, DEPTH 20.5 FT, 8-IN CASING TO 10.7 FT, 4-IN CASING 9-13.5 FT, SCREENED 13.5-18.5 FT. LATITUDE 43°55'16", LONGITUDE 111°46'40". LSD 4,856.93 FT ABOVE SEA LEVEL. RECORDER INSTALLED FEB 13, 1970 TO SEP 29, 1980. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING EAST SIDE, 1.14 FT ABOVE LSD (SINCE JUL 31, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL 1.08 FEET BELOW LAND SURFACE DATUM JUL 03, 1972.
LOWEST WATER LEVEL 11.68 FEET BELOW LAND SURFACE DATUM APR 20, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	6.16	JAN 20	7.25	MAR 17	7.99	MAY 17	5.94	JUL 26	1.88	SEP 22	2.11

WELL NAME 07N 40E 23CCB1 SITE NUMBER 435457111430001

DRIVEN OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 50.2 FT, CASED TO 48.2 FT, SANDPOINT 48.2-50.2 FT. LATITUDE 43°54'57", LONGITUDE 111°43'00". LSD 4,923.83 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 1 1/4-IN PIPE EAST SIDE, 1.23 FT ABOVE LSD (SINCE NOV 08, 1966).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL 10.75 FEET BELOW LAND SURFACE DATUM AUG 15, 1968.
LOWEST WATER LEVEL WELL DRY DURING PORTIONS OF YEARS 1967-1984; MAY 18, 1993; MAY 08, 1996; MAY 20, JUL 27,1998, JULY 26, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	38.12	JAN 20	39.93	MAR 18	45.66	MAY 17	48.01	JUL 26	D	SEP 22	40.64

WELL NAME 07N 41E 14ABA1 SITE NUMBER 435626111350401

DRILLED UNUSED WATER-TABLE WELL IN HUCKLEBERRY RIDGE TUFF, DIAM, DEPTH, AND CASING INFORMATION NOT AVAILABLE. LATITUDE 43°56'26", LONGITUDE 111°35'04". LSD 5,105.90 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF 3/8-IN ACCESS HOLE IN PUMPBASE EAST SIDE, 1.30 FT ABOVE LSD (SINCE MAR 26, 1980).

RECORDS AVAILABLE 1962, 1966, 1980, 1986 TO CURRENT YEAR.
HIGHEST WATER LEVEL 110.95 FEET BELOW LAND SURFACE DATUM SEP 09, 1998.
LOWEST WATER LEVEL 128.95 FEET BELOW LAND SURFACE DATUM MAR 16, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04	114.79	JAN 14	118.61	MAR 17	121.36	MAY 18	121.80	JUL 09	112.69	SEP 07	110.80

WELL NAME 07N 41E 32DDA1 SITE NUMBER 435312111381001

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 15 TO 8 IN, DEPTH 375 FT, 12-IN CASING TO 160 FT. LATITUDE 43°53'12", LONGITUDE 111°38'10". LSD ABOUT 4,990 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF 1 1/2-IN PIPE ON NORTH SIDE OF PUMP, 1.93 FT ABOVE LSD (SINCE SEP 17, 1992).

RECORDS AVAILABLE 1986 TO CURRENT YEAR.
HIGHEST WATER LEVEL 109.11 FEET BELOW LAND SURFACE DATUM SEP 24, 1986.
LOWEST WATER LEVEL 146.72 FEET BELOW LAND SURFACE DATUM MAR 06, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04	123.19	JAN 14	123.19	MAR 17	137.73	MAY 18	138.59	JUL 09	127.88	SEP 07	123.92

WELL NAME 07N 42E 06DDA1 SITE NUMBER 435727111321901

DRILLED IRRIGATION WATER-TABLE WELL IN SILICIC VOLCANIC ROCK OF TERTIARY AGE, DIAM 20 IN, DEPTH 910 FT, CASED TO 125 FT. LATITUDE 43°57'27", LONGITUDE 111°32'19". LSD 5,264.46 FT ABOVE SEA LEVEL. PERIODIC MEASUREMENTS AFTER APR 21, 1975 MADE BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE MAR 18, 1982).

RECORDS AVAILABLE 1962, 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL 231.40 FEET BELOW LAND SURFACE DATUM NOV 22, 1971.
LOWEST WATER LEVEL 288.83 FEET BELOW LAND SURFACE DATUM AUG 13, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 17	265.54	JUL 09	258.11	SEP 07	249.99						

WELL NAME 07N 42E 17BAD1 SITE NUMBER 435615111315001

DRILLED OBSERVATION WATER-TABLE WELL IN HUCKLEBERRY RIDGE TUFF, DIAM 10 TO 6 IN, DEPTH 500 ft, 10-IN CASING TO 37.5 FT, 6-IN CASING 0-500 FT, PERFORATED 427.7-500 FT. LATITUDE 43°56'15", LONGITUDE 111°31'50". LSD 5,318.70 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 17, 1972 TO MAY 28, 1982. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 6-IN CASING WEST SIDE, 0.80 FT ABOVE LSD (SINCE OCT 17, 1972).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.
HIGHEST WATER LEVEL 186.06 FEET BELOW LAND SURFACE DATUM JUN 07, 1976.
LOWEST WATER LEVEL 356.63 FEET BELOW LAND SURFACE DATUM JUL 21, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	337.73	JAN 19	318.29	MAR 17	318.05	MAY 19	318.21	JUL 26	342.59P	SEP 20	334.37

WELL NAME 07N 42E 19ABA1 SITE NUMBER 435532111324101

DRILLED OBSERVATION WATER-TABLE WELL IN HUCKLEBERRY RIDGE TUFF, DIAM 4 TO 1 1/2 IN, DEPTH 500 FT, 4-IN CASING TO 45 FT, 1 1/2-IN CASING 0-500 FT, PERFORATED 480-500 FT. LATITUDE 43°55'34", LONGITUDE 111°32'43". LSD 5,332.98 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.51 FT ABOVE LSD (SINCE JUL 27, 1972).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.
HIGHEST WATER LEVEL 137.04 FEET BELOW LAND SURFACE DATUM JUN 01, 1976.
LOWEST WATER LEVEL 351.74 FEET BELOW LAND SURFACE DATUM MAR 19, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	333.42	JAN 19	337.58	MAR 17	337.92	MAY 19	336.48	JUL 26	338.83P	SEP 20	339.55

WELL NAME 07N 43E 12BCB1 SITE NUMBER 435402111201101

DRILLED OBSERVATION WATER-TABLE WELL IN HUCKLEBERRY RIDGE TUFF, DIAM 6 IN, DEPTH 420 FT, CASED TO 420 FT, PERFORATED 390-420 FT. LATITUDE 43°54'02", LONGITUDE 111°20'11". LSD 5,720.20 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 TOP OF 1 1/2-IN ACCESS HOLE NORTH SIDE, 1.76 FT ABOVE LSD (SINCE NOV 23, 1983).

RECORDS AVAILABLE 1975 TO CURRENT YEAR.
HIGHEST WATER LEVEL 244.51 FEET BELOW LAND SURFACE DATUM JUN 13, 1976.
LOWEST WATER LEVEL 332.60 FEET BELOW LAND SURFACE DATUM MAR 19, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	304.51	JAN 19	305.14	MAR 17	306.33	MAY 19	299.17	JUL 26	301.91	SEP 20	304.34

WELL NAME 07N 44E 02AAA1 SITE NUMBER 435808111131101

DRILLED DOMESTIC WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 6 IN, DEPTH 213.5 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°58'08", LONGITUDE 111°13'11". LSD ABOUT 6,040 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF CASING NORTH SIDE, 2.32 FT ABOVE LSD (SINCE JUL 14, 1980).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 93.27 FEET BELOW LAND SURFACE DATUM MAR 11, 1986.
LOWEST WATER LEVEL 137.82 FEET BELOW LAND SURFACE DATUM MAR 19, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 15	109.80	SEP 07	94.73

WELL NAME 05S 14E 12AAA1 SITE NUMBER 430040114435501

FORMERLY SITE NUMBER 430039114435701. DRILLED OBSERVATION WELL IN BANBURY FORMATION, DIAM 14 TO 10 IN, DEPTH 2,000 FT, 13 3/8-IN CASING TO 30 FT, 9 5/8-IN CASING 30-300 FT. LATITUDE 43°00'40", LONGITUDE 114°43'55". LSD ABOUT 3,609 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING WEST SIDE, 2.00 FT ABOVE LSD (SINCE AUG 25, 1982).

RECORDS AVAILABLE 1982, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 107.14 FEET BELOW LAND SURFACE DATUM SEP 22, 1986.
LOWEST WATER LEVEL 131.00 FEET BELOW LAND SURFACE DATUM FEB 22, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	108.56	JAN 11	111.33	MAR 10	113.86	MAY 10	114.59	JUL 13	110.85	SEP 17	108.30

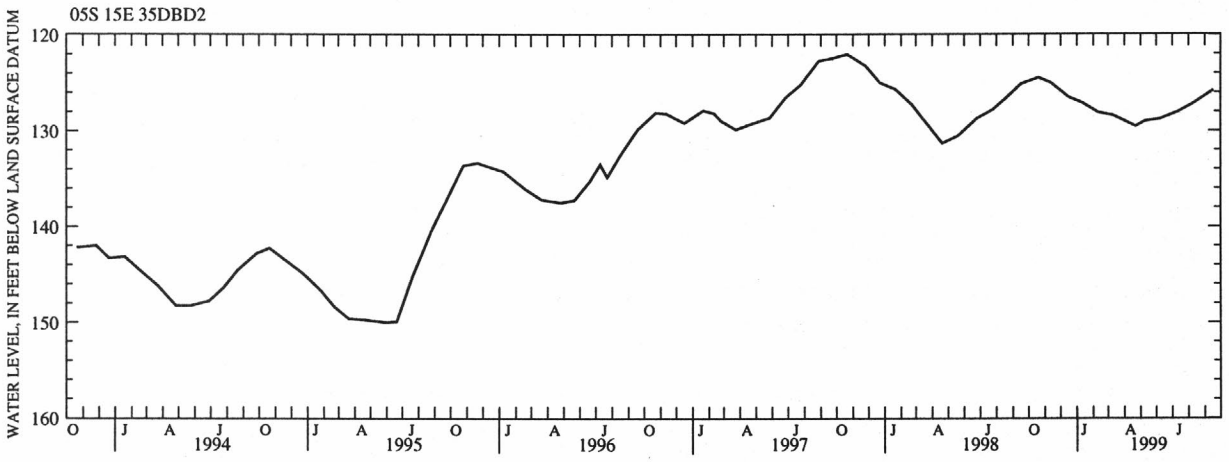
WELL NAME 05S 15E 35DBD2 SITE NUMBER 425635114382302

FORMERLY SITE NUMBER 425634114382601, WELL NAME 05S 15E 35DBC2. DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 5 IN, DEPTH 165 FT, CASED TO 126 FT. LATITUDE 42°56'35", LONGITUDE 114°38'23". LSD 3,627.31 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 1.29 FT ABOVE LSD (SINCE JUN 06, 1972).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.
HIGHEST WATER LEVEL 120.84 FEET BELOW LAND SURFACE DATUM SEP 22, 1972.
LOWEST WATER LEVEL 156.91 FEET BELOW LAND SURFACE DATUM MAY 21, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 20	124.44	DEC 16	126.49	FEB 10	128.08	APR 22	129.51	JUN 08	128.77	AUG 09	127.20
NOV 12	124.98	JAN 11	127.10	MAR 10	128.39	MAY 10	128.99	JUL 13	127.98	SEP 17	125.77



WELL NAME 06S 13E 08BDA2 SITE NUMBER 425511114562301

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 320 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°55'11", LONGITUDE 114°56'23". LSD ABOUT 3,250 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 6-IN CASING, 1.00 FT ABOVE LSD (SINCE MAR 24, 1987)

RECORDS AVAILABLE 1987 TO CURRENT YEAR.
HIGHEST WATER LEVEL 69.78 FEET BELOW LAND SURFACE DATUM JUN 12, 1997.
LOWEST WATER LEVEL 145.12 FEET BELOW LAND SURFACE DATUM FEB 03, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 19	76.50	DEC 16	75.06	FEB 10	70.01	APR 19	73.74	JUN 08	71.85	AUG 09	79.27
NOV 23	70.03	JAN 11	73.64	MAR 22	70.12	MAY 10	72.53	JUL 13	79.75	SEP 17	88.90

WELL NAME 07S 14E 33BBB1 SITE NUMBER 424653114494601

DRILLED DOMESTIC WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 6 IN, DEPTH 180 FT, CASED TO 20 FT. LATITUDE 42°46'53", LONGITUDE 114°49'46". LSD ABOUT 3,271 FT ABOVE SEA LEVEL. MP NO. 1 TOP 1 1/2-IN ACCESS HOLE WEST SIDE, 1.40 FT ABOVE LSD (SINCE AUG 06, 1985).

RECORDS AVAILABLE 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 99.11 FEET BELOW LAND SURFACE DATUM OCT 15, 1986.
LOWEST WATER LEVEL 109.98 FEET BELOW LAND SURFACE DATUM MAR 17, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 23	102.30	JAN 11	103.58	MAR 09	104.68	MAY 10	102.30	JUL 14	100.66	SEP 17	102.60

WELL NAME 07S 15E 12CBA4 SITE NUMBER 424955114390304

DRILLED OBSERVATION ARTESIAN WELL IN BANBURY FORMATION OF IDAHO GROUP, DEPTH 670 FT, 3/4-IN PIEZOMETER TUBE TO 670 FT, PERFORATED 665-670 FT, CONCRETE SEAL 645-650 FT, GRAVEL FILL 650-670 FT. LATITUDE 42°49'55", LONGITUDE 114°39'03". LSD 3,599.93 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN COUPLING, 1.34 FT ABOVE LSD (SINCE APR 09, 1982).

RECORDS AVAILABLE 1982 TO CURRENT YEAR.
HIGHEST WATER LEVEL 162.06 FEET BELOW LAND SURFACE DATUM OCT 15, 1986.
LOWEST WATER LEVEL 179.76 FEET BELOW LAND SURFACE DATUM MAY 20, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 22	166.88	DEC 16	168.00	FEB 10	169.87	APR 26	172.05	JUN 08	171.74	AUG 09	170.61
NOV 12	166.99	JAN 11	168.70	MAR 10	170.70	MAY 10	172.94	JUL 13	170.66	SEP 17	168.46

WELL NAME 07S 15E 12CBA5 SITE NUMBER 424955114390305

DRILLED OBSERVATION ARTESIAN WELL IN BANBURY FORMATION OF IDAHO GROUP, DEPTH 1,104 FT, 3/4-IN PIEZOMETER TUBE TO 1,101 FT, 1 1/4-IN SANDPOINT 1,101-1,104 FT, CONCRETE SEAL 1,073-1,078 FT, GRAVEL FILL 1,078-1,123 FT. LATITUDE 42°49'55", LONGITUDE 114°39'03". LSD 3,599.93 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN COUPLING, 1.19 FT ABOVE LSD (SINCE APR 09, 1982).

RECORDS AVAILABLE 1982 TO CURRENT YEAR.
HIGHEST WATER LEVEL 70.54 FEET BELOW LAND SURFACE DATUM NOV 20, 1986.
LOWEST WATER LEVEL 85.72 FEET BELOW LAND SURFACE DATUM JUN 11, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 22	74.99	DEC 16	75.35	FEB 10	76.17	MAY 10	79.18	JUL 13	83.10	SEP 17	76.60
NOV 12	74.73	JAN 11	75.40	MAR 10	79.23	JUN 08	79.11	AUG 09	79.00		

WELL NAME 08S 14E 12CBC1 SITE NUMBER 424439114461201

FORMERLY SITE NUMBER 424440114461301. DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 86 FT, CASED TO 7 FT. LATITUDE 42°44'39", LONGITUDE 114°46'12". LSD ABOUT 3,272 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE IN CONCRETE COVER NORTH SIDE, 1.00 FT BELOW LSD (SINCE APR 18, 1974).

RECORDS AVAILABLE 1974, 1980-1982, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 61.13 FEET BELOW LAND SURFACE DATUM OCT 15, 1986.
LOWEST WATER LEVEL 73.00 FEET BELOW LAND SURFACE DATUM MAY 20, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 23	67.48R	JAN 12	66.84	MAR 09	68.02	MAY 11	69.15	JUL 14	69.59	SEP 17	67.07

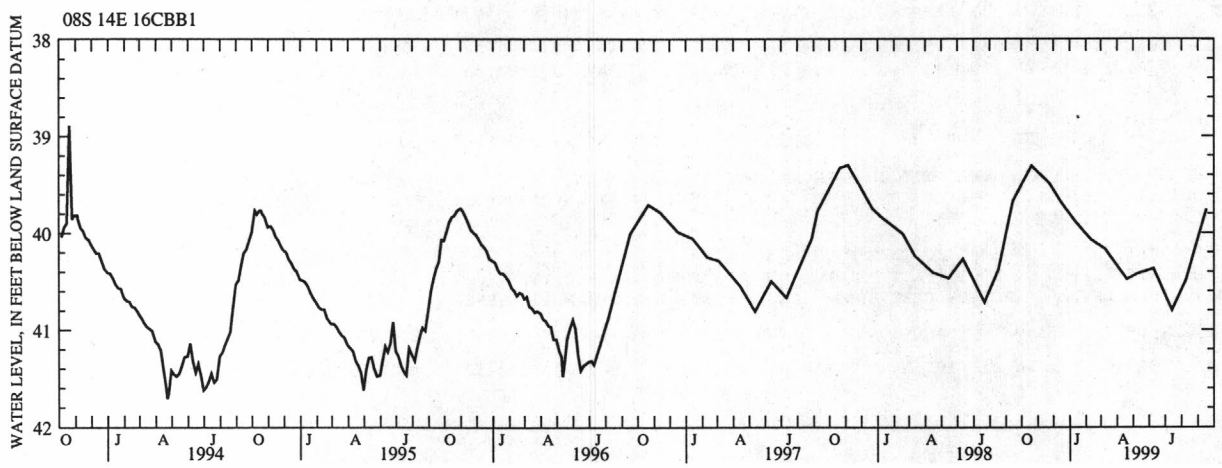
WELL NAME 08S 14E 16CBB1 SITE NUMBER 424353114494701

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 53 FT, 5-IN CASING TO 50 FT. LATITUDE 42°43'53", LONGITUDE 114°49'47". LSD 3,175.27 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 06, 1954 TO AUG 10, 1971. RECORDER INSTALLED JUL 19, 1977 TO JUL 10, 1996. MP NO. 3 EDGE OF CASING FLANGE WEST SIDE, 1.00 FT ABOVE LSD (SINCE SEP 11, 1957).

RECORDS AVAILABLE 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 36.50 FEET BELOW LAND SURFACE DATUM SEP 22, 1953.
LOWEST WATER LEVEL 42.18 FEET BELOW LAND SURFACE DATUM MAY 30, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 20	39.31	DEC 16	39.69	FEB 10	40.07	APR 19	40.48	JUN 09	40.37	AUG 09	40.49
NOV 23	39.49	JAN 12	39.89	MAR 09	40.17	MAY 11	40.42	JUL 14	40.80	SEP 17	39.76



WELL NAME 08S 15E 32CBB1 SITE NUMBER 424118114435501

DRILLED DOMESTIC WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM, DEPTH, AND CASING INFORMATION NOT AVAILABLE. LATITUDE 42°41'18", LONGITUDE 114°43'55". LSD ABOUT 3,308 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 1 1/2-IN ACCESS HOLE NORTH SIDE, 1.20 FT ABOVE LSD (SINCE AUG 09, 1985).

RECORDS AVAILABLE 1985-1986, 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 63.60 FEET BELOW LAND SURFACE DATUM OCT 15, 1986.
LOWEST WATER LEVEL 78.00 FEET BELOW LAND SURFACE DATUM MAY 12, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 20	68.46	DEC 16	69.78	FEB 10	71.59	APR 19	73.42	JUN 09	73.80	AUG 09	73.60
NOV 12	71.97R	JAN 12	70.74	MAR 09	72.22	MAY 11	73.80	JUL 14	74.54	SEP 17	72.97

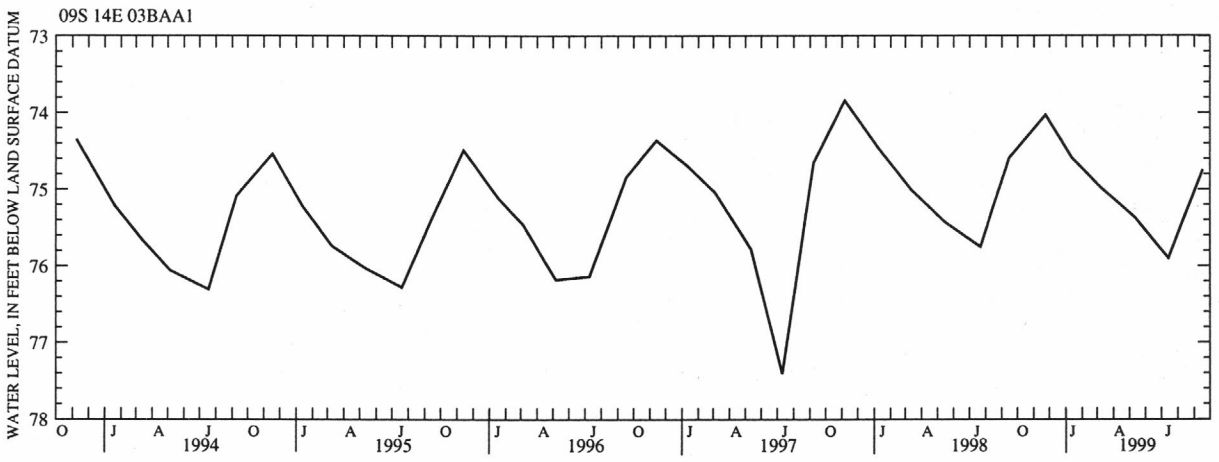
WELL NAME 09S 14E 03BAA1 SITE NUMBER 424053114480301

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 99 FT, CASED TO BEDROCK. LATITUDE 42°40'53", LONGITUDE 114°48'03". LSD 3,203.24 FT ABOVE SEA LEVEL. MAR 24, 1972, WELL HAD FILLED IN TO A DEPTH OF 93.5 FT. MP NO. 2 EDGE OF CASING, 0.70 FT ABOVE LSD (SINCE OCT 18, 1951).

RECORDS AVAILABLE 1929, 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 69.68 FEET BELOW LAND SURFACE DATUM OCT 16, 1956.
LOWEST WATER LEVEL 77.41 FEET BELOW LAND SURFACE DATUM JUL 11, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 23	74.03	JAN 12	74.59	MAR 09	74.99	MAY 11	75.37	JUL 14	75.90	SEP 17	74.75



JEFFERSON COUNTY

WELL NAME 08N 34E 11DCC1 SITE NUMBER 440151112252301

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 24 IN, DEPTH 110 FT, CASED TO 7 FT. LATITUDE 44°01'51", LONGITUDE 112°25'23". LSD ABOUT 4,870 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 0.50 FT ABOVE LSD (SINCE JUN 10, 1988).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL 82.49 FEET BELOW LAND SURFACE DATUM MAY 04, 1999.
LOWEST WATER LEVEL 96.83 FEET BELOW LAND SURFACE DATUM SEP 15, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	86.34	JAN 20	83.76	MAR 17	83.02	MAY 04	82.49	JUL 08	86.02	SEP 13	87.70

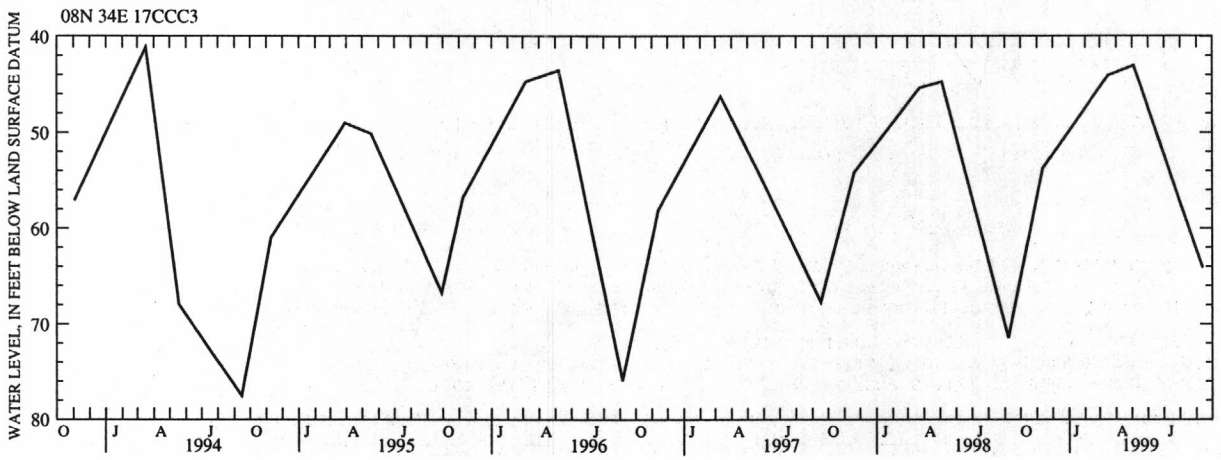
WELL NAME 08N 34E 17CCC3 SITE NUMBER 440058112293601

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 440 FT, CASED TO 510 FT, PERFORATED 340-350 FT. LATITUDE 44°00'58", LONGITUDE 112°29'36". LSD 4,808.92 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE EAST SIDE, 3.76 FT ABOVE LSD (SINCE FEB 10, 1970).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 38.77 FEET BELOW LAND SURFACE DATUM MAR 23, 1987.
LOWEST WATER LEVEL 77.53 FEET BELOW LAND SURFACE DATUM SEP 15, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	53.76	MAR 17	44.09	MAY 04	43.06	SEP 13	64.14



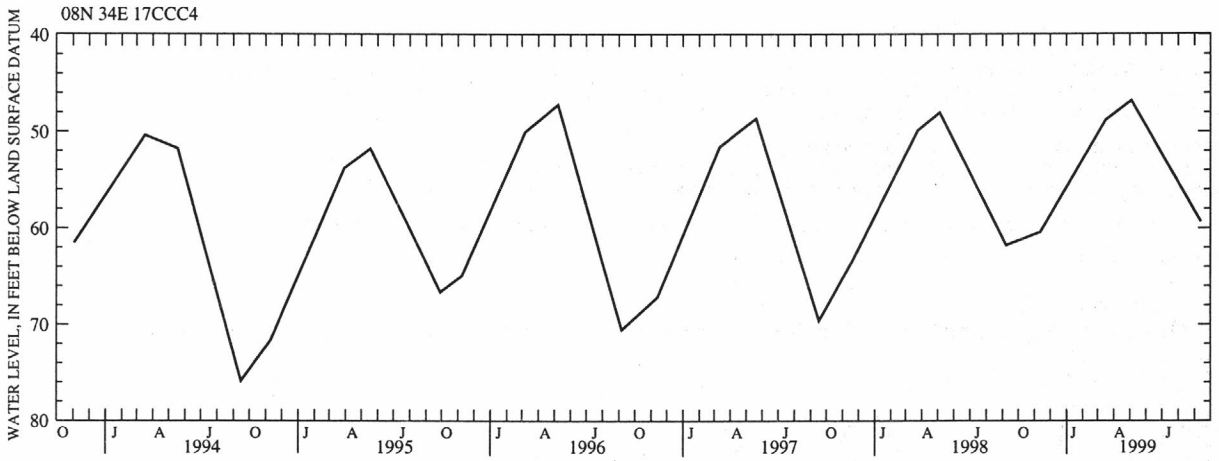
WELL NAME 08N 34E 17CCC4 SITE NUMBER 440058112293602

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 545 FT, 1-IN PIEZOMETER TUBE TO 519 FT, PERFORATED 511.5-516.5 FT, GRAVEL FILL 462-545 FT, CONCRETE SEAL 440-462 FT. LATITUDE 44°00'58", LONGITUDE 112°29'36". LSD 4,808.92 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 1-IN PIPE EAST SIDE, 3.43 FT ABOVE LSD (SINCE FEB 10, 1970).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 22.82 FEET BELOW LAND SURFACE DATUM DEC 02, 1969.
LOWEST WATER LEVEL 75.89 FEET BELOW LAND SURFACE DATUM SEP 15, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 60.39 MAR 17 48.83 MAY 04 46.81 SEP 13 59.35



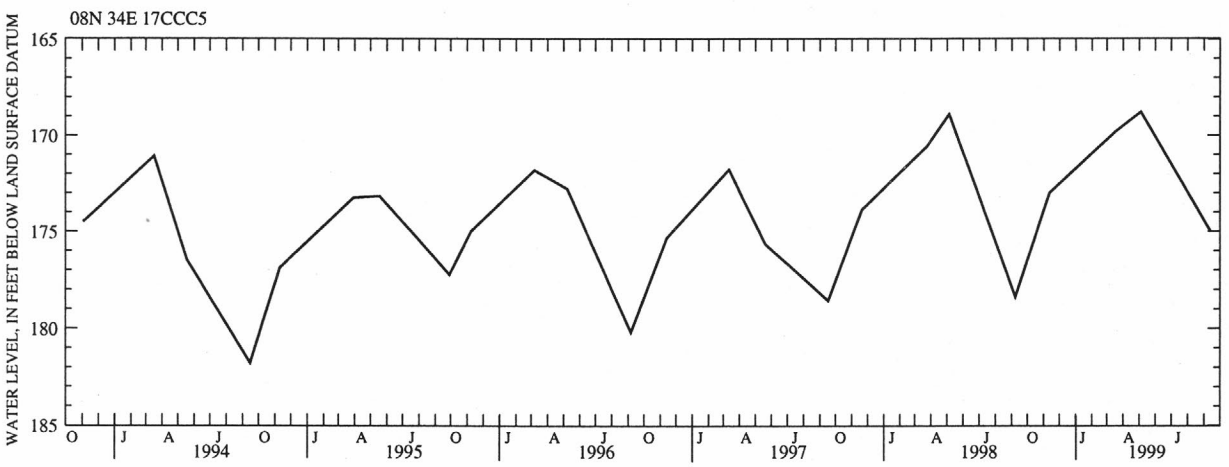
WELL NAME 08N 34E 17CCC5 SITE NUMBER 440058112293603

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 888 FT, 3/4-IN PIEZOMETER TUBE TO 610 FT, PERFORATED 602.5-607.5 FT, GRAVEL FILL 562-888 FT, CONCRETE SEAL 545-562 FT. LATITUDE 44°00'58", LONGITUDE 112°29'36". LSD 4,808.92 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE EAST SIDE, 3.27 FT ABOVE LSD (SINCE FEB 10, 1970).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 161.88 FEET BELOW LAND SURFACE DATUM MAR 23, 1987.
LOWEST WATER LEVEL 181.78 FEET BELOW LAND SURFACE DATUM SEP 15, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 172.98 MAR 17 169.81 MAY 04 168.79 SEP 13 174.98



WELL NAME 08N 34E 17CCC6 SITE NUMBER 440058112293604

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 1,006.5 FT, 3/4-IN PIEZOMETER TUBE TO 930 FT, PERFORATED 922.5-927.5 FT, CONCRETE SEAL 888-914 FT, GRAVEL FILL 914-1,006.5 FT. LATITUDE 44°00'58", LONGITUDE 112°29'36". LSD 4,808.92 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE EAST SIDE, 2.97 FT ABOVE LSD (SINCE FEB 10, 1970).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 216.68 FEET BELOW LAND SURFACE DATUM MAY 17, 1988.
LOWEST WATER LEVEL 230.88 FEET BELOW LAND SURFACE DATUM SEP 06, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 227.63 MAR 17 225.96 MAY 04 225.01 SEP 13 227.85

WELL NAME 08N 34E 17CCC7 SITE NUMBER 440058112293605

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 47.6 FT, CASED TO 47.5 FT, PERFORATED 40-47 FT. LATITUDE 44°00'58", LONGITUDE 112°29'36". LSD 4,808.92 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 0.90 FT ABOVE LSD (SINCE JUN 24, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 18.86 FEET BELOW LAND SURFACE DATUM MAY 10, 1985.
LOWEST WATER LEVEL 40.29 FEET BELOW LAND SURFACE DATUM SEP 23, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 30.15 MAR 17 26.59 MAY 04 25.27 SEP 13 29.99

WELL NAME 08N 34E 27CDD1 SITE NUMBER 435912112264801

DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 24 IN, DEPTH 110 FT, CASED 1.5 FT. LATITUDE 43°59'12", LONGITUDE 112°26'48". LSD ABOUT 4,805 FT ABOVE SEA LEVEL. SEP 20, 1988, WELL DEPTH SOUNDED AT 51.65 FT. SEP 15, 1994, WELL CLEANED TO A DEPTH OF 76.25 FT. MP NO. 1 EDGE OF CASING, 0.30 FT ABOVE LSD (SINCE JUN 10, 1988).

RECORDS AVAILABLE 1988 TO CURRENT YEAR.
HIGHEST WATER LEVEL 29.24 FEET BELOW LAND SURFACE DATUM MAY 04, 1999.
LOWEST WATER LEVEL 61.17 FEET BELOW LAND SURFACE DATUM SEP 15, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 37.14 JAN 20 32.15 MAR 17 30.44 MAY 04 29.24 JUL 08 41.37 SEP 13 40.86

WELL NAME 08N 36E 03DCD1 SITE NUMBER 440239112121101

DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 18 IN, DEPTH 81.44 FT, 18-IN CASING INFORMATION NOT AVAILABLE. LATITUDE 44°02'39", LONGITUDE 112°12'11". LSD ABOUT 4,845 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF CASING WEST SIDE, 1.73 FT ABOVE LSD (SINCE SEP 25, 1996).

RECORDS AVAILABLE 1988 TO CURRENT YEAR.
HIGHEST WATER LEVEL 51.42 FEET BELOW LAND SURFACE DATUM MAY 03, 1999.
LOWEST WATER LEVEL 67.55 FEET BELOW LAND SURFACE DATUM JUL 20, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 13 53.17 JAN 19 52.10 MAY 03 51.42 JUL 07 52.42 SEP 15 53.38

WELL NAME 08N 36E 10BDD1 SITE NUMBER 440212112122501

DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 10 IN, DEPTH 40.89 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 44°02'12", LONGITUDE 112°12'25". LSD ABOUT 4,837 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 2.20 FT ABOVE LSD (SINCE JUN 24, 1988).

RECORDS AVAILABLE 1988 TO CURRENT YEAR.
HIGHEST WATER LEVEL 28.19 FEET BELOW LAND SURFACE DATUM JUN 24, 1988.
LOWEST WATER LEVEL 37.59 FEET BELOW LAND SURFACE DATUM JAN 21, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 13 37.53 JAN 19 37.35 MAR 16 37.50 MAY 03 37.56 JUL 07 37.54 SEP 15 37.57

WELL NAME 08N 36E 21DCD1 SITE NUMBER 440002112131801

DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 16 IN, DEPTH 194.37 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 44°00'02", LONGITUDE 112°13'18". LSD ABOUT 4,810 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF 5/16-IN ACCESS HOLE NORTH SIDE, 2.37 FT ABOVE LSD (SINCE SEP 30, 1992).

RECORDS AVAILABLE 1988 TO CURRENT YEAR.
HIGHEST WATER LEVEL 21.40 FEET BELOW LAND SURFACE DATUM JUN 24, 1988.
LOWEST WATER LEVEL 34.37 FEET BELOW LAND SURFACE DATUM JUL 20, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 13 23.50 JAN 19 22.45 MAR 16 22.17 MAY 03 21.75 JUL 07 22.88 SEP 15 23.80

WELL NAME 07N 33E 34AAA1 SITE NUMBER 435357112332001

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 8 IN, DEPTH 61 FT, CASED TO 61 FT, PERFORATED INTERVAL NOT AVAILABLE. LATITUDE 43°53'57", LONGITUDE 112°33'20". LSD ABOUT 4,784 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.20 FT ABOVE LSD (SINCE MAR 01, 1988).

RECORDS AVAILABLE 1988 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.64 FEET BELOW LAND SURFACE DATUM SEP 25, 1991.
LOWEST WATER LEVEL 16.79 FEET BELOW LAND SURFACE DATUM MAR 12, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 17 16.11 SEP 13 5.45

WELL NAME 07N 34E 04CDC1 SITE NUMBER 435728112281101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 57.3 FT, CASED TO 41 FT. LATITUDE 43°57'28", LONGITUDE 112°28'11". LSD 4,791.76 FT ABOVE SEA LEVEL. OCT 04, 1972, WELL HAD FILLED IN TO A DEPTH OF 51.2 FT. RECORDER INSTALLED FEB 13, 1957 TO AUG 19, 1971. MP NO. 2 TOP OF ACCESS HOLE, 2.02 FT ABOVE LSD (SINCE SEP 10, 1975).

RECORDS AVAILABLE 1956 TO CURRENT YEAR.
HIGHEST WATER LEVEL 2.09 FEET BELOW LAND SURFACE DATUM MAR 21, 1985.
LOWEST WATER LEVEL 42.12 FEET BELOW LAND SURFACE DATUM JUL 21, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 16.48 JAN 20 10.87 MAR 17 8.90 MAY 05 7.99 JUL 08 22.42 SEP 15 22.81

WELL NAME 07N 34E 24BBA1 SITE NUMBER 435540112243901

DRILLED UNUSED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 30 IN, DEPTH 39.55 FT, NO CASING USED. LATITUDE 43°55'40", LONGITUDE 112°24'39". LSD ABOUT 4,790 FT ABOVE SEA LEVEL. SEP 08, 1998, CASING INSTALLED, WELL DEPTH SOUNDED AT 112 FT. MP NO. 4 TOP OF ACCESS HOLE, 2.00 FT ABOVE LSD (SINCE SEP 08, 1998).

RECORDS AVAILABLE 1988 TO CURRENT YEAR.
HIGHEST WATER LEVEL 9.46 FEET BELOW LAND SURFACE DATUM MAY 05, 1999.
LOWEST WATER LEVEL WELL DRY JUL 20, SEP 15, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 18.69 JAN 20 13.43 MAR 17 10.93 MAY 05 9.46 JUL 08 13.63 SEP 15 21.66

WELL NAME 07N 35E 13AAD1 SITE NUMBER 435626112164301

FORMERLY SITE NUMBER 435615112164201. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 515 FT, 1-IN PIEZOMETER TUBE TO 330 FT, PERFORATED 322.5-327.5 FT, GRAVEL FILL 0-515 FT. LATITUDE 43°56'26", LONGITUDE 112°16'43". LSD 4,789.50 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF 1-IN PIPE SOUTHWEST SIDE, 1.24 FT ABOVE LSD (SINCE JUN 28, 1980).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL +1.25 FEET ABOVE LAND SURFACE DATUM OCT 22, 1969.
LOWEST WATER LEVEL 16.56 FEET BELOW LAND SURFACE DATUM JUL 20, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17 6.81 JAN 14 6.60 MAR 16 6.14 MAY 13 5.69 JUL 23 9.06 SEP 15 7.74

WELL NAME 07N 35E 13AAD2 SITE NUMBER 435626112164302

FORMERLY SITE NUMBER 435615112164202. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 760 FT, 3/4-IN PIEZOMETER TUBE TO 645 FT, PERFORATED 637.5-642.5 FT, GRAVEL FILL 592-760 FT, CONCRETE SEAL 515-592 FT. LATITUDE 43°56'26", LONGITUDE 112°16'43". LSD 4,789.50 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF 3/4-IN PIPE SOUTHWEST SIDE, 1.31 FT ABOVE LSD (SINCE JUN 28, 1980).

RECORDS AVAILABLE 1969-1976, 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL +.82 FEET ABOVE LAND SURFACE DATUM OCT 22, 1969.
LOWEST WATER LEVEL 13.71 FEET BELOW LAND SURFACE DATUM JAN 20, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17 8.24 JAN 14 8.04 MAR 16 7.54 MAY 13 7.04 JUL 23 6.68 SEP 15 7.29

WELL NAME 07N 35E 13AAD4 SITE NUMBER 435626112164304

FORMERLY SITE NUMBER 435615112164204. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 1,000.7 FT, 3/4-IN PIEZOMETER TUBE TO 870 FT, PERFORATED 862.5-867.5 FT, CONCRETE SEAL 827-840 FT, GRAVEL FILL 840-1,000.7 FT. LATITUDE 43°56'26", LONGITUDE 112°16'43". LSD 4,789.50 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF 3/4-IN PIPE SOUTHWEST SIDE, 2.00 FT ABOVE LSD (SINCE JUN 28, 1980).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL +2.96 FEET ABOVE LAND SURFACE DATUM DEC 01, 1972.
LOWEST WATER LEVEL 9.77 FEET BELOW LAND SURFACE DATUM SEP 13, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17 1.70 JAN 14 1.50 MAR 16 1.18 MAY 13 1.09 JUL 23 2.57 SEP 15 2.30

WELL NAME 07N 35E 13CCC2 SITE NUMBER 435543112174401

DRILLED IRRIGATION WATER-TABLE IN SNAKE RIVER GROUP, DIAM 26 IN, DEPTH 29 FT, NO CASING. LATITUDE 43°56'26", LONGITUDE 112°16'43". LSD 4,793.72 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF STEEL PLATE, 6.42 FT BELOW LSD (SINCE JUL 09, 1991).

RECORDS AVAILABLE 1957-1959, 1968, 1980, 1989, 1991 TO CURRENT YEAR.
HIGHEST WATER LEVEL 7.97 FEET BELOW LAND SURFACE DATUM MAY 05, 1999.
LOWEST WATER LEVEL 26.39 FEET BELOW LAND SURFACE DATUM JUL 21, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	9.65	JAN 20	8.77	MAR 17	8.67	MAY 05	7.97	JUL 08	8.27	SEP 15	10.35

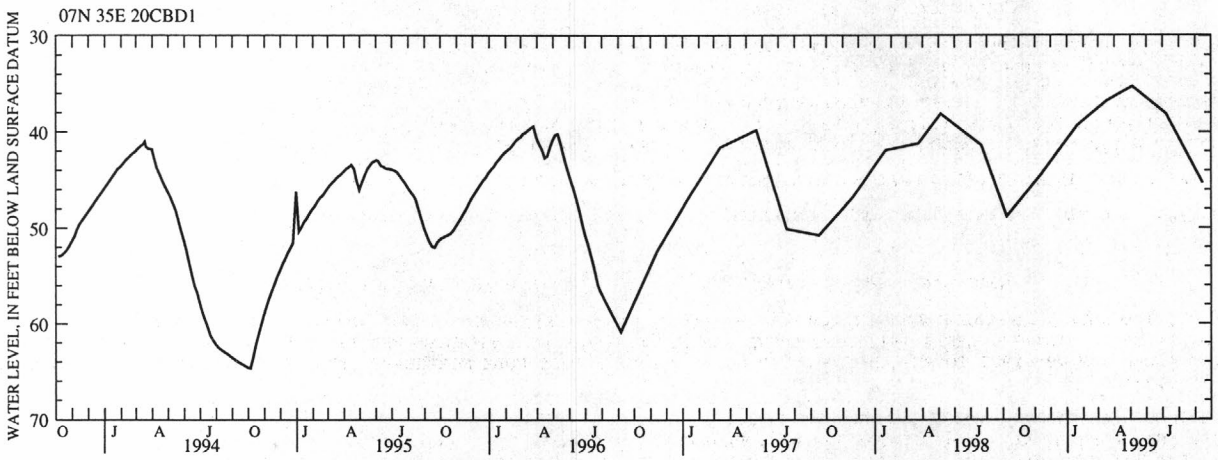
WELL NAME 07N 35E 20CBD1 SITE NUMBER 435504112222301

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, DEPTH 58.1 FT, CASED TO 45 FT. LATITUDE 43°55'04", LONGITUDE 112°22'23". LSD 4,818.15 FT ABOVE SEA LEVEL. MAY 15, 1967, WELL DEEPENED AND RECASED, DIAM 12 IN, DEPTH 65.9 FT, CASED TO 66 FT, PERFORATED 55-65 FT. RECORDER INSTALLED SEP 05, 1955 TO JUL 30, 1996. LOWEST WATER LEVELS RECORDED WERE DRY BEFORE WELL WAS DEEPENED. MP NO. 4 EDGE OF CASING NORTHEAST SIDE, 2.00 FT ABOVE LSD (SINCE MAY 16, 1967).

RECORDS AVAILABLE 1954 TO CURRENT YEAR.
HIGHEST WATER LEVEL 29.23 FEET BELOW LAND SURFACE DATUM MAY 03, 1985.
LOWEST WATER LEVEL 64.69 FEET BELOW LAND SURFACE DATUM OCT 05, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	44.48	JAN 20	39.34	MAR 17	36.78	MAY 05	35.28	JUL 08	38.13	SEP 15	45.32



WELL NAME 07N 35E 26CDD1 SITE NUMBER 435359112182501

DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 6 IN, DEPTH 32.63 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°53'59", LONGITUDE 112°18'25". LSD ABOUT 4,790 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE NORTH SIDE, 1.53 FT ABOVE LSD (SINCE JUL 10, 1988).

RECORDS AVAILABLE 1988 TO CURRENT YEAR.
HIGHEST WATER LEVEL 6.14 FEET BELOW LAND SURFACE DATUM MAY 03, 1999.
LOWEST WATER LEVEL 25.71 FEET BELOW LAND SURFACE DATUM SEP 15, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	8.79	JAN 19	7.85	MAR 17	7.40	MAY 03	6.14	JUL 07	7.45	SEP 15	6.39

WELL NAME 07N 36E 09BBB1 SITE NUMBER 435728112141301

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DIAM 13.5 TO 8 IN, DEPTH 200 FT, 8-IN CASING TO 32 FT. LATITUDE 43°57'28", LONGITUDE 112°14'13". LSD ABOUT 4,795 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 2.70 FT ABOVE LSD (SINCE JUL 10, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 7.92 FEET BELOW LAND SURFACE DATUM MAY 03, 1999.
LOWEST WATER LEVEL 17.89 FEET BELOW LAND SURFACE DATUM JUL 20, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 13	9.61	JAN 19	8.64	MAR 16	8.42	MAY 03	7.92	JUL 07	9.18	SEP 15	10.00

WELL NAME 07N 36E 09BBB2 SITE NUMBER 435728112141302

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 260 FT, 2-IN PIEZOMETER TUBE TO 260 FT, PERFORATED 240-250 FT, GRAVEL PACKED 230-260 FT, CONCRETE SEAL 200-230 FT. LATITUDE 43°57'28", LONGITUDE 112°14'13". LSD ABOUT 4,795 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 2.70 FT ABOVE LSD (SINCE JUL 10, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 7.90 FEET BELOW LAND SURFACE DATUM MAY 03, 1999.
LOWEST WATER LEVEL 17.70 FEET BELOW LAND SURFACE DATUM SEP 13, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 13	9.63	JAN 19	8.66	MAR 16	8.42	MAY 03	7.90	JUL 07	10.19	SEP 15	10.00

WELL NAME 07N 36E 09BBB3 SITE NUMBER 435728112141303

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 498 FT, 2-IN PIEZOMETER TUBE TO 312 FT, PERFORATED 302-312 FT, GRAVEL PACKED 340-498 FT, CONCRETE SEAL 260-270 FT. LATITUDE 43°57'28", LONGITUDE 112°14'13". LSD ABOUT 4,795 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 2.70 FT ABOVE LSD (SINCE JUL 10, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 7.90 FEET BELOW LAND SURFACE DATUM MAY 03, 1999.
LOWEST WATER LEVEL 17.69 FEET BELOW LAND SURFACE DATUM SEP 13, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 13	9.60	JAN 19	8.67	MAR 16	8.40	MAY 03	7.90	JUL 07	9.15	SEP 15	9.94

WELL NAME 07N 36E 14CBA1 SITE NUMBER 435605112113601

POND THAT REFLECTS PERCHED WATER LEVEL. LATITUDE 43°56'05", LONGITUDE 112°11'36". LSD ABOUT 4,789 FT ABOVE SEA LEVEL. MP NO. 1 HEAD OF NAIL IN 6-IN X 9-IN TIMBER AT LSD (SINCE JUN 10, 1988).

RECORDS AVAILABLE 1988 TO CURRENT YEAR.
HIGHEST WATER LEVEL 4.33 FEET BELOW LAND SURFACE DATUM JUN 10, 1988.
LOWEST WATER LEVEL POND DRY DURING PORTIONS OF YEARS 1992-1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 13	6.71	JAN 19	5.82	MAR 16	5.52	MAY 03	5.14	JUL 07	6.51	SEP 15	7.01

WELL NAME 07N 36E 22ABD4 SITE NUMBER 435528112121201

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 24.5 FT, CASED TO 18 FT. LATITUDE 43°55'28", LONGITUDE 112°12'12". LSD 4,791.73 FT ABOVE SEA LEVEL. RECORDER INSTALLED FEB 12, 1957 TO AUG 19, 1971. RECORDER INSTALLED JUN 09, 1977 TO SEP 15, 1977. MP NO. 4 TOP OF ACCESS HOLE NORTHEAST SIDE, 2.02 FT ABOVE LSD (SINCE DEC 13, 1977).

RECORDS AVAILABLE 1955 TO CURRENT YEAR.
HIGHEST WATER LEVEL 1.98 FEET BELOW LAND SURFACE DATUM MAR 21, 1985.
LOWEST WATER LEVEL 17.33 FEET BELOW LAND SURFACE DATUM SEP 18, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 13	9.04	JAN 19	8.17	MAR 16	7.80	MAY 03	7.48	JUL 07	8.67	SEP 16	9.35

WELL NAME 07N 37E 06BCC1 SITE NUMBER 435755112092001

DRILLED STOCK WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH AND CASING INFORMATION NOT AVAILABLE. LATITUDE 43°57'55", LONGITUDE 112°09'20". LSD ABOUT 4,930 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTH SIDE, UNDER PUMPBASE, 1.50 FT ABOVE LSD (SINCE APR 12, 1989).

RECORDS AVAILABLE 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 142.30 FEET BELOW LAND SURFACE DATUM FEB 18, 1993.
LOWEST WATER LEVEL 158.53 FEET BELOW LAND SURFACE DATUM JUL 20, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 13	146.98	JAN 19	145.68	MAR 16	145.80	MAY 03	145.48	JUL 07	146.78	SEP 15	147.37

WELL NAME 07N 37E 28CCD1 SITE NUMBER 435402112065001

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 135 FT, CASED TO 103 FT. LATITUDE 43°54'02", LONGITUDE 112°06'50". LSD 4,848.92 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF 1 1/4-IN PIPE COUPLING, 0.70 FT ABOVE LSD (SINCE JUN 13, 1978).

RECORDS AVAILABLE 1960 TO CURRENT YEAR.
HIGHEST WATER LEVEL 59.98 FEET BELOW LAND SURFACE DATUM MAR 21, 1985.
LOWEST WATER LEVEL 72.92 FEET BELOW LAND SURFACE DATUM SEP 13, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 16	65.15	SEP 16	66.41

WELL NAME 06N 32E 11ABA1 SITE NUMBER 435212112394001

FORMERLY SITE NUMBER 435215112394201. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 266.5 FT, CASED TO 266 FT, PERFORATED 232-266 FT. LATITUDE 43°52'12", LONGITUDE 112°39'40". LSD 4,789.79 FT ABOVE SEA LEVEL. RECORDER INSTALLED NOV 22, 1952 TO OCT 13, 1954. MP NO. 3 EDGE OF 1-IN COUPLING, 2.10 FT ABOVE LSD (SINCE JUL 31, 1990).

RECORDS AVAILABLE 1952 TO CURRENT YEAR.
HIGHEST WATER LEVEL 200.76 FEET BELOW LAND SURFACE DATUM APR 28, 1988.
LOWEST WATER LEVEL 214.75 FEET BELOW LAND SURFACE DATUM OCT 15, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 15	212.19	JAN 05	211.26	APR 26	209.59	JUL 19	210.76

WELL NAME 06N 32E 26CDB1 SITE NUMBER 434856112400001

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 321.8 FT, CASED TO 321.8 FT, PERFORATED 236.6-313.8 FT, GRAVEL PACKED 207-318.8 FT, CONCRETE SEAL 201-207 FT, 318.8-321.8 FT. LATITUDE 43°48'56", LONGITUDE 112°40'00". LSD 4,786.14 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN COUPLING, 2.18 FT ABOVE LSD (SINCE APR 12, 1994).

RECORDS AVAILABLE 1956 TO CURRENT YEAR.
HIGHEST WATER LEVEL 214.72 FEET BELOW LAND SURFACE DATUM MAY 01, 1987.
LOWEST WATER LEVEL 227.20 FEET BELOW LAND SURFACE DATUM OCT 10, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 15	224.48	JAN 05	223.84	APR 21	222.49	JUL 19	222.80

WELL NAME 06N 33E 26DDB1 SITE NUMBER 434851112321801

FORMERLY SITE NUMBER 434854112322101. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 312 FT, CASED TO 312 FT, PERFORATED 250-260 FT, 298-308 FT. LATITUDE 43°48'51", LONGITUDE 112°32'18". LSD 4,783.90 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUN 13, 1953 TO APR 23, 1956. RECORDER INSTALLED JUN 02, 1981 TO AUG 27, 1990. MP NO. 3 EDGE OF 1 1/2-IN COUPLING, 2.26 FT ABOVE LSD (SINCE AUG 27, 1990).

RECORDS AVAILABLE 1952 TO CURRENT YEAR.
HIGHEST WATER LEVEL 218.35 FEET BELOW LAND SURFACE DATUM MAR 26, 1988.
LOWEST WATER LEVEL 229.97 FEET BELOW LAND SURFACE DATUM AUG 26, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 14	227.72	DEC 03	226.54	FEB 16	225.62	APR 14	225.56	JUN 02	225.36	AUG 10	227.56
NOV 04	227.39	JAN 05	226.24	MAR 23	225.24	MAY 13	224.87	JUL 13	226.67	SEP 15	227.44

WELL NAME 06N 35E 21AAB1 SITE NUMBER 435028112202601

DRILLED IRRIGATION ARTESIAN WELL IN SNAKE RIVER GROUP, DIAM 16 TO 14 IN, DEPTH 275.5 FT, 16-IN CASING TO 95 FT, 14-IN CASING 135-205 FT. LATITUDE 43°50'28", LONGITUDE 112°20'26". LSD 4,784.50 FT ABOVE SEA LEVEL. MAY 15, 1967, WELL WAS RECONDITIONED. MP NO. 5 TOP OF ACCESS HOLE INSIDE PUMPBASE NORTH SIDE, 1.73 FT ABOVE LSD (SINCE JUL 14, 1967).

RECORDS AVAILABLE 1949 TO CURRENT YEAR.
HIGHEST WATER LEVEL 90.39 FEET BELOW LAND SURFACE DATUM SEP 10, 1986.
LOWEST WATER LEVEL 113.83 FEET BELOW LAND SURFACE DATUM JUL 23, 1973.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	95.02	JAN 20	98.12	MAR 16	100.08	MAY 11	102.69	JUL 07	120.69P	SEP 15	96.21

WELL NAME 06N 35E 27DDA1 SITE NUMBER 434857112185801

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, DEPTH 260 FT, CASED TO 8 FT. LATITUDE 43°48'57", LONGITUDE 112°18'58". LSD 4,798.23 FT ABOVE SEA LEVEL. MP NO. 4 TOP OF 1-IN AIRLINE HOLE IN PUMPBASE WEST SIDE, 1.00 FT ABOVE LSD (SINCE SEP 16, 1963).

RECORDS AVAILABLE 1957 TO CURRENT YEAR.
HIGHEST WATER LEVEL 230.13 FEET BELOW LAND SURFACE DATUM MAR 21, 1973.
LOWEST WATER LEVEL WELL DRY SEP 16, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 17	236.10	SEP 15	241.30

WELL NAME 06N 35E 32DDD1 SITE NUMBER 434756112212101

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 290 FT, CASED TO 165 FT. LATITUDE 43°47'56", LONGITUDE 112°21'21". LSD 4,789.00 FT ABOVE SEA LEVEL. MP NO. 5 TOP OF YELLOW PAINTED NAIL IN 2-IN X 4-IN ROOF JOIST, 3.04 FT ABOVE LSD (SINCE NOV 20, 1997).

RECORDS AVAILABLE 1955 TO CURRENT YEAR.
HIGHEST WATER LEVEL 239.36 FEET BELOW LAND SURFACE DATUM DEC 09, 1986.
LOWEST WATER LEVEL 259.76 FEET BELOW LAND SURFACE DATUM SEP 15, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	253.95	JAN 20	244.95	MAR 17	250.68	MAY 05	246.10	JUL 07	250.95	SEP 15	259.76

WELL NAME 06N 36E 11ABA1 SITE NUMBER 435208112105101

FORMERLY SITE NUMBER 435208112105501. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 245 FT, 3/4-IN PIEZOMETER TUBE TO 126 FT, PERFORATED 118.5-123.5 FT, GRAVEL FILL 0-245 FT. LATITUDE 43°52'08", LONGITUDE 112°10'51". LSD 4,817.90 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 3/4-IN PIPE COUPLING, 2.00 FT ABOVE LSD (SINCE MAY 20, 1982).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 68.50 FEET BELOW LAND SURFACE DATUM JUL 10, 1975.
LOWEST WATER LEVEL 78.01 FEET BELOW LAND SURFACE DATUM JUL 19, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17 72.84 JAN 14 72.78 MAR 16 72.47 MAY 13 O

WELL NAME 06N 36E 11ABA3 SITE NUMBER 435208112105103

FORMERLY SITE NUMBER 435208112105503. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 915 FT, 3/4-IN PIEZOMETER TUBE TO 661 FT, PERFORATED 653.5-658.5 FT, GRAVEL FILL 630-915 FT, CONCRETE SEAL 615-630 FT. LATITUDE 43°52'08", LONGITUDE 112°10'51". LSD 4,817.90 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 3/4-IN PIPE COUPLING, 1.70 FT ABOVE LSD (SINCE OCT 24, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 32.18 FEET BELOW LAND SURFACE DATUM JAN 23, 1985.
LOWEST WATER LEVEL 46.08 FEET BELOW LAND SURFACE DATUM JUL 19, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17 36.38 JAN 14 37.85 MAR 16 37.42 MAY 13 37.19 JUL 23 39.60 SEP 15 38.68

WELL NAME 06N 36E 11ABA4 SITE NUMBER 435208112105104

FORMERLY SITE NUMBER 435208112105504. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 1,002.2 FT, 3/4-IN PIEZOMETER TUBE TO 971 FT, PERFORATED 962.5-967.5 FT, CONCRETE SEAL 915-927 FT, GRAVEL FILL 927-1002.2 FT. LATITUDE 43°52'08", LONGITUDE 112°10'51". LSD 4,817.90 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 3/4-IN PIPE COUPLING, 1.62 FT ABOVE LSD (SINCE OCT 24, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 14.10 FEET BELOW LAND SURFACE DATUM NOV 15, 1969.
LOWEST WATER LEVEL 62.65 FEET BELOW LAND SURFACE DATUM JUL 19, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17 54.06 JAN 14 54.47 MAR 16 54.08 MAY 13 53.92 JUL 23 55.86 SEP 15 57.05

WELL NAME 06N 37E 29ACA1 SITE NUMBER 434922112072201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 62 FT, CASED TO 21 FT. LATITUDE 43°49'22", LONGITUDE 112°07'22". LSD 4,823.62 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 TOP OF ACCESS HOLE EAST SIDE, 0.60 FT ABOVE LSD (SINCE JUN 10, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 41.30 FEET BELOW LAND SURFACE DATUM MAY 09, 1985.
LOWEST WATER LEVEL WELL DRY SEP 14, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17 47.30 JAN 14 45.95 MAR 16 45.18 MAY 13 44.99 JUL 23 45.18 SEP 15 45.72

WELL NAME 06N 37E 29ACA2 SITE NUMBER 434922112072202

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12 IN, DEPTH 175 FT, CASED TO 151.5 FT. LATITUDE 43°49'22", LONGITUDE 112°07'22". LSD 4,823.62 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 TOP OF ACCESS HOLE NORTHEAST SIDE, 1.00 FT ABOVE LSD (SINCE JAN 10, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 44.96 FEET BELOW LAND SURFACE DATUM MAY 09, 1985.
LOWEST WATER LEVEL 54.07 FEET BELOW LAND SURFACE DATUM NOV 08, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17 49.77 JAN 14 49.74 MAR 16 49.22 MAY 13 49.04 JUL 23 49.30 SEP 15 49.84

WELL NAME 06N 37E 29ACA4 SITE NUMBER 434922112072204

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 573 FT, CASED TO 505 FT. LATITUDE 43°49'22", LONGITUDE 112°01'38". LSD 4,823.62 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUN 18, 1969 TO MAY 21, 1982. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING NORTHEAST SIDE, 1.00 FT ABOVE LSD (SINCE JAN 10, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 35.82 FEET BELOW LAND SURFACE DATUM JAN 22, 1985.
LOWEST WATER LEVEL 49.39 FEET BELOW LAND SURFACE DATUM JUL 18, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17 41.65 JAN 14 41.50 MAR 16 41.14 MAY 13 40.99 JUL 23 43.02 SEP 15 42.26

WELL NAME 06N 38E 30BAD2 SITE NUMBER 434924112013801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 308 FT, CASED TO 308 FT, PERFORATED 260-270 FT. LATITUDE 43°49'24", LONGITUDE 112°01'38". LSD 4,874.35 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 3/4-IN PIPE, 0.98 FT ABOVE LSD (SINCE AUG 28, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 88.15 FEET BELOW LAND SURFACE DATUM SEP 28, 1976.
LOWEST WATER LEVEL 96.75 FEET BELOW LAND SURFACE DATUM SEP 12, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 16 92.20 SEP 16 92.81

WELL NAME 06N 38E 30BAD3 SITE NUMBER 434924112013802

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 543.5 FT, 3/4-IN PIEZOMETER TUBE TO 450 FT, PERFORATED 442.5-447.5 FT, GRAVEL FILL 430-543.5 FT, CONCRETE SEAL 392-430 FT. LATITUDE 43°49'24", LONGITUDE 112°01'38". LSD 4,874.35 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF 3/4-IN PIPE, 0.76 FT ABOVE LSD (SINCE JUL 07, 1978).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 82.50 FEET BELOW LAND SURFACE DATUM SEP 26, 1984.
LOWEST WATER LEVEL 94.56 FEET BELOW LAND SURFACE DATUM SEP 12, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 16 87.82 SEP 16 88.22

WELL NAME 06N 38E 30BAD4 SITE NUMBER 434924112013803

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 638 FT, 3/4-IN PIEZOMETER TUBE TO 595 FT, PERFORATED 587.5-592.5 FT, CONCRETE SEAL 543.5-575 FT, GRAVEL FILL 575-600 FT, SAND 600-638 FT. LATITUDE 43°49'24", LONGITUDE 112°01'38". LSD 4,874.35 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 3/4-IN PIPE, 1.44 FT ABOVE LSD (SINCE AUG 28, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 65.71 FEET BELOW LAND SURFACE DATUM AUG 28, 1967.
LOWEST WATER LEVEL 92.65 FEET BELOW LAND SURFACE DATUM MAR 06, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 16 92.01 SEP 16 91.88

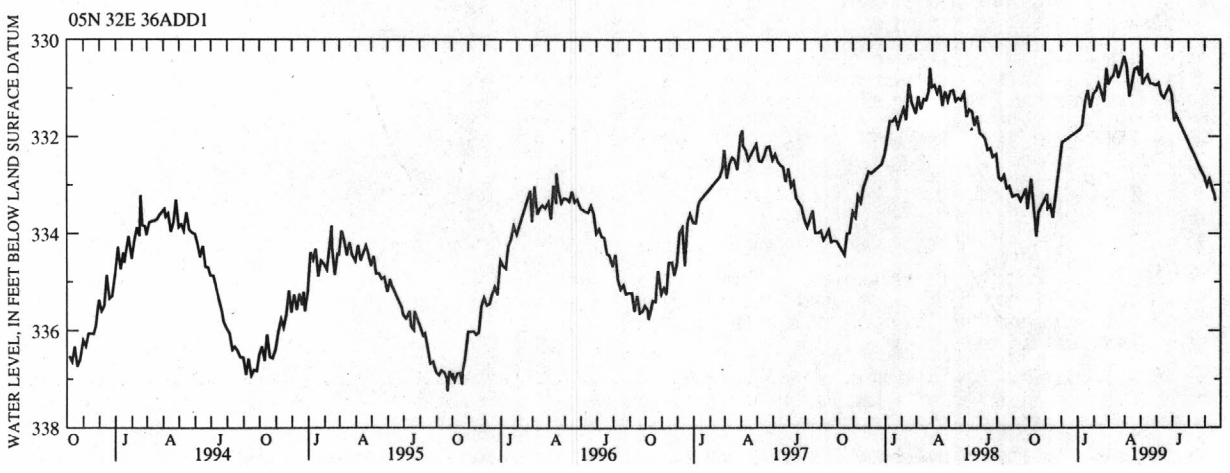
WELL NAME 05N 32E 36ADD1 SITE NUMBER 434307112382601

FORMERLY SITE NUMBER 434311112383001. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 405.5 FT, 6-IN CASING TO 357 FT, 5-IN CASING 351-405 FT, PERFORATED 360-400 FT. LATITUDE 43°43'07", LONGITUDE 112°38'26". LSD 4,838.70 FT ABOVE SEA LEVEL. RECORDER INSTALLED NOV 15, 1952 TO OCT 14, 1954. RECORDER INSTALLED MAY 10, 1962. MP NO. 2 EDGE OF 6-IN CASING NORTHEAST SIDE, 1.00 FT ABOVE LSD (SINCE JAN 26, 1961).

RECORDS AVAILABLE 1952 TO CURRENT YEAR.
HIGHEST WATER LEVEL 324.56 FEET BELOW LAND SURFACE DATUM MAR 02, 1974.
LOWEST WATER LEVEL 337.25 FEET BELOW LAND SURFACE DATUM SEP 21, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 05	332.88	JAN 05	331.86	FEB 20	331.28	APR 05	330.55	MAY 20	330.90	JUL 06	331.50
15	334.06	10	331.78	25	330.59	10	331.17	25	330.91	AUG 24	332.69
15	334.04	15	331.30	28	330.92	20	330.61	31	330.94	25	332.70
19	333.57	20	331.04	MAR 05	330.80	25	330.57	JUN 05	330.89	31	332.83
NOV 04	333.20	25	331.40	10	330.74	30	330.74	10	331.13	SEP 05	333.02
05	333.49	31	331.11	15	330.51	MAY 03	330.22	15	331.20	10	332.88
10	333.42	FEB 05	331.05	20	330.78	05	330.92	25	330.97	15	333.07
15	333.67	10	330.91	25	330.60	10	330.81	30	331.13	20	333.24
DEC 03	332.12	15	331.07	31	330.34	15	330.73	JUL 05	331.69	21	333.32



WELL NAME 05N 33E 13BDC1 SITE NUMBER 434601112315401

FORMERLY SITE NUMBER 434604112315701. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 360 FT, CASED TO 360 FT, PERFORATED 276-290 FT, 300-317 FT. LATITUDE 43°46'01", LONGITUDE 112°31'54". LSD 4,793.87 FT ABOVE SEA LEVEL. MAY 1953, WELL WAS DEEPENED TO A DEPTH OF 405 FT. DEC 05, 1969, WELL WAS PLUGGED BACK WITH CONCRETE SEAL TO 326 FT. MP NO. 3 EDGE OF CASING, 1.80 FT ABOVE LSD (SINCE MAY 14, 1953).

RECORDS AVAILABLE 1953 TO CURRENT YEAR.
HIGHEST WATER LEVEL 259.39 FEET BELOW LAND SURFACE DATUM MAY 22, 1985.
LOWEST WATER LEVEL 275.18 FEET BELOW LAND SURFACE DATUM AUG 25, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 03 268.00 MAR 23 266.81 JUN 02 267.96 SEP 15 271.00

WELL NAME 05N 33E 13BDC2 SITE NUMBER 434601112315402

FORMERLY SITE NUMBER 434604112315702. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 493 FT, 3/4-IN PIEZOMETER TUBE TO 400 FT, PERFORATED 392.5-397.5 FT, GRAVEL FILL 370-493 FT, CONCRETE SEAL 326-353 FT, 493-540 FT. LATITUDE 43°46'01", LONGITUDE 112°31'54". LSD 4,793.87 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 8-IN CASING, 1.80 FT ABOVE LSD (SINCE DEC 05, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 257.36 FEET BELOW LAND SURFACE DATUM MAY 22, 1985.
LOWEST WATER LEVEL 273.27 FEET BELOW LAND SURFACE DATUM AUG 25, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 03 267.06 MAR 23 264.49 JUN 02 266.01 SEP 15 269.11

WELL NAME 05N 33E 13BDC3 SITE NUMBER 434601112315403

FORMERLY SITE NUMBER 434604112315703. DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 1,006.5 FT, 1-IN PIEZOMETER TUBE TO 725 FT, PERFORATED 717.5-722.5 FT, CONCRETE SEAL 493-540 FT, GRAVEL FILL 750-1006.5 FT. LATITUDE 43°46'01", LONGITUDE 112°31'54". LSD 4,793.87 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 8-IN CASING, 1.80 FT ABOVE LSD (SINCE DEC 05, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 250.09 FEET BELOW LAND SURFACE DATUM MAY 07, 1986.
LOWEST WATER LEVEL 262.18 FEET BELOW LAND SURFACE DATUM AUG 12, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 03 256.70 MAR 22 255.88 JUN 02 255.46 SEP 15 258.77

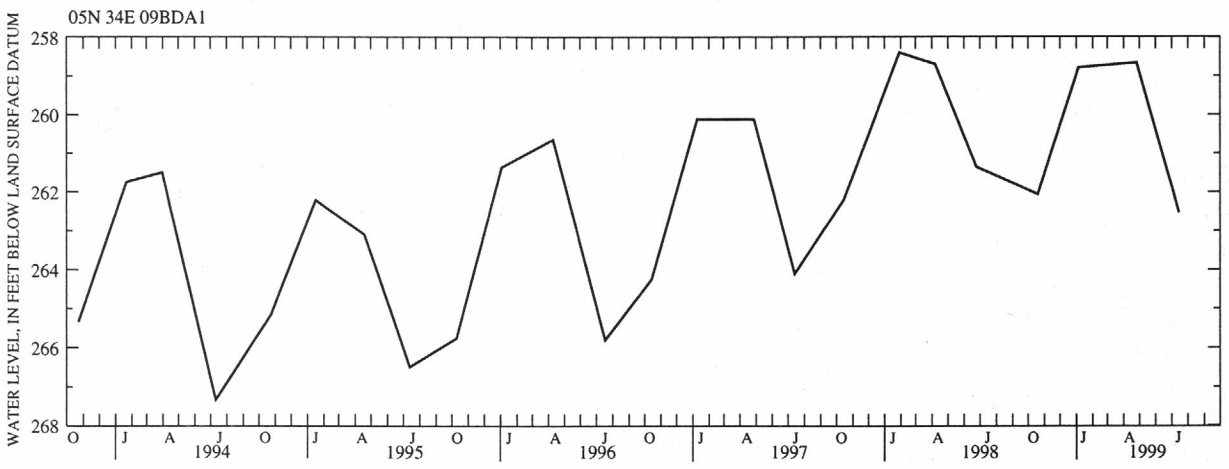
WELL NAME 05N 34E 09BDA1 SITE NUMBER 434657112282201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 320 FT, CASED TO 320 FT, PERFORATED 285-315 FT. LATITUDE 43°46'56", LONGITUDE 112°28'21". LSD 4,790.73 FT ABOVE SEA LEVEL. DEC 09, 1929, WELL WAS DEEPENED TO A DEPTH OF 553 FT, DIAM 4 IN. AUG 11, 1961, WELL HAD FILLED IN TO A DEPTH OF 436 FT, JAN 12, 1962, TO 434 FT. WATER LEVELS AFFECTED BY BAROMETRIC PRESSURE. RECORDER INSTALLED MAY 13, 1950 TO OCT 18, 1952. RECORDER INSTALLED APR 08, 1953 TO MAY 11, 1961. RECORDER INSTALLED APR 22, 1965 TO OCT 30, 1965. RECORDER INSTALLED JAN 12, 1966 TO DEC 20, 1966. RECORDER INSTALLED MAY 20, 1967 TO NOV 27, 1978. MP NO. 2 EDGE OF 1-IN COUPLING, 1.99 FT ABOVE LSD (SINCE JUL 31, 1990).

RECORDS AVAILABLE 1950 TO CURRENT YEAR.
HIGHEST WATER LEVEL 252.00 FEET BELOW LAND SURFACE DATUM FEB 11, 1973.
LOWEST WATER LEVEL 267.33 FEET BELOW LAND SURFACE DATUM JUL 11, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 19 262.06 JAN 05 258.78 APR 26 258.66 JUL 15 262.53



WELL NAME 05N 34E 29DAA1 SITE NUMBER 434407112285101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 425.5 FT, 6-IN CASING TO 328 FT, 5-IN CASING 328-398 FT, PERFORATED 363-398 FT. LATITUDE 43°44'07", LONGITUDE 112°28'50". LSD 4,877.48 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF 1-IN COUPLING, 2.53 FT ABOVE LSD (SINCE AUG 28, 1990).

RECORDS AVAILABLE 1953 TO CURRENT YEAR.
HIGHEST WATER LEVEL 346.98 FEET BELOW LAND SURFACE DATUM JAN 14, 1954.
LOWEST WATER LEVEL 359.17 FEET BELOW LAND SURFACE DATUM JUL 16, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 23 351.46 JUL 22 355.21

WELL NAME 05N 36E 02BDA1 SITE NUMBER 434748112113601

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 405 FT, CASED TO 18 FT. LATITUDE 43°47'48", LONGITUDE 112°11'36". LSD 4,763.57 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE AUG 30, 1968).

RECORDS AVAILABLE 1968, 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 40.80 FEET BELOW LAND SURFACE DATUM SEP 04, 1968.
LOWEST WATER LEVEL 57.89 FEET BELOW LAND SURFACE DATUM MAR 15, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 52.55 JAN 20 51.79 MAR 16 51.73 MAY 03 51.73 JUL 06 52.16 SEP 16 53.03

WELL NAME 05N 36E 02BDA2 SITE NUMBER 434748112113602

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DIAM 12 IN, DEPTH 923 FT, CASED TO 838 FT. LATITUDE 43°47'48", LONGITUDE 112°11'36". LSD 4,763.57 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF 1 1/2-IN TEE ON NORTH SIDE, 1.56 FT ABOVE LSD (SINCE NOV 30, 1989).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL +10.40 FEET ABOVE LAND SURFACE DATUM OCT 24, 1972.
LOWEST WATER LEVEL 13.60 FEET BELOW LAND SURFACE DATUM SEP 16, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 7.35 JAN 20 6.48 MAR 16 6.41 MAY 03 6.23 JUL 06 7.05 SEP 16 7.58

WELL NAME 05N 36E 02BDA3 SITE NUMBER 434748112113603

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 995 FT, CASED TO 985 FT. LATITUDE 43°47'48", LONGITUDE 112°11'36". LSD 4,763.57 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF 2-IN COUPLING ON PIPE EXTENSION NORTHEAST SIDE, 4.39 FT ABOVE LSD (SINCE MAR 31, 1988).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL +4.38 FEET ABOVE LAND SURFACE DATUM MAY 18, 1988.
LOWEST WATER LEVEL 20.15 FEET BELOW LAND SURFACE DATUM SEP 03, 1968.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 +2.56 JAN 20 +2.36 MAR 16 +2.52 MAY 03 +2.57 JUL 06 +2.54 SEP 16 +2.54

WELL NAME 05N 36E 21DAC1 SITE NUMBER 434447112133401

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DAIM 6 IN, DEPTH 299.5 FT, CASED TO 103 FT. LATITUDE 43°44'47", LONGITUDE 112°13'34". LSD 4,800.94 FT ABOVE SEA LEVEL. RECORDER INSTALLED, AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION NOV 23, 1967 TO MAR 19, 1980. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING, 1.00 FT ABOVE LSD (SINCE AUG 24, 1960).

RECORDS AVAILABLE 1960 TO CURRENT YEAR.
HIGHEST WATER LEVEL 252.25 FEET BELOW LAND SURFACE DATUM DEC 20, 1974.
LOWEST WATER LEVEL 267.98 FEET BELOW LAND SURFACE DATUM JUL 25, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16 260.94 JAN 13 258.39 MAR 15 258.83 MAY 12 260.51 JUL 22 264.12 SEP 14 263.92

WELL NAME 05N 37E 21DBB1 SITE NUMBER 434453112063601

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DIAM 5 IN, DEPTH 289.5 FT, CASED TO 190 FT. LATITUDE 43°44'53", LONGITUDE 112°06'36". LSD 4,744.59 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF 3/4-IN PIPE SOUTH SIDE, 1.39 FT ABOVE LSD (SINCE NOV 23, 1976).

RECORDS AVAILABLE 1975 TO CURRENT YEAR.
HIGHEST WATER LEVEL +2.44 FEET ABOVE LAND SURFACE DATUM SEP 25, 1984.
LOWEST WATER LEVEL 4.14 FEET BELOW LAND SURFACE DATUM MAY 17, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 15 .55 MAY 12 .34 JUL 22 .15 SEP 14 .08

WELL NAME 05N 37E 21DBB3 SITE NUMBER 434453112063603

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 539 FT, 3/4-IN PIEZOMETER TUBE TO 478 FT, PERFORATED 470.5-475.5 FT, CONCRETE SEAL 411-445 FT, GRAVEL FILL 445-536 FT. LATITUDE 43°44'53", LONGITUDE 112°06'36". LSD 4,774.59 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE SOUTH SIDE, 1.39 FT ABOVE LSD (SINCE NOV 23, 1976).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL +1.18 FEET ABOVE LAND SURFACE DATUM SEP 25, 1984.
LOWEST WATER LEVEL 6.21 FEET BELOW LAND SURFACE DATUM MAR 01, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16	2.28	JAN 13	2.81	MAR 15	1.81	MAY 12	1.86	JUL 22	2.36	SEP 14	1.82

WELL NAME 04N 35E 14AAA1 SITE NUMBER 434102112180701

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 1,000 FT, CASED TO 430 FT. LATITUDE 43°41'02", LONGITUDE 112°18'07". LSD 4,939.32 FT ABOVE SEA LEVEL. RECORDER INSTALLED NOV 05, 1969 TO MAR 17, 1976. RECORDER INSTALLED, AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION MAY 04, 1981 TO NOV 21, 1985. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING EAST SIDE, 0.60 FT ABOVE LSD (SINCE NOV 05, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 402.48 FEET BELOW LAND SURFACE DATUM JAN 05, 1974.
LOWEST WATER LEVEL 419.89 FEET BELOW LAND SURFACE DATUM JUL 19, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 16	409.59	MAR 15	409.65	MAY 12	411.13	SEP 14	414.17
JAN 13	409.28	APR 07	410.01	JUL 22	415.65		

WELL NAME 04N 38E 12BBB1 SITE NUMBER 434153111563201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 10 TO 6 IN, DEPTH 420 FT, 10-IN CASING TO 291.8 FT, 8-IN CASING 280-381.6 FT, 6-IN CASING 364-510 FT, PERFORATED 190-200 FT, 225-235 FT, 265-275 FT. LATITUDE 43°41'53", LONGITUDE 111°56'32". LSD 4,829.55 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE SOUTH SIDE, 1.42 FT ABOVE LSD (SINCE AUG 02, 1984).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 1.63 FEET BELOW LAND SURFACE DATUM SEP 09, 1998.
LOWEST WATER LEVEL 30.25 FEET BELOW LAND SURFACE DATUM MAR 01, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	7.03	MAR 17	20.98	MAY 03	23.91	SEP 16	2.72

WELL NAME 04N 38E 12BBB2 SITE NUMBER 434153111563202

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 528 FT, 1-IN PIEZOMETER TUBE TO 480 FT, PERFORATED 472.5-477.5 FT, GRAVEL FILL 450-528 FT, CONCRETE SEAL 420-450 FT. LATITUDE 43°41'53", LONGITUDE 111°56'32". LSD 4,829.55 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF EDGE OF 1-IN PIPE SOUTH SIDE, 1.25 FT ABOVE LSD (SINCE AUG 02, 1984).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 26.29 FEET BELOW LAND SURFACE DATUM NOV 15, 1983.
LOWEST WATER LEVEL 54.11 FEET BELOW LAND SURFACE DATUM MAY 17, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	34.62	MAR 17	46.23	MAY 03	48.57	SEP 16	31.71

WELL NAME 04N 38E 12BBB3 SITE NUMBER 434153111563203

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 705 FT, 3/4-IN PIEZOMETER TUBE TO 550 FT, PERFORATED 542.5-547.5 FT, GRAVEL FILL 538-705 FT, CONCRETE SEAL 528-538 FT. LATITUDE 43°41'53", LONGITUDE 111°56'32". LSD 4,829.55 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE SOUTH SIDE, 1.05 FT ABOVE LSD (SINCE JAN 19, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 26.35 FEET BELOW LAND SURFACE DATUM SEP 10, 1984.
LOWEST WATER LEVEL 53.62 FEET BELOW LAND SURFACE DATUM MAY 17, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12	34.31	MAR 17	45.76	MAY 03	48.09	SEP 16	31.39

WELL NAME 04N 38E 12BBB4 SITE NUMBER 434153111563204

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 842 FT, 3/4-IN PIEZOMETER TUBE TO 760 FT, PERFORATED 752.5-757.5 FT, GRAVEL FILL 726-842 FT, CONCRETE SEAL 705-726 FT. LATITUDE 43°41'53", LONGITUDE 111°56'32". LSD 4,829.55 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE JAN 19, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 27.38 FEET BELOW LAND SURFACE DATUM SEP 10, 1974.
LOWEST WATER LEVEL 55.40 FEET BELOW LAND SURFACE DATUM MAY 17, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 36.80 MAR 17 48.61 MAY 03 51.00 SEP 16 34.12

WELL NAME 04N 38E 12BBB5 SITE NUMBER 434153111563205

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 1,026 FT, 3/4-IN PIEZOMETER TUBE TO 918 FT, PERFORATED 910.5-915.5 FT, CONCRETE SEAL 842-850 FT, GRAVEL FILL 850-1,026 FT. LATITUDE 43°41'53", LONGITUDE 111°56'32". LSD 4,829.55 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-INCH PIPE SOUTH SIDE, 0.81 FT ABOVE LSD (SINCE JAN 19, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 79.14 FEET BELOW LAND SURFACE DATUM SEP 10, 1974.
LOWEST WATER LEVEL 115.32 FEET BELOW LAND SURFACE DATUM MAY 17, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 87.52 MAR 17 105.81 MAY 03 109.51 SEP 16 83.06

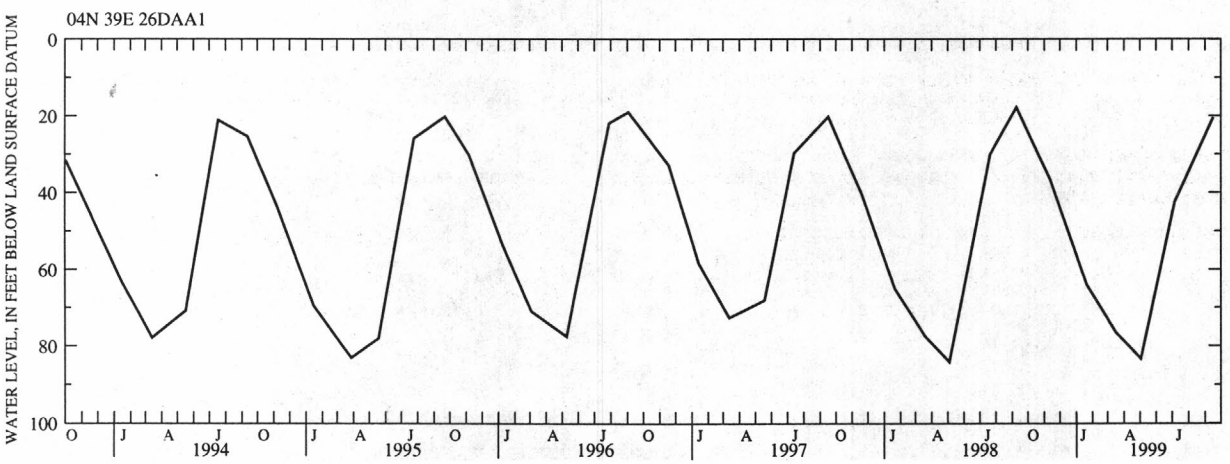
WELL NAME 04N 39E 26DAA1 SITE NUMBER 433849111492601

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 108 FT, CASED TO 108 FT. LATITUDE 43°38'49", LONGITUDE 111°49'26". LSD ABOUT 4,922 FT ABOVE SEA LEVEL. MEASUREMENTS PRIOR TO JULY 31, 1975, MADE BY UNIVERSITY OF IDAHO, WATER RESOURCES RESEARCH INSTITUTE. MP NO. 2 EDGE OF 1 1/2-IN PIPE, 1.02 FT ABOVE LSD (SINCE SEP 16, 1975).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 15.28 FEET BELOW LAND SURFACE DATUM AUG 14, 1978.
LOWEST WATER LEVEL 91.47 FEET BELOW LAND SURFACE DATUM MAY 17, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 12 36.59 JAN 21 64.10 MAR 17 76.57 MAY 03 83.40 JUL 06 42.44 SEP 16 20.49



WELL NAME 08S 16E 17CCC1 SITE NUMBER 424331114365001

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 220 FT, 6-IN CASING TO 59 FT. LATITUDE 42°43'31", LONGITUDE 114°36'50". LSD ABOUT 3,490 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE NORTH SIDE, 1.20 FT ABOVE LSD (SINCE MAY 21, 1987).

RECORDS AVAILABLE 1987 TO CURRENT YEAR.
HIGHEST WATER LEVEL 150.23 FEET BELOW LAND SURFACE DATUM SEP 17, 1987.
LOWEST WATER LEVEL 170.30 FEET BELOW LAND SURFACE DATUM JUL 19, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 02	156.96	JAN 11	161.58	MAR 09	163.23	MAY 06	165.19	JUL 21	162.12	SEP 24	158.28

WELL NAME 08S 17E 33DAD2 SITE NUMBER 424105114274901

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, 8 TO 6 IN, DEPTH 340 FT, 6-IN CASING TO 291 FT. LATITUDE 42°41'05", LONGITUDE 114°27'49". LSD ABOUT 3,285 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 1.65 FT ABOVE LSD (SINCE JUL 02, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 250.32 FEET BELOW LAND SURFACE DATUM NOV 26, 1990.
LOWEST WATER LEVEL 261.53 FEET BELOW LAND SURFACE DATUM JUN 12, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 22	250.65	DEC 15	252.24	FEB 10	252.86	APR 26	255.71	JUN 09	254.10	AUG 10	252.15
NOV 02	250.57	JAN 11	252.90	MAR 09	258.20	MAY 26	260.25	JUL 19	261.20	SEP 24	251.20

WELL NAME 08S 19E 05DAB1 SITE NUMBER 424529114150901

FORMERLY SITE NUMBER 424524114150901. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 21 TO 16 IN, DEPTH 329.1 FT, 21-IN CASING TO 4 FT, 16-IN CASING 197-277 FT, CONCRETE SEAL AT 272 FT. LATITUDE 42°45'29", LONGITUDE 114°15'09". LSD 4,075.54 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 06, 1960 TO AUG 13, 1971. MP NO. 2 EDGE OF 2-IN PIPE COUPLING NORTHEAST SIDE, 1.17 FT ABOVE LSD (SINCE AUG 13, 1971).

RECORDS AVAILABLE 1957 TO CURRENT YEAR.
HIGHEST WATER LEVEL 257.71 FEET BELOW LAND SURFACE DATUM OCT 07, 1957.
LOWEST WATER LEVEL 290.08 FEET BELOW LAND SURFACE DATUM MAY 11, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 02	277.29	JAN 14	220.25	MAR 10	282.06	MAY 06	282.32	JUL 15	278.23	SEP 21	277.30

WELL NAME 09S 17E 20CAA1 SITE NUMBER 423747114293101

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 TO 12 IN, DEPTH 600 FT, 18-IN CASING TO 20 FT. LATITUDE 42°37'47", LONGITUDE 114°29'31". LSD ABOUT 3,632 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF 3/4-IN TEE IN CENTER OF CASING, 1.41 FT ABOVE LSD (SINCE APR 05, 1988).

RECORDS AVAILABLE 1974, 1982, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 141.59 FEET BELOW LAND SURFACE DATUM APR 17, 1974.
LOWEST WATER LEVEL 314.58 FEET BELOW LAND SURFACE DATUM APR 22, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 22	297.93	DEC 17	299.81	FEB 10	304.77	APR 26	310.23	JUN 09	306.89	AUG 10	302.06
NOV 02	297.83	JAN 11	301.50	MAR 09	305.39	MAY 11	309.09	JUL 19	302.92	SEP 24	299.27

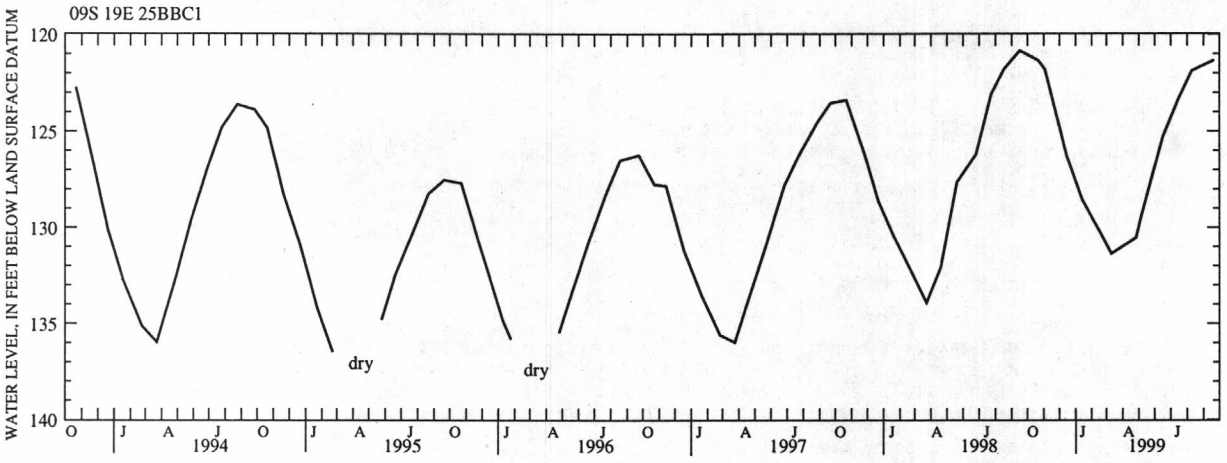
WELL NAME 09S 19E 25BBC1 SITE NUMBER 423659114111601

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 207.6 FT, CASED TO 134 FT, PERFORATED 114-134 FT. LATITUDE 42°36'59", LONGITUDE 114°11'16". LSD 3,932.37 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 12, 1960 TO JUL 21, 1960. FEB 23, 1993, WELL DEPTH SOUNDED AT 137.25 FT. MP NO. 1 EDGE OF CASING SOUTH SIDE, 2.00 FT ABOVE LSD (SINCE JUL 21, 1960).

RECORDS AVAILABLE 1957 TO CURRENT YEAR.
HIGHEST WATER LEVEL 101.06 FEET BELOW LAND SURFACE DATUM OCT 01, 1957.
LOWEST WATER LEVEL WELL DRY DURING PORTIONS OF YEARS 1995, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 22	121.35	DEC 15	126.27	FEB 17	130.26	APR 26	130.54	JUN 16	125.30	AUG 10	121.89
NOV 03	121.80	JAN 14	128.57	MAR 10	131.36	MAY 06	129.39	JUL 15	123.36	SEP 21	121.34



WELL NAME 09S 20E 01DAA1 SITE NUMBER 424016114025801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 400 FT, 8-IN CASING TO 10.6 FT, 6-IN CASING 340-400 FT, PERFORATED 340-400 FT. LATITUDE 42°40'16", LONGITUDE 114°02'58". LSD 4,211.31 FT ABOVE SEA LEVEL. RECORDER INSTALLED SEP 07, 1950 TO DEC 10, 1950. RECORDER INSTALLED AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION JUN 11, 1951 TO OCT 22, 1985. FEB 02, 1993, WELL DEPTH SOUNDED AT 386.06 FT. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF 2-IN PIPE EAST SIDE, 1.90 FT ABOVE LSD (SINCE MAY 18, 1988).

RECORDS AVAILABLE 1950 TO CURRENT YEAR.
HIGHEST WATER LEVEL 342.00 FEET BELOW LAND SURFACE DATUM SEP 30, 1953.
LOWEST WATER LEVEL 383.39 FEET BELOW LAND SURFACE DATUM APR 14, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 21	370.48	DEC 21	373.04	FEB 22	375.47	APR 21	376.41	JUN 24	377.77	AUG 20	O
NOV 24	371.47	JAN 20	374.73	MAR 22	376.33	MAY 26	374.38	JUL 20	373.13	SEP 21	370.85

WELL NAME 10S 20E 27BCC1 SITE NUMBER 423134114062601

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, DEPTH 735 FT, CASED TO 20 FT. LATITUDE 42°31'34", LONGITUDE 114°06'26". LSD 4,182.13 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 29, 1952 TO JUL 30, 1953. MP NO. 2 EDGE OF 2-IN PIPE SOUTH SIDE, 1.30 FT ABOVE LSD (SINCE APR 01, 1959).

RECORDS AVAILABLE 1952 TO CURRENT YEAR.
HIGHEST WATER LEVEL 314.90 FEET BELOW LAND SURFACE DATUM OCT 29, 1952.
LOWEST WATER LEVEL 353.13 FEET BELOW LAND SURFACE DATUM SEP 11, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 10	341.85	SEP 24	344.15

WELL NAME 10S 21E 26AAA2 SITE NUMBER 423159113570302

DRILLED TEST WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 30 TO 16 IN, DEPTH 701 FT, 20-IN CASING TO 103 FT. LATITUDE 42°31'59", LONGITUDE 113°57'03". LSD 4,147.23 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 TOP OF 4-IN ACCESS HOLE NORTH SIDE, 1.50 FT ABOVE LSD (SINCE JUN 16, 1980).

RECORDS AVAILABLE 1977, 1980, 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 249.50 FEET BELOW LAND SURFACE DATUM FEB 03, 1977.
LOWEST WATER LEVEL 275.48 FEET BELOW LAND SURFACE DATUM NOV 17, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 20	271.55	DEC 21	271.46	FEB 22	270.80	APR 21	270.18	JUN 24	268.88	AUG 20	270.10
NOV 24	271.53	JAN 20	271.06	MAR 22	270.40	MAY 24	269.66	JUL 20	269.04	SEP 21	271.36

JEROME COUNTY--continued

WELL NAME 10S 21E 28BCB1 SITE NUMBER 423145114003001

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 603 FT, CASED TO 224 FT, CONCRETE SEAL 210-224 FT. LATITUDE 42°31'45", LONGITUDE 114°00'30". LSD 4,157.26 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF 2-IN PIPE WEST SIDE, 1.02 FT ABOVE LSD (SINCE SEP 15, 1978).

RECORDS AVAILABLE 1975, 1977 TO CURRENT YEAR.
HIGHEST WATER LEVEL 299.18 FEET BELOW LAND SURFACE DATUM SEP 14, 1977.
LOWEST WATER LEVEL 323.97 FEET BELOW LAND SURFACE DATUM APR 22, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 21	309.17	DEC 21	311.86	FEB 22	315.47	APR 21	317.73	JUN 24	313.22	AUG 20	310.89
NOV 24	310.28	JAN 20	313.44	MAR 22	317.12	MAY 24	315.78	JUL 20	312.20	SEP 21	310.00

LINCOLN COUNTY

WELL NAME 04S 17E 10BBA1 SITE NUMBER 430553114255201

DRILLED STOCK WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 20 TO 8 IN, DEPTH 650 FT, 20-IN CASING TO 164 FT. LATITUDE 43°05'53", LONGITUDE 114°25'52". LSD ABOUT 4,500 FT ABOVE SEA LEVEL. MP NO. 2 BOTTOM EDGE OF ACCESS HOLE WEST SIDE, 1.10 FT ABOVE LSD (SINCE JUL 23, 1985).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL 205.32 FEET BELOW LAND SURFACE DATUM MAR 14, 1986.
LOWEST WATER LEVEL 314.37 FEET BELOW LAND SURFACE DATUM SEP 08, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 24 298.20 MAR 30 213.48 MAY 06 215.13 SEP 16 227.22

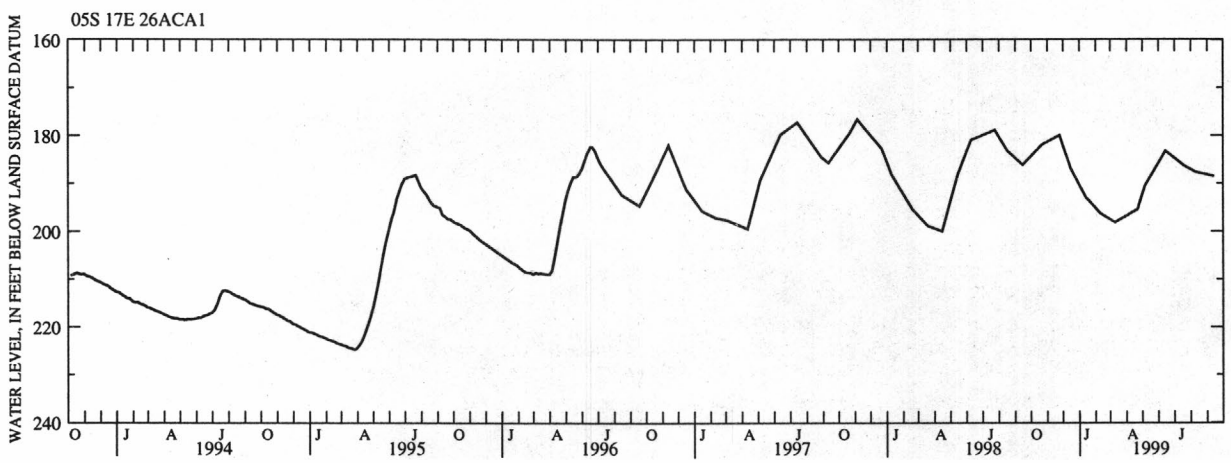
WELL NAME 05S 17E 26ACA1 SITE NUMBER 425746114240101

FORMERLY SITE NUMBER 425742114240401. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 253.5 FT, CASED TO 201 FT. LATITUDE 42°57'46", LONGITUDE 114°24'01". LSD 3,972.64 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUL 29, 1959 TO JUL 09, 1996. MP NO. 1 EDGE OF CASING NORTHWEST SIDE, 1.30 FT ABOVE LSD (SINCE AUG 05, 1957).

RECORDS AVAILABLE 1957 TO CURRENT YEAR.
HIGHEST WATER LEVEL 166.33 FEET BELOW LAND SURFACE DATUM DEC 08, 1986.
LOWEST WATER LEVEL 228.17 FEET BELOW LAND SURFACE DATUM MAR 12, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 22	181.87	DEC 15	186.86	FEB 10	196.29	APR 22	195.44	JUN 14	183.25	AUG 10	187.63
NOV 24	179.92	JAN 13	192.92	MAR 10	198.13	MAY 06	190.54	JUL 19	186.26	SEP 14	188.53



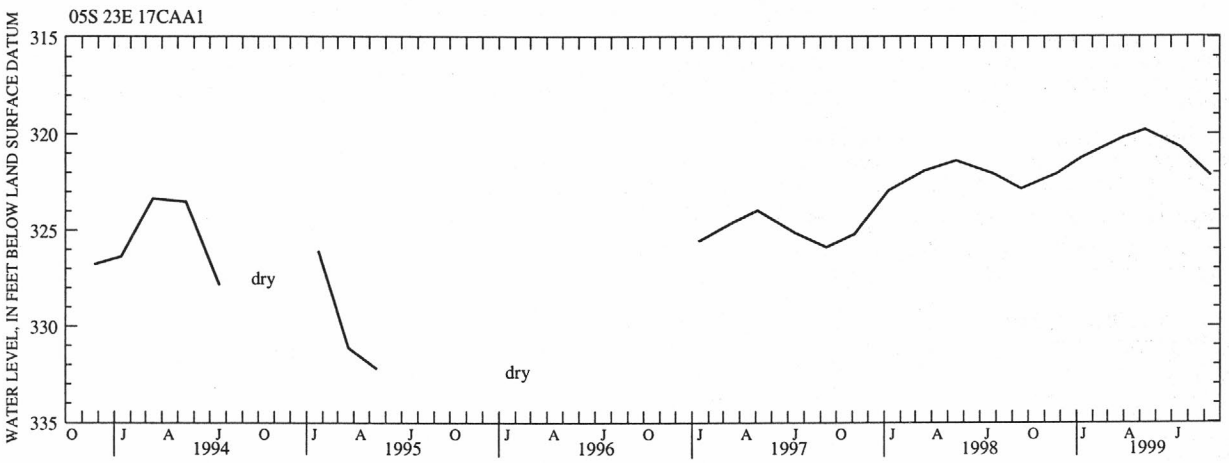
WELL NAME 05S 23E 17CAA1 SITE NUMBER 425909113444101

FORMERLY SITE NUMBER 425907113444001. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 333 FT, CASED TO 333 FT, PERFORATED 311-331 FT. LATITUDE 42°59'09", LONGITUDE 113°44'41". LSD 4,374.87 FT ABOVE SEA LEVEL. RECORDER INSTALLED AUG 21, 1957 TO NOV 14, 1985. MP NO. 2 EDGE OF CASING EAST SIDE, 2.97 FT ABOVE LSD (SINCE MAY 08, 1986).

RECORDS AVAILABLE 1957 TO CURRENT YEAR.
HIGHEST WATER LEVEL 303.04 FEET BELOW LAND SURFACE DATUM JUL 02, 1957.
LOWEST WATER LEVEL WELL DRY DURING PORTIONS OF YEARS 1994-1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 25 322.06 JAN 11 321.24 MAR 30 320.22 MAY 12 319.80 JUL 19 320.70 SEP 14 322.16



WELL NAME 06S 19E 19CCD1 SITE NUMBER 425250114145101

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP. DIAM 10 TO 8 IN, DEPTH 303 FT, 8-IN CASING TO 19 FT, 6-IN CASING 180-300 FT. LATITUDE 42°52'50", LONGITUDE 114°14'51". LSD ABOUT 4,040 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 0.75 FT ABOVE LSD (SINCE MAY 26, 1992).

RECORDS AVAILABLE 1992, 1995 TO CURRENT YEAR.
HIGHEST WATER LEVEL 220.09 FEET BELOW LAND SURFACE DATUM SEP 14, 1999.
LOWEST WATER LEVEL 231.51 FEET BELOW LAND SURFACE DATUM MAR 23, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 29 228.23 SEP 14 220.09

WELL NAME 06S 22E 28CDD1 SITE NUMBER 425155113503901

FORMERLY WELL NAME 06S 22E 28CC1. DRILLED IRRIGATION WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM, DEPTH, AND CASING INFORMATION NOT AVAILABLE. LATITUDE 42°51'55", LONGITUDE 113°50'39". LSD 4,222.66 FT ABOVE SEA LEVEL. MP NO. 2 BOTTOM EDGE OF PUMPBASE SOUTH SIDE, 0.44 FT ABOVE LSD (SINCE APR 28, 1966).

RECORDS AVAILABLE 1957, 1966, 1972, 1980, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 192.67 FEET BELOW LAND SURFACE DATUM AUG 01, 1957.
LOWEST WATER LEVEL 215.54 FEET BELOW LAND SURFACE DATUM SEP 15, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 25 208.62 MAR 29 206.08 MAY 06 205.91 SEP 14 210.19

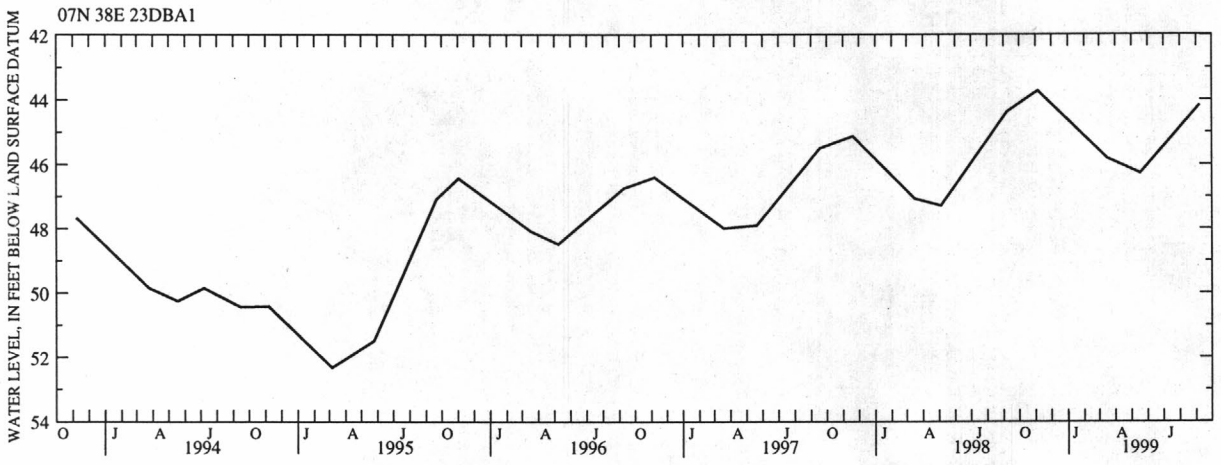
WELL NAME 07N 38E 23DBA1 SITE NUMBER 435506111563101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 236 FT, CASED TO 177 FT. LATITUDE 43°55'06", LONGITUDE 111°56'34". LSD 4,852.35 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 09, 1960 TO JUL 20, 1988. MP NO. 1 EDGE OF CASING NORTHEAST SIDE, 1.95 FT ABOVE LSD (SINCE JUL 23, 1965).

RECORDS AVAILABLE 1958 TO CURRENT YEAR.
HIGHEST WATER LEVEL 36.60 FEET BELOW LAND SURFACE DATUM OCT 26, 1984.
LOWEST WATER LEVEL 52.36 FEET BELOW LAND SURFACE DATUM MAR 18, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05 43.73 MAR 16 45.81 MAY 18 46.28 SEP 08 44.17



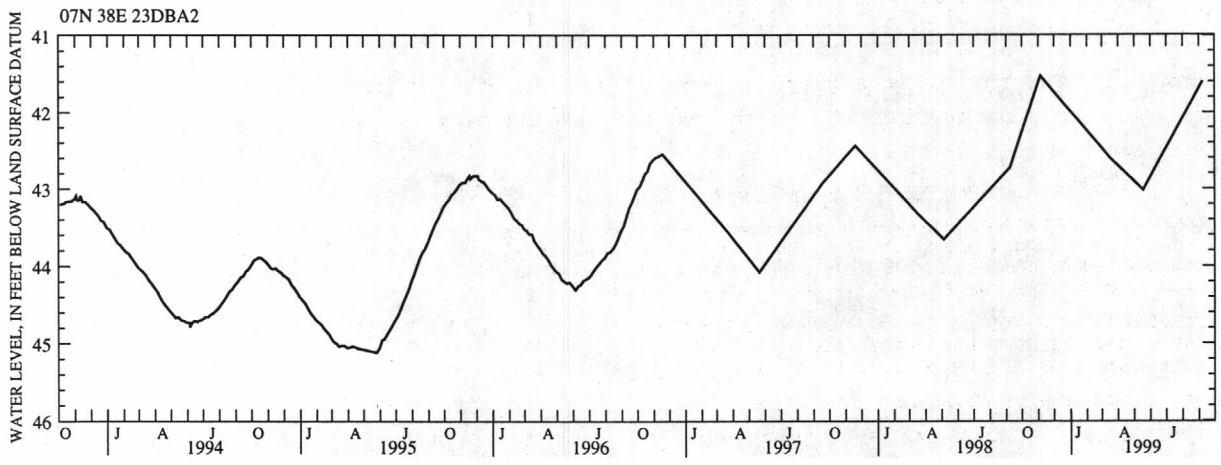
WELL NAME 07N 38E 23DBA2 SITE NUMBER 435506111563102

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 IN, DEPTH 152 FT, CASED TO 152 FT, PERFORATED 65-140 FT. AUG. 28, 1958, WELL HAD FILLED WITH SAND THROUGH PERFORATIONS TO A DEPTH OF 84 FT. LATITUDE 43°55'06", LONGITUDE 111°56'34". LSD 4,852.38 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 06, 1960 TO NOV 18, 1996. MP NO. 1 EDGE OF CASING COUPLING NORTH SIDE, 0.70 FT ABOVE LSD (SINCE APR 09, 1960).

RECORDS AVAILABLE 1958 TO CURRENT YEAR.
HIGHEST WATER LEVEL 33.24 FEET BELOW LAND SURFACE DATUM SEP 20, 1984.
LOWEST WATER LEVEL 45.12 FEET BELOW LAND SURFACE DATUM MAY 25, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05 41.53 MAR 16 42.60 MAY 18 43.02 SEP 08 41.60



WELL NAME 07N 38E 23DBA3 SITE NUMBER 435506111563201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 201.5 FT, CASED TO 181 FT. LATITUDE 43°55'06", LONGITUDE 111°56'32". LSD 4,855.75 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 3 EDGE OF 1 1/2-IN PIPE COUPLING, 3.54 FT ABOVE LSD (SINCE JUN 28, 1967).

RECORDS AVAILABLE 1958-1961, 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 36.17 FEET BELOW LAND SURFACE DATUM NOV 27, 1984.
LOWEST WATER LEVEL 49.38 FEET BELOW LAND SURFACE DATUM MAR 07, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	45.25	JAN 14	45.54	MAR 16	46.19	MAY 19	46.62	JUL 27	45.76	SEP 15	44.88

WELL NAME 07N 38E 23DBA6 SITE NUMBER 435506111563204

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 632.5 FT, 3/4-IN PIEZOMETER TUBE TO 630 FT, PERFORATED 622.5-627.5 FT, CONCRETE SEAL 595-613 FT, GRAVEL FILL 613-632.5 FT. LATITUDE 43°55'06", LONGITUDE 111°56'32". LSD 4,855.75 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 3/4-IN PIPE WEST SIDE, 3.58 FT ABOVE LSD (SINCE JUN 28, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 40.00 FEET BELOW LAND SURFACE DATUM SEP 26, 1985.
LOWEST WATER LEVEL 56.04 FEET BELOW LAND SURFACE DATUM MAR 18, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	47.97	JAN 14	48.58	MAR 16	49.45	MAY 19	49.92	JUL 27	48.70	SEP 15	47.43

WELL NAME 07N 39E 29CDC1 SITE NUMBER 435355111532401

DRIVEN OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 29.7 FT, CASED TO 27.7 FT, SANDPOINT 27.7-29.7 FT. LATITUDE 43°53'55", LONGITUDE 111°53'24". LSD 4,849.95 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 1 1/4-IN PIPE SOUTH SIDE, 0.30 FT ABOVE LSD (SINCE NOV 08, 1966).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL 2.11 FEET BELOW LAND SURFACE DATUM AUG 31, 1970.
LOWEST WATER LEVEL 24.94 FEET BELOW LAND SURFACE DATUM MAY 25, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17	18.38	JAN 14	19.03	MAR 16	19.83	MAY 13	21.60	JUL 23	22.28	SEP 15	17.32

WELL NAME 07N 39E 34CCB1 SITE NUMBER 435314111511902

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 342 FT, CASED TO 161.5 FT, CONCRETE SEAL 150-161.5 FT. LATITUDE 43°53'14", LONGITUDE 111°51'19". LSD 4,828.31 FT ABOVE SEA LEVEL. RECORDER INSTALLED AUG 19, 1969 TO JUN 26, 1980. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING EAST SIDE, 0.70 FT ABOVE LSD (SINCE AUG 19, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 9.09 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.
LOWEST WATER LEVEL 25.00 FEET BELOW LAND SURFACE DATUM MAR 16, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17	16.63	JAN 14	17.37	MAR 16	18.38	MAY 13	18.97	JUL 23	17.31	SEP 15	15.85

WELL NAME 07N 42E 32BBB1 SITE NUMBER 435358111321301

DRILLED OBSERVATION WATER-TABLE WELL IN HUCKLEBERRY RIDGE TUFF, DIAM 4 TO 1 1/2 IN, DEPTH 500 FT, 4-IN CASING TO 20 FT, 1 1/2-IN CASING 0-500 FT, PERFORATED 480-500 FT. LATITUDE 43°53'51", LONGITUDE 111°32'16". LSD 5,356.88 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 4-IN CASING SOUTH SIDE, 0.68 FT ABOVE LSD (SINCE JUL 27, 1972).

RECORDS AVAILABLE 1972-1977, 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL 309.48 FEET BELOW LAND SURFACE DATUM MAR 16, 1977.
LOWEST WATER LEVEL 458.94 FEET BELOW LAND SURFACE DATUM SEP 10, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17	427.98	JAN 19	427.96	MAR 17	428.62	MAY 19	427.74	JUL 26	434.81	SEP 20	430.98

WELL NAME 06N 38E 02DBD1 SITE NUMBER 435228111563401

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 5 TO 4 IN, DEPTH 325 FT, 5-IN CASING TO 255 FT, 4-IN CASING 255-328 FT, GRAVEL FILL 325-365 FT, CONCRETE SEAL 365-410 FT. LATITUDE 43°52'28", LONGITUDE 111°56'34". LSD 4,884.70 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF 3/4-IN PIPE SOUTH SIDE, 2.11 FT ABOVE LSD (SINCE JUN 17, 1977).

RECORDS AVAILABLE 1975-1977, 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL 70.26 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.
LOWEST WATER LEVEL 85.47 FEET BELOW LAND SURFACE DATUM MAR 18, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 18	77.36	JAN 14	78.00	MAR 16	78.85	MAY 13	79.33	JUL 23	78.09	SEP 15	76.62

WELL NAME 06N 38E 25ACB4 SITE NUMBER 434917111553102

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 681 FT, CASED TO 483.3 FT. LATITUDE 43°49'17", LONGITUDE 111°55'31". LSD 4,826.70 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 16, 1968 TO JUN 16, 1968. RECORDER INSTALLED FEB 16, 1970 TO DEC 01, 1972. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING EAST SIDE, 0.72 FT ABOVE LSD (SINCE JUN 16, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL 12.81 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.
LOWEST WATER LEVEL 28.34 FEET BELOW LAND SURFACE DATUM MAY 17, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17	20.15	JAN 14	20.80	MAR 16	21.75	MAY 13	22.32	JUL 23	20.66	SEP 15	19.27

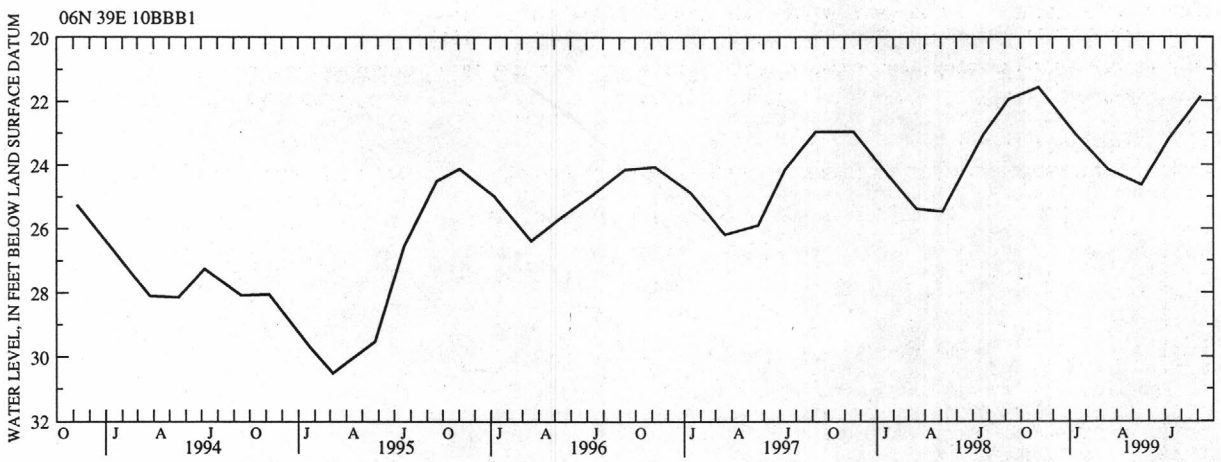
WELL NAME 06N 39E 10BBB1 SITE NUMBER 435209111512101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 260 FT, CASED TO 168 FT. LATITUDE 43°52'09", LONGITUDE 111°51'21". LSD 4,834.20 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF PIPE COUPLING, 1.80 FT ABOVE LSD (SINCE DEC 14, 1962).

RECORDS AVAILABLE 1962 TO CURRENT YEAR.
HIGHEST WATER LEVEL 14.86 FEET BELOW LAND SURFACE DATUM SEP 23, 1986.
LOWEST WATER LEVEL 30.70 FEET BELOW LAND SURFACE DATUM MAR 16, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04	21.58	JAN 14	23.06	MAR 16	24.15	MAY 18	24.63	JUL 09	23.19	SEP 08	21.87



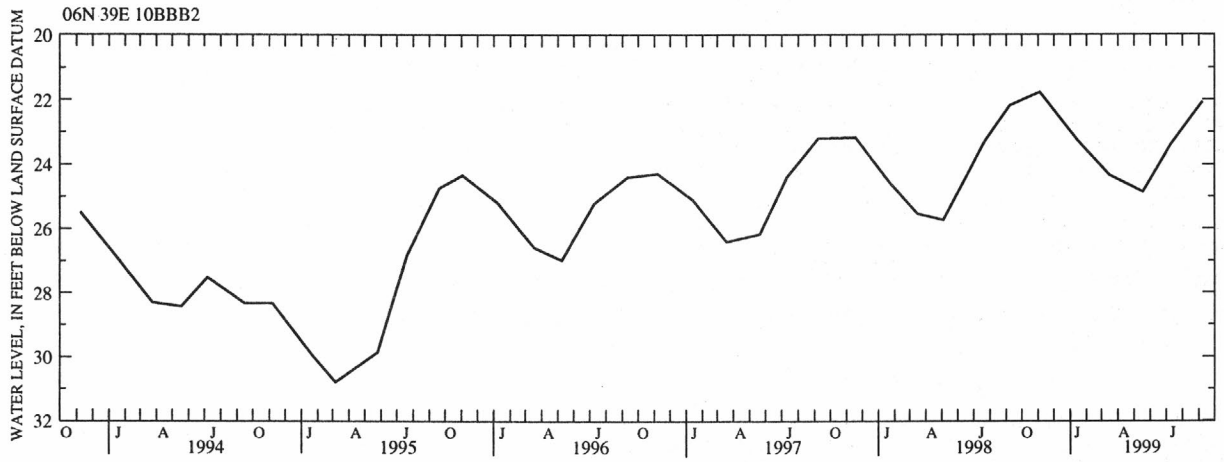
WELL NAME 06N 39E 10BBB2 SITE NUMBER 435209111512102

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 317 FT, 3/4-IN PIEZOMETER TUBE TO 316 FT, PERFORATED 307.5-312.5 FT, GRAVEL FILL 290-317 FT, CONCRETE SEAL 265-290 FT. LATITUDE 43°52'09", LONGITUDE 111°51'21". LSD 4,834.20 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE, 2.32 FT ABOVE LSD (SINCE JUN 12, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 14.94 FEET BELOW LAND SURFACE DATUM SEP 23, 1986.
LOWEST WATER LEVEL 30.87 FEET BELOW LAND SURFACE DATUM MAR 16, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04 21.77 JAN 14 23.24 MAR 16 24.34 MAY 18 24.86 JUL 09 23.41 SEP 08 22.07



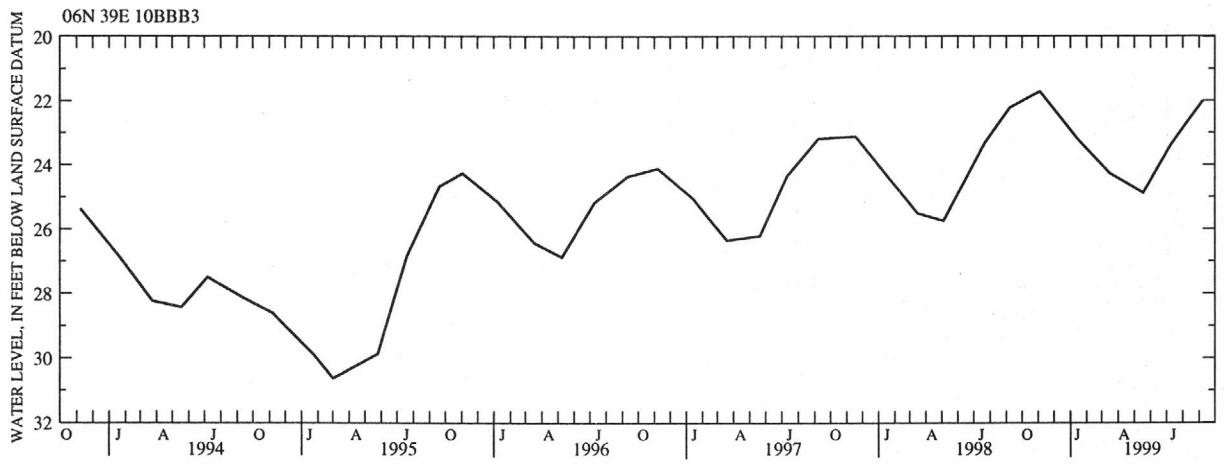
WELL NAME 06N 39E 10BBB3 SITE NUMBER 435209111512103

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 545 FT, 3/4-IN PIEZOMETER TUBE TO 387 FT, PERFORATED 376.5-381.5 FT, GRAVEL FILL 339-545 FT, CONCRETE SEAL 317-339 FT. LATITUDE 43°52'09", LONGITUDE 111°51'21". LSD 4,834.20 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE, 2.02 FT ABOVE LSD (SINCE JUN 12, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 14.95 FEET BELOW LAND SURFACE DATUM SEP 23, 1986.
LOWEST WATER LEVEL 30.78 FEET BELOW LAND SURFACE DATUM MAY 17, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04 21.71 JAN 14 23.18 MAR 16 24.27 MAY 18 24.88 JUL 09 23.38 SEP 08 22.01



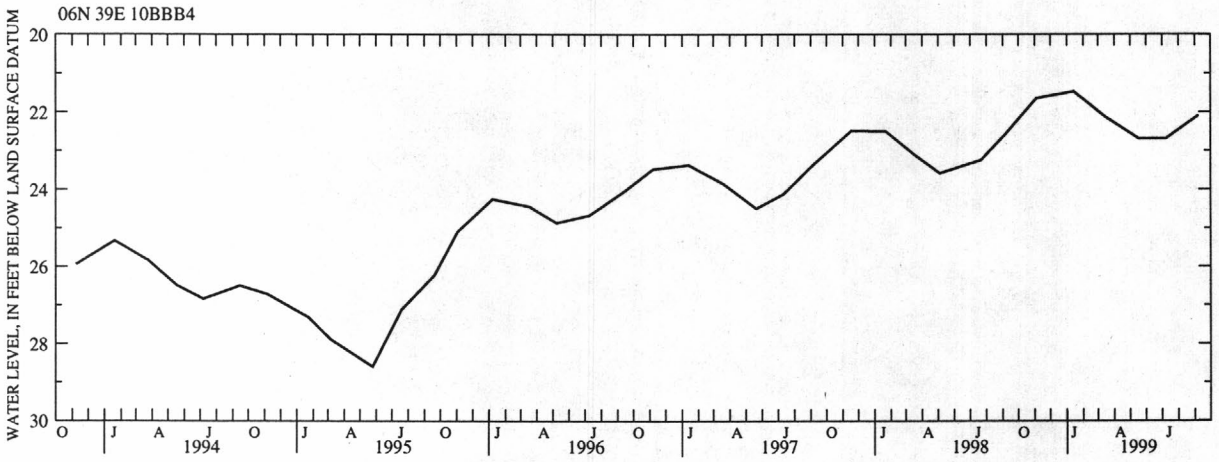
WELL NAME 06N 39E 10BBB4 SITE NUMBER 435209111512104

DRILLED OBSERVATION ARTESIAN WELL IN HUCKLEBERRY RIDGE TUFF, DEPTH 636.8 FT, 3/4-IN PIEZOMETER TUBE TO 600 FT, PERFORATED 592.5-597.5 FT, CONCRETE SEAL 545-570 FT, GRAVEL FILL 570-636.5 FT. LATITUDE 43°52'09", LONGITUDE 111°51'21". LSD 4,834.20 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE, 1.74 FT ABOVE LSD (SINCE JUN 12, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 10.26 FEET BELOW LAND SURFACE DATUM OCT 11, 1967.
LOWEST WATER LEVEL 28.80 FEET BELOW LAND SURFACE DATUM MAY 17, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04	21.65	JAN 14	21.47	MAR 16	22.14	MAY 18	22.69	JUL 09	22.68	SEP 08	22.09



WELL NAME 06N 39E 13ABA1 SITE NUMBER 435118111481601

DRIVEN OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 29.9 FT, CASED TO 29.9 FT, PERFORATED 27.9-29.9 FT. LATITUDE 43°51'18", LONGITUDE 111°48'16". LSD 4,863.51 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF SLOPING PIPE NORTH SIDE, 1.10 FT ABOVE LSD (SINCE MAY 21, 1985).

RECORDS AVAILABLE 1966-1971, 1977 TO CURRENT YEAR.
HIGHEST WATER LEVEL 5.14 FEET BELOW LAND SURFACE DATUM JUL 30, 1970.
LOWEST WATER LEVEL 20.37 FEET BELOW LAND SURFACE DATUM MAR 16, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17	13.80	JAN 14	15.76	MAR 16	18.75	MAY 13	15.88	JUL 23	6.67	SEP 15	7.18

WELL NAME 06N 39E 16DAA1 SITE NUMBER 435048111512701

DRIVEN OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 26.7 FT, CASED TO 26.7 FT, PERFORATED 24.7-26.7 FT. LATITUDE 43°50'48", LONGITUDE 111°51'27". LSD 4,834.85 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 1 1/4-IN PIPE, 0.80 FT ABOVE LSD (SINCE NOV 08, 1966).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL 1.54 FEET BELOW LAND SURFACE DATUM AUG 10, 1976.
LOWEST WATER LEVEL 13.82 FEET BELOW LAND SURFACE DATUM MAR 16, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17	9.20	JAN 14	11.22	MAR 16	12.55	MAY 13	11.46	JUL 23	6.11	SEP 15	6.08

WELL NAME 06N 39E 23AAC2 SITE NUMBER 435015111495302

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 449.5 FT, CASED TO 248 FT, CONCRETE SEAL 240.5-257 FT, 435-440 FT, GRAVEL FILL 440-465 FT. LATITUDE 43°50'15", LONGITUDE 111°49'53". LSD 4,843.84 FT ABOVE SEA LEVEL. RECORDER INSTALLED SEP 15, 1969 TO AUG 24, 1982. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE APR 14, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 22.63 FEET BELOW LAND SURFACE DATUM SEP 23, 1986.
LOWEST WATER LEVEL 38.55 FEET BELOW LAND SURFACE DATUM MAR 16, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17	30.23	JAN 14	30.97	MAR 16	32.08	MAY 17	32.74	JUL 23	30.76	SEP 15	29.27

WELL NAME 06N 39E 28BBB1 SITE NUMBER 434932111523701

DRIVEN OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 26.3 FT, CASED TO 26.3 FT, PERFORATED 24.3-26.3 FT. LATITUDE 43°49'32", LONGITUDE 111°52'37". LSD 4,828.69 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 3 EDGE OF 1 1/4-IN PIPE WEST SIDE, 3.89 FT ABOVE LSD (SINCE JUL 20, 1977).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL 1.62 FEET BELOW LAND SURFACE DATUM JUN 08, 1976.
LOWEST WATER LEVEL 10.88 FEET BELOW LAND SURFACE DATUM MAR 16, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17	8.26	JAN 14	9.01	MAR 16	10.00	MAY 13	9.91	JUL 23	4.41	SEP 15	5.61

WELL NAME 06N 39E 30ADC1 SITE NUMBER 434915111540501

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 295 FT, CASED TO 263 FT. LATITUDE 43°49'15", LONGITUDE 111°54'05". LSD 4,816.92 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 1-IN PIPE COUPLING, 2.00 FT ABOVE LSD (SINCE JAN 14, 1963).

RECORDS AVAILABLE 1963 TO CURRENT YEAR.
HIGHEST WATER LEVEL .03 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.
LOWEST WATER LEVEL 12.39 FEET BELOW LAND SURFACE DATUM MAR 18, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05	4.56	JAN 14	6.16	MAR 17	6.93	MAY 18	6.87	JUL 09	5.04	SEP 08	4.46

WELL NAME 06N 39E 30ADC2 SITE NUMBER 434915111540502

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 620 FT, 3/4-IN PIEZOMETER TUBE TO 445 FT, PERFORATED 437.5-442.5 FT, GRAVEL FILL 406-620 FT, CONCRETE SEAL 385-406 FT. LATITUDE 43°49'15", LONGITUDE 111°54'05". LSD 4,816.92 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE COUPLING, 2.20 FT ABOVE LSD (SINCE JUL 25, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL .99 FEET BELOW LAND SURFACE DATUM NOV 07, 1985.
LOWEST WATER LEVEL 16.83 FEET BELOW LAND SURFACE DATUM MAR 18, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05	7.72	JAN 14	9.27	MAR 17	10.44	MAY 18	10.80	JUL 09	9.40	SEP 08	8.05

WELL NAME 06N 39E 35CBB2 SITE NUMBER 434816111501302

DRIVEN OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 27.1 FT, CASED TO 27.1 FT, PERFORATED 25.1-27.1 FT. LATITUDE 43°48'16", LONGITUDE 111°50'13". LSD 4,840.57 FT ABOVE SEA LEVEL. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 1 1/4-IN PIPE COLLAR, 0.70 FT ABOVE LSD (SINCE NOV 08, 1966).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL .90 FEET BELOW LAND SURFACE DATUM JUN 08, 1976.
LOWEST WATER LEVEL 12.41 FEET BELOW LAND SURFACE DATUM MAY 13, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17	7.53	JAN 14	8.63	MAR 16	9.73	MAY 13	10.40	JUL 23	3.80	SEP 15	3.88

WELL NAME 06N 40E 15AAA1 SITE NUMBER 435115111430201

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 55 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°51'15", LONGITUDE 111°43'02". LSD ABOUT 4,900 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 0.90 FT ABOVE LSD (SINCE JUN 24, 1976).

RECORDS AVAILABLE 1976, 1979, 1992 TO CURRENT YEAR.
HIGHEST WATER LEVEL 9.03 FEET BELOW LAND SURFACE DATUM JUL 24, 1998.
LOWEST WATER LEVEL 26.18 FEET BELOW LAND SURFACE DATUM MAY 25, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04	13.69	JAN 14	16.22	MAR 17	16.43	MAY 18	20.26	JUL 09	14.50P	SEP 08	13.64P

WELL NAME 06N 41E 02BDC1 SITE NUMBER 435237111352701

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 IN, DEPTH 350 FT, CASED 60 FT. LATITUDE 43°52'37", LONGITUDE 111°35'27". LSD 5,131.80 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF 5/8-IN ACCESS HOLE INSIDE PUMPBASE SOUTHWEST SIDE, 1.08 FT ABOVE LSD (SINCE SEP 13, 1977).

RECORDS AVAILABLE 1959, 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 260.44 FEET BELOW LAND SURFACE DATUM OCT 22, 1986.
LOWEST WATER LEVEL 284.39 FEET BELOW LAND SURFACE DATUM SEP 07, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 17	274.29	SEP 07	284.39

WELL NAME 06N 41E 11CDB1 SITE NUMBER 435128111353401

DRILLED IRRIGATION WATER-TABLE WELL IN WELDED TUFF AND ASH OF QUATERNARY AGE, DIAM 18 IN, REPORTED DEPTH 568 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°51'28", LONGITUDE 111°35'34". LSD 5,216.08 FT ABOVE SEA LEVEL. MAR 09, 1972, WELL DEPTH SOUNDED AT 489.3 FT. RECORDER INSTALLED SEP 08, 1971 TO JUN 26, 1980. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF 18-IN CASING WEST SIDE, 0.04 FT ABOVE LSD (SINCE APR 20, 1971).

RECORDS AVAILABLE 1971-1990, 1992 TO CURRENT YEAR.
HIGHEST WATER LEVEL 339.36 FEET BELOW LAND SURFACE DATUM NOV 15, 1989.
LOWEST WATER LEVEL 370.68 FEET BELOW LAND SURFACE DATUM JUL 07, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DEC 17 349.62 JAN 19 349.43 MAR 16 352.26 MAY 19 356.58 JUL 26 362.79 SEP 20 357.73

WELL NAME 06N 41E 20BDC1 SITE NUMBER 435002111380801

FORMERLY WELL NAME 06N 41E 20BCD1. DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, DEPTH 650 FT, CASED TO 12 FT. LATITUDE 43°50'02", LONGITUDE 111°39'26". LSD ABOUT 5,116 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF 1/2-IN ACCESS HOLE NORTH SIDE, 1.20 FT ABOVE LSD (SINCE JUN 06, 1986).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.
HIGHEST WATER LEVEL 224.88 FEET BELOW LAND SURFACE DATUM APR 19, 1972.
LOWEST WATER LEVEL 284.89 FEET BELOW LAND SURFACE DATUM SEP 14, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 17 269.63 SEP 08 276.23

WELL NAME 05N 39E 08DAD1 SITE NUMBER 434638111530401

DRIVEN OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 27.5 FT, CASED TO 25.5 FT, SANDPOINT 25.5-27.5 FT. LATITUDE 43°46'38", LONGITUDE 111°53'04". LSD 4,830.36 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF COLLAR, 0.70 FT ABOVE LSD (SINCE NOV 08, 1966).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL .80 FEET BELOW LAND SURFACE DATUM JUL 18, 1984.
LOWEST WATER LEVEL 8.30 FEET BELOW LAND SURFACE DATUM MAR 16, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05 5.10 MAR 17 7.50 MAY 18 7.22 SEP 08 5.48

WELL NAME 05N 40E 01CCD1 SITE NUMBER 434712111415601

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, DEPTH 716 FT, CASED TO 104 FT. LATITUDE 43°47'12", LONGITUDE 111°41'56". LSD ABOUT 5,305 FT ABOVE SEA LEVEL. AUG 24, 1972, WELL DEPTH SOUNDED AT 508.6 FT. MP NO. 2 TOP OF ACCESS HOLE IN DRUM SOUTH SIDE, 1.20 FT ABOVE LSD (SINCE MAY 01, 1973).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 439.14 FEET BELOW LAND SURFACE DATUM NOV 25, 1987.
LOWEST WATER LEVEL 452.89 FEET BELOW LAND SURFACE DATUM JUL 13, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04 442.21 MAR 16 440.20 MAY 18 439.64 SEP 08 443.83

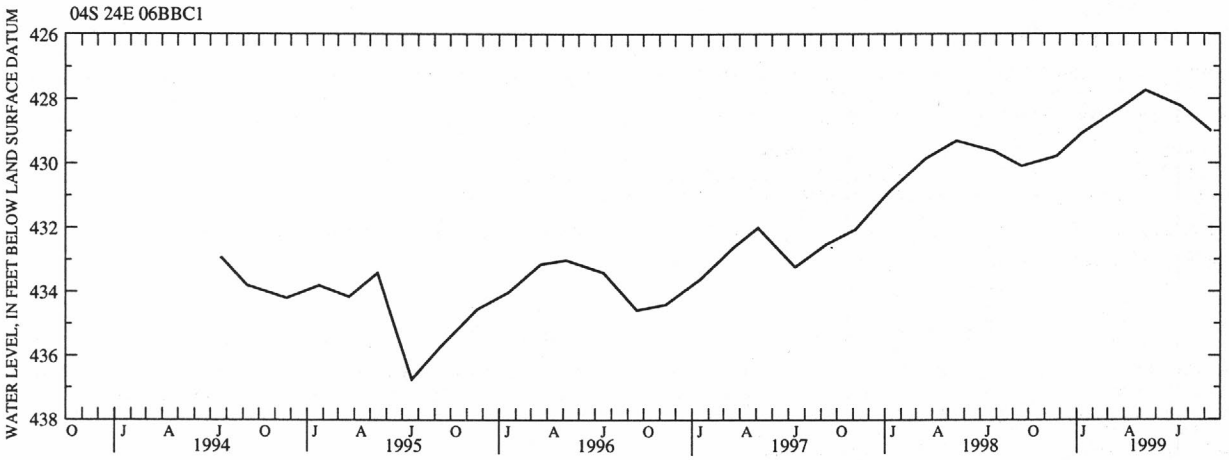
WELL NAME 04S 24E 06BBC1 SITE NUMBER 430626113391001

FORMERLY SITE NUMBER 430623113390801. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 445.1 FT, CASED TO 444 FT, PERFORATED 420-444 FT. LATITUDE 4°06'26", LONGITUDE 113°39'10". LSD 4,493.44 FT ABOVE SEA LEVEL. RECORDER INSTALLED AUG 20, 1957 TO NOV 14, 1985. MP NO. 2 EDGE OF CASING NORTH SIDE, 3.48 FT ABOVE LSD (SINCE MAY 09, 1986).

RECORDS AVAILABLE 1957 TO CURRENT YEAR.
HIGHEST WATER LEVEL 410.98 FEET BELOW LAND SURFACE DATUM APR 03, 1958.
LOWEST WATER LEVEL 436.75 FEET BELOW LAND SURFACE DATUM JUL 19, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 25 429.78 JAN 11 429.07 MAR 30 428.24 MAY 12 427.74 JUL 19 428.23 SEP 14 429.01



WELL NAME 05S 25E 22DAD1 SITE NUMBER 425812113271201

FORMERLY SITE NUMBER 425812113271401. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, DEPTH 581.3 FT, CASED TO 581.3 FT, PERFORATED 525-538 FT, 555-560 FT, 575-578 FT. LATITUDE 42°58'12", LONGITUDE 113°27'12". LSD 4,583.37 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF 2-IN PIPE NIPPLE NORTHEAST SIDE, 2.34 FT ABOVE SEA LSD (SINCE MAY 04, 1972).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.
HIGHEST WATER LEVEL 491.46 FEET BELOW LAND SURFACE DATUM APR 27, 1973.
LOWEST WATER LEVEL 512.41 FEET BELOW LAND SURFACE DATUM SEP 13, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 05 507.74 MAR 29 504.16 MAY 17 505.81 SEP 23 507.08

WELL NAME 06S 24E 32DBA1 SITE NUMBER 425118113370801

DRILLED UNUSED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM, DEPTH, AND CASING INFORMATION NOT AVAILABLE. LATITUDE 42°51'18", LONGITUDE 113°37'08". LSD ABOUT 4,331 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTHEAST SIDE, 0.60 FT ABOVE LSD (SINCE MAR 04, 1994).

RECORDS AVAILABLE 1994 TO CURRENT YEAR.
HIGHEST WATER LEVEL 270.69 FEET BELOW LAND SURFACE DATUM MAR 18, 1998.
LOWEST WATER LEVEL 278.06 FEET BELOW LAND SURFACE DATUM SEP 17, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

SEP 21 272.67

WELL NAME 07S 25E 19BAA1 SITE NUMBER 424828113345201

FORMERLY SITE NUMBER 424824113345801, WELL NAME 07S 25E 19BAB1. DRILLED OBSERVATION WATER-TABLE IN SNAKE RIVER GROUP, DIAM 8 TO 5 1/2-IN, DEPTH 284 FT, 8-IN CASING TO 8 FT, 5 1/2-IN CASING 0-284 FT, PERFORATED 254-284 FT. LATITUDE 42°48'28", LONGITUDE 113°34'52". LSD 4,320.43 FT ABOVE SEA LEVEL. JULY 14, 1981, WELL DEPTH SOUNDED AT 254.5 FT. MAR 1995, WELL DEEPENED TO UNKNOWN DEPTH. RECORDER INSTALLED NOV 03, 1953 TO OCT 22, 1985. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 2 EDGE OF 1-IN PIPE, 1.42 FT ABOVE LSD (SINCE APR 11, 1995).

RECORDS AVAILABLE 1953 TO CURRENT YEAR.
HIGHEST WATER LEVEL 231.76 FEET BELOW LAND SURFACE DATUM NOV 05, 1953.
LOWEST WATER LEVEL 263.46 FEET BELOW LAND SURFACE DATUM JUL 17, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 22 256.56 DEC 22 255.01 FEB 23 254.05 APR 23 253.44 JUN 23 256.19 AUG 23 257.68
NOV 23 255.28 JAN 22 254.53 APR 01 253.42 MAY 26 254.08 JUL 21 258.32 SEP 20 257.38

WELL NAME 08S 23E 27BDC1 SITE NUMBER 424201113452701

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, DEPTH 260 FT, CASED TO 21 FT. LATITUDE 42°42'01", LONGITUDE 113°45'27". LSD 4,234.52 FT ABOVE SEA LEVEL. RECORDER INSTALLED AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION MAY 20, 1949 TO DEC 20, 1949. MP NO. 3 BOTTOM EDGE OF 1-IN ACCESS PIPE NORTH SIDE OF PUMP, 0.54 FT ABOVE LSD (SINCE MAR 27, 1963).

RECORDS AVAILABLE 1948 TO CURRENT YEAR.
HIGHEST WATER LEVEL 176.75 FEET BELOW LAND SURFACE DATUM DEC 01, 1953.
LOWEST WATER LEVEL 203.94 FEET BELOW LAND SURFACE DATUM MAY 08, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 08 203.94 SEP 21 200.99

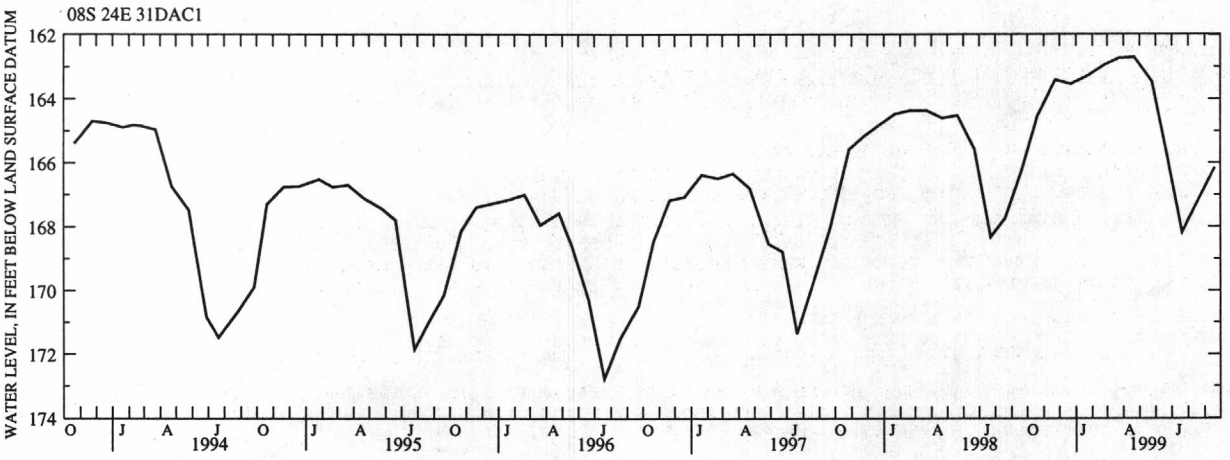
WELL NAME 08S 24E 31DAC1 SITE NUMBER 424053113412801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 194 FT, 8-IN CASING TO 85 FT, 6-IN CASING 85-188 FT, PERFORATED 158-188 FT. LATITUDE 42°40'53", LONGITUDE 113°41'28". LSD 4,226.54 FT ABOVE SEA LEVEL. RECORDER INSTALLED AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION SEP 20, 1950 TO OCT 22, 1985. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING, 1.80 FT ABOVE LSD (SINCE SEP 06, 1950).

RECORDS AVAILABLE 1950 TO CURRENT YEAR.
HIGHEST WATER LEVEL 140.50 FEET BELOW LAND SURFACE DATUM OCT 18, 1953.
LOWEST WATER LEVEL 172.77 FEET BELOW LAND SURFACE DATUM JUL 20, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 20	164.54	DEC 22	163.54	FEB 24	162.94	APR 21	162.70	JUN 22	165.74	AUG 20	167.17
NOV 23	163.41	JAN 22	163.29	MAR 23	162.73	MAY 25	163.47	JUL 21	168.18	SEP 20	166.16



WELL NAME 08S 25E 16DAC1 SITE NUMBER 424334113320201

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, REPORTED DEPTH 230 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°43'34", LONGITUDE 113°32'02". LSD 4,243.40 FT ABOVE SEA LEVEL. MP NO. 2 TOP EDGE OF SLOPING PIPE NORTHEAST SIDE, 1.25 FT ABOVE LSD (SINCE SEP 18, 1991).

RECORDS AVAILABLE 1949 TO CURRENT YEAR.
HIGHEST WATER LEVEL 148.37 FEET BELOW LAND SURFACE DATUM DEC 01, 1953.
LOWEST WATER LEVEL 188.06 FEET BELOW LAND SURFACE DATUM SEP 10, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 08 175.62 SEP 20 173.15

WELL NAME 08S 25E 36DAA1 SITE NUMBER 424102113282101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12 TO 10 IN, DEPTH 207 FT, 12-IN CASING TO 56 FT, 10-IN CASING 0-111 FT, PERFORATED INTERVAL NOT AVAILABLE. LATITUDE 42°41'02", LONGITUDE 113°28'21". LSD 4,209.00 FT ABOVE SEA LEVEL. RECORDER INSTALLED AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION APR 14, 1952 TO SEP 12, 1962. APR 16, 1985, WELL DEPTH SOUNDED AT 193.06 FT. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 3 EDGE OF ACCESS PIPE SOUTHEAST SIDE, 0.85 FT ABOVE LSD (SINCE MAY 10, 1996).

RECORDS AVAILABLE 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 97.04 FEET BELOW LAND SURFACE DATUM SEP 10, 1952.
LOWEST WATER LEVEL 123.11 FEET BELOW LAND SURFACE DATUM APR 11, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 22	117.25	DEC 17	118.21	FEB 23	118.99	APR 23	118.62	JUN 23	117.45	AUG 23	117.53
NOV 25	117.83	JAN 22	118.69	APR 02	118.92	MAY 26	117.96	JUL 22	117.64	SEP 20	117.19

WELL NAME 09S 22E 16CDB1 SITE NUMBER 423817113530201

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 21 IN, DEPTH 297 FT, CASED TO 16 FT. LATITUDE 42°38'17", LONGITUDE 113°53'02". LSD ABOUT 4,201 FT ABOVE SEA LEVEL. MAY 17, 1961, WELL WAS DEEPENED TO A DEPTH OF 380 FT, DIAM 20 IN, CASED TO 20 FT. APR 25, 1966, WELL WAS REAMED AND DEEPENED TO A DEPTH OF 495 FT, DIAM 10 TO 8 IN, 10-IN CASING 322-384 FT. MP NO. 2 TOP OF 1-IN ACCESS HOLE INSIDE PUMPBASE EAST SIDE, 0.70 FT ABOVE LSD (SINCE MAY 18, 1966).

RECORDS AVAILABLE 1952 TO CURRENT YEAR.
HIGHEST WATER LEVEL 235.52 FEET BELOW LAND SURFACE DATUM MAR 23, 1954.
LOWEST WATER LEVEL 275.15 FEET BELOW LAND SURFACE DATUM SEP 17, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 08 259.25 SEP 21 267.85

WELL NAME 09S 22E 33ADA1 SITE NUMBER 423604113522401

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12 IN, DEPTH 252.5 FT, CASED TO 90 FT. LATITUDE 42°36'04", LONGITUDE 113°52'24". LSD 4,190.42 FT ABOVE SEA LEVEL. RECORDER INSTALLED JAN 10, 1950 TO OCT 16, 1950. MP NO. 5 TOP OF ACCESS HOLE NORTH SIDE, 2.80 FT ABOVE LSD (SINCE SEP 27, 1976).

RECORDS AVAILABLE 1947 TO CURRENT YEAR.
HIGHEST WATER LEVEL 226.07 FEET BELOW LAND SURFACE DATUM MAR 23, 1954.
LOWEST WATER LEVEL 247.60 FEET BELOW LAND SURFACE DATUM SEP 17, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 08 244.50 SEP 21 245.57

WELL NAME 09S 25E 03CAC1 SITE NUMBER 424003113313101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 300 FT, CASED TO 100 FT. LATITUDE 42°40'03", LONGITUDE 113°31'31". LSD 4,206.45 FT ABOVE SEA LEVEL. RECORDER INSTALLED SEP 18, 1980 TO OCT 22, 1985. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.40 FT ABOVE LSD (SINCE SEP 27, 1976).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 40.94 FEET BELOW LAND SURFACE DATUM JUL 26, 1977.
LOWEST WATER LEVEL 61.35 FEET BELOW LAND SURFACE DATUM APR 11, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 22	53.68	DEC 17	55.48	FEB 24	56.43	APR 23	55.65	JUN 23	53.58	AUG 22	53.40
NOV 23	54.79	JAN 21	56.04	MAR 31	56.45	MAY 25	54.50	JUL 22	53.70	SEP 20	52.88

WELL NAME 10S 22E 10AAD1 SITE NUMBER 423422113511801

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 115 FT, 6-IN CASING TO 95.5 FT. LATITUDE 42°34'22", LONGITUDE 113°51'18". LSD ABOUT 4,196 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE WEST SIDE, 0.70 FT ABOVE LSD (SINCE OCT 17, 1985).

RECORDS AVAILABLE 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 79.68 FEET BELOW LAND SURFACE DATUM NOV 04, 1997.
LOWEST WATER LEVEL 85.13 FEET BELOW LAND SURFACE DATUM MAY 23, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 30	81.12	JAN 14	81.83	MAY 06	83.89	SEP 21	82.54
JAN 11	81.32	MAR 08	82.38	JUL 19	83.39		

ONEIDA COUNTY

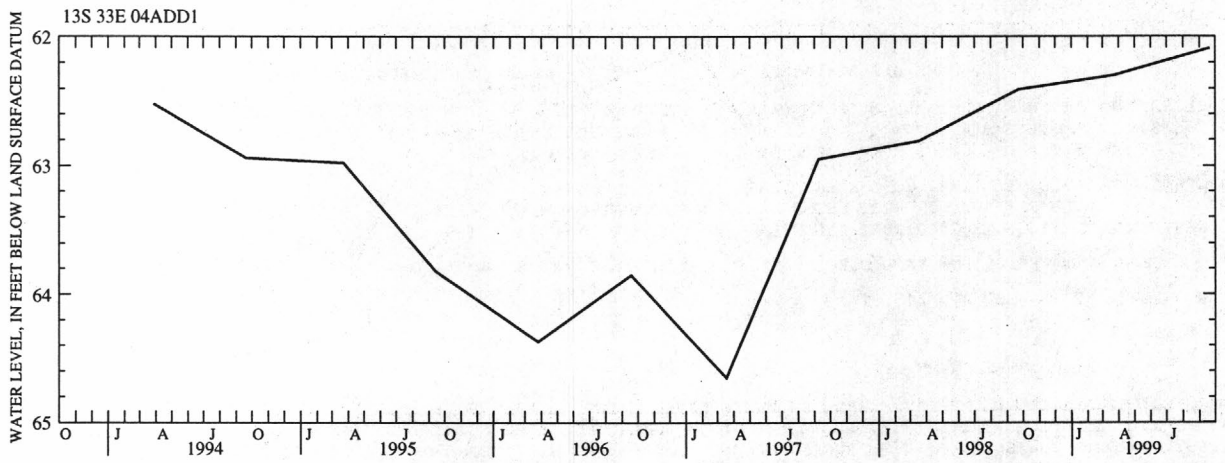
WELL NAME 13S 33E 04ADD1 SITE NUMBER 421915112354601

FORMERLY SITE NUMBER 421917112354901. DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 4 IN, DEPTH 145.8 FT, CASED TO 122 FT. LATITUDE 42°19'15", LONGITUDE 112°35'46". LSD ABOUT 5,153 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 0.70 FT ABOVE LSD (SINCE MAY 05, 1947).

RECORDS AVAILABLE 1947 TO CURRENT YEAR.
HIGHEST WATER LEVEL 40.92 FEET BELOW LAND SURFACE DATUM SEP 25, 1986.
LOWEST WATER LEVEL 81.60 FEET BELOW LAND SURFACE DATUM MAY 05, 1947.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 23 62.30 SEP 21 62.09



WELL NAME 14S 35E 13DBA1 SITE NUMBER 421219112184101

DRILLED IRRIGATION ARTESIAN WELL IN OLDER TERRACE GRAVEL, DIAM 14 IN, DEPTH 289 FT, CASED TO 289 FT, PERFORATED OPPOSITE ALL GRAVELS 114-289 FT. LATITUDE 42°12'19", LONGITUDE 112°18'41". LSD ABOUT 4,641 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF 1-IN PIPE, 1.10 FT ABOVE LSD (SINCE SEP 23, 1993).

RECORDS AVAILABLE 1943 TO CURRENT YEAR.
HIGHEST WATER LEVEL 60.70 FEET BELOW LAND SURFACE DATUM MAR 10, 1988.
LOWEST WATER LEVEL 100.10 FEET BELOW LAND SURFACE DATUM NOV 11, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 24 74.83 SEP 21 78.19

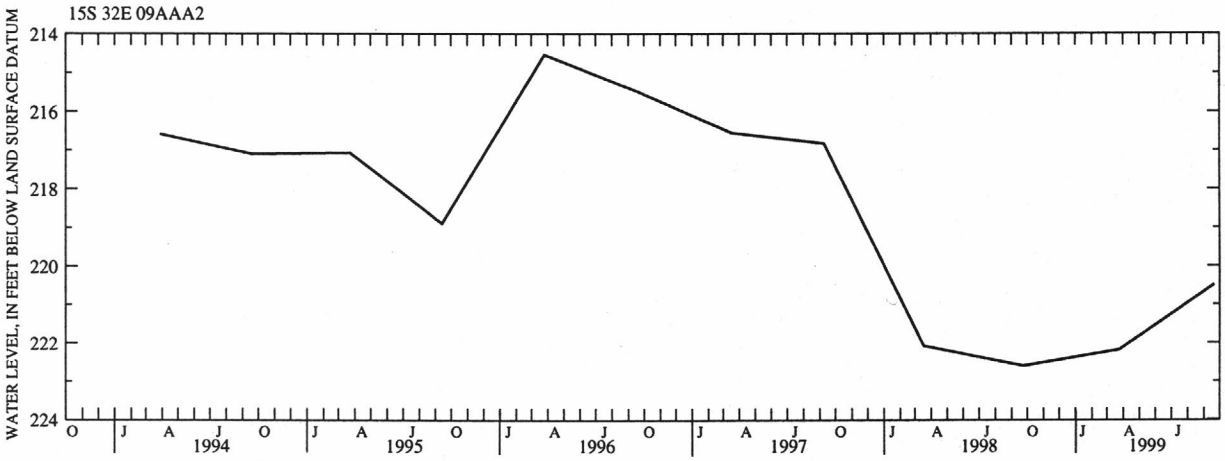
WELL NAME 15S 32E 09AAA2 SITE NUMBER 420819112425102

FORMERLY SITE NUMBER 420819112425402. DRILLED STOCK WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 10 IN, DEPTH 270 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°08'19", LONGITUDE 112°42'51". LSD ABOUT 5,040 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF STEEL PLATE, 0.70 FT ABOVE LSD (SINCE APR 07, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 211.43 FEET BELOW LAND SURFACE DATUM APR 07, 1970.
LOWEST WATER LEVEL 222.60 FEET BELOW LAND SURFACE DATUM SEP 23, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 24 222.18 SEP 21 220.49



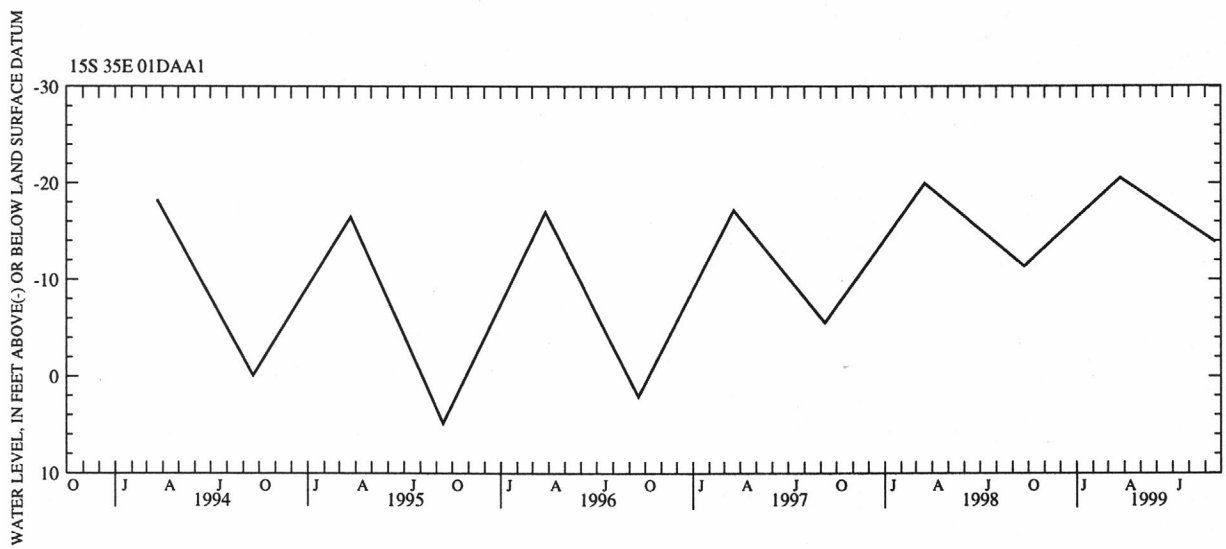
WELL NAME 15S 35E 01DAA1 SITE NUMBER 420855112182301

DRILLED IRRIGATION ARTESIAN WELL IN OLDER TERRACE GRAVEL, DIAM 3 IN, DEPTH 275 FT, CASED TO 249 FT. LATITUDE 42°08'55", LONGITUDE 112°18'23". LSD 4,452.95 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF 3-IN HORIZONTAL PIPE, 2.90 FT ABOVE LSD (SINCE SEP 23, 1981).

RECORDS AVAILABLE 1931, 1943 TO CURRENT YEAR.
HIGHEST WATER LEVEL +33.10 FEET ABOVE LAND SURFACE DATUM MAY 03, 1944.
LOWEST WATER LEVEL 8.46 FEET BELOW LAND SURFACE DATUM SEP 14, 1962.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 24 +20.52 SEP 21 +13.86



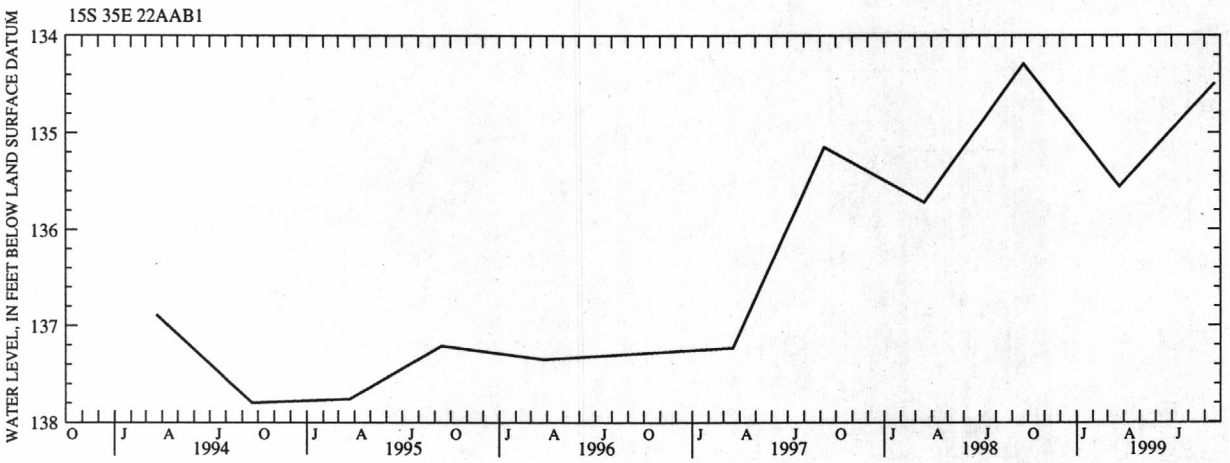
WELL NAME 15S 35E 22AAB1 SITE NUMBER 420636112175201

DRILLED IRRIGATION WATER-TABLE WELL IN OLDER TERRACE GRAVEL, DIAM 10 IN, DEPTH 229 FT, CASED TO 229 FT. LATITUDE 42°06'36", LONGITUDE 112°17'52". LSD ABOUT 4,575 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 3/4-IN ACCESS HOLE IN PUMPBASE SOUTHWEST SIDE, 0.90 FT ABOVE LSD (SINCE JUN 18, 1963).

RECORDS AVAILABLE 1963 TO CURRENT YEAR.
HIGHEST WATER LEVEL 125.15 FEET BELOW LAND SURFACE DATUM SEP 24, 1986.
LOWEST WATER LEVEL 142.00 FEET BELOW LAND SURFACE DATUM SEP 15, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 24 135.56 SEP 21 134.49R



WELL NAME 15S 36E 22ABA1 SITE NUMBER 420638112140301

DRILLED IRRIGATION ARTESIAN WELL IN OLDER TERRACE GRAVEL, DIAM 8 IN, DEPTH 100 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°06'38", LONGITUDE 112°14'03". LSD ABOUT 4,419 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING COUPLING, 1.00 FT ABOVE LSD (SINCE SEP 15, 1963).

RECORDS AVAILABLE 1943-1960, 1963 TO CURRENT YEAR.
HIGHEST WATER LEVEL +28.99 FEET ABOVE LAND SURFACE DATUM SEP 24, 1986.
LOWEST WATER LEVEL +12.03 FEET ABOVE LAND SURFACE DATUM SEP 15, 1963.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 24 +21.14 SEP 21 +20.74

WELL NAME 16S 30E 09ABB2 SITE NUMBER 420323112571202

DRILLED STOCK WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 10 TO 8 IN, DEPTH 485 FT, 10-IN CASING TO 212 FT, 8-IN CASING 200-485 FT, PERFORATED 200-485 FT. LATITUDE 42°03'23", LONGITUDE 112°57'12". LSD ABOUT 4,658 FT ABOVE SEA LEVEL. MP NO. 4 TOP OF 3/4-IN ACCESS HOLE, 1.24 FT ABOVE LSD (SINCE SEP 08, 1996).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 47.58 FEET BELOW LAND SURFACE DATUM MAR 30, 1992.
LOWEST WATER LEVEL 78.46 FEET BELOW LAND SURFACE DATUM JUN 19, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 24 54.99 SEP 21 66.99P

ONEIDA COUNTY--continued

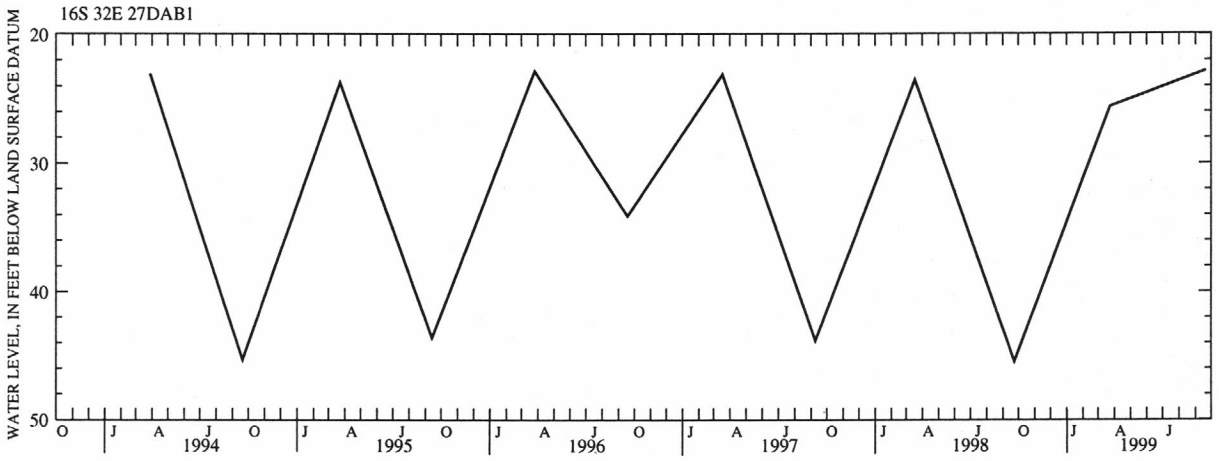
WELL NAME 16S 32E 27DAB1 SITE NUMBER 420027112415201

FORMERLY SITE NUMBER 420027112414201. DRILLED IRRIGATION WATER-TABLE WELL IN VALLEY FILL OF CENOZOIC AGE, DIAM 16 IN, DEPTH 230 FT, CASED TO 214 FT, PERFORATED 30-214 FT. LATITUDE 42°00'27", LONGITUDE 112°41'52". LSD 4,558.60 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM EDGE OF 1/4-IN ACCESS HOLE OUTSIDE PUMPBASE NORTH SIDE, 1.00 FT ABOVE LSD (SINCE APR 13, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 15.32 FEET BELOW LAND SURFACE DATUM MAR 05, 1986.
LOWEST WATER LEVEL 45.48 FEET BELOW LAND SURFACE DATUM SEP 23, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 24 25.61 SEP 21 22.82



POWER COUNTY

WELL NAME 05S 28E 26BBD1 SITE NUMBER 425746113093901

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, DEPTH 760.6 FT, CASED TO 760.6 FT, PERFORATED 730.6-760.6 FT. LATITUDE 42°57'46", LONGITUDE 113°09'39". LSD 4,941.00 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 2-IN PIPE COUPLING, 2.27 FT ABOVE LSD (SINCE SEP 23, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 678.19 FEET BELOW LAND SURFACE DATUM MAR 29, 1973.
LOWEST WATER LEVEL 688.66 FEET BELOW LAND SURFACE DATUM SEP 20, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 16 685.09 MAR 23 682.96 MAY 25 682.42 SEP 23 685.59

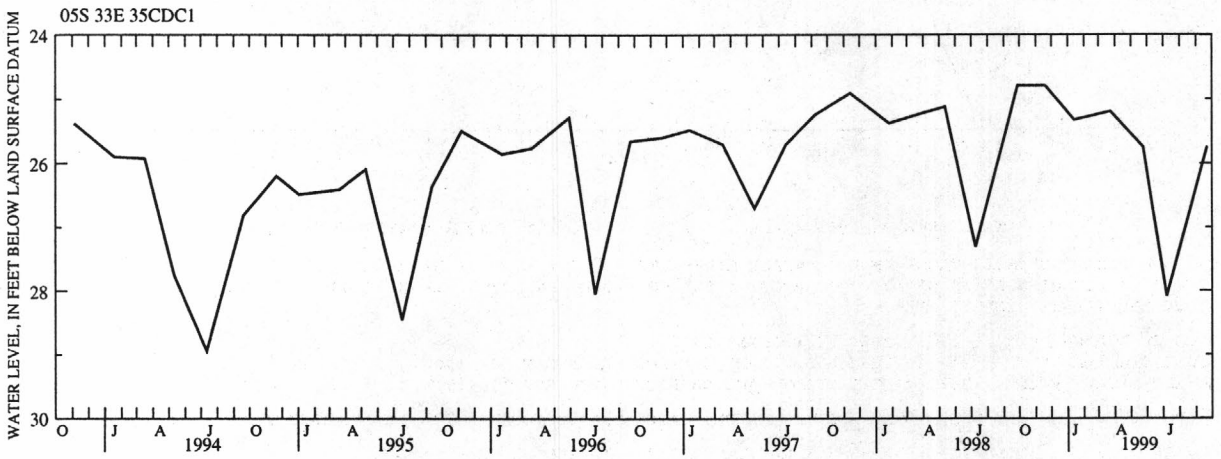
WELL NAME 05S 33E 35CDC1 SITE NUMBER 425608112340901

FORMERLY SITE NUMBER 425608112335301, WELL NAME 05S 33E 35CCD1. DRILLED OBSERVATION WATER-TABLE WELL IN GRAVEL OF QUATERNARY AGE, DIAM 6 IN, DEPTH 60 FT, CASED TO 60 FT. LATITUDE 42°56'08", LONGITUDE 112°34'09". LSD 4,424.58 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUN 23, 1957 TO SEP 20, 1969. RECORDER INSTALLED JUL 21, 1977 TO JUL 20, 1988. MP NO. 2 EDGE OF CASING NORTHEAST SIDE, 2.10 FT ABOVE LSD (SINCE MAR 22, 1955).

RECORDS AVAILABLE 1955 TO CURRENT YEAR.
HIGHEST WATER LEVEL 22.02 FEET BELOW LAND SURFACE DATUM OCT 18, 1984.
LOWEST WATER LEVEL 29.05 FEET BELOW LAND SURFACE DATUM JUL 16, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 19 24.79 JAN 13 25.32 MAR 23 25.19 MAY 24 25.75 JUL 08 28.08 SEP 22 25.74



WELL NAME 06S 29E 15BBC1 SITE NUMBER 425412113035601

DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM AND DEPTH INFORMATION NOT AVAILABLE, 22-IN CASING TO 5 FT. LATITUDE 42°54'12", LONGITUDE 113°03'56". LSD ABOUT 4,730 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF 1-IN ACCESS HOLE IN PUMPBASE WEST SIDE, 0.25 FT ABOVE LSD (SINCE MAY 14, 1986).

RECORDS AVAILABLE 1984 TO CURRENT YEAR.
HIGHEST WATER LEVEL 409.72 FEET BELOW LAND SURFACE DATUM MAY 14, 1986.
LOWEST WATER LEVEL 421.79 FEET BELOW LAND SURFACE DATUM AUG 24, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 16 415.40 JAN 13 414.11 MAR 23 412.95 MAY 24 412.85 JUL 08 417.26P SEP 23 418.94P

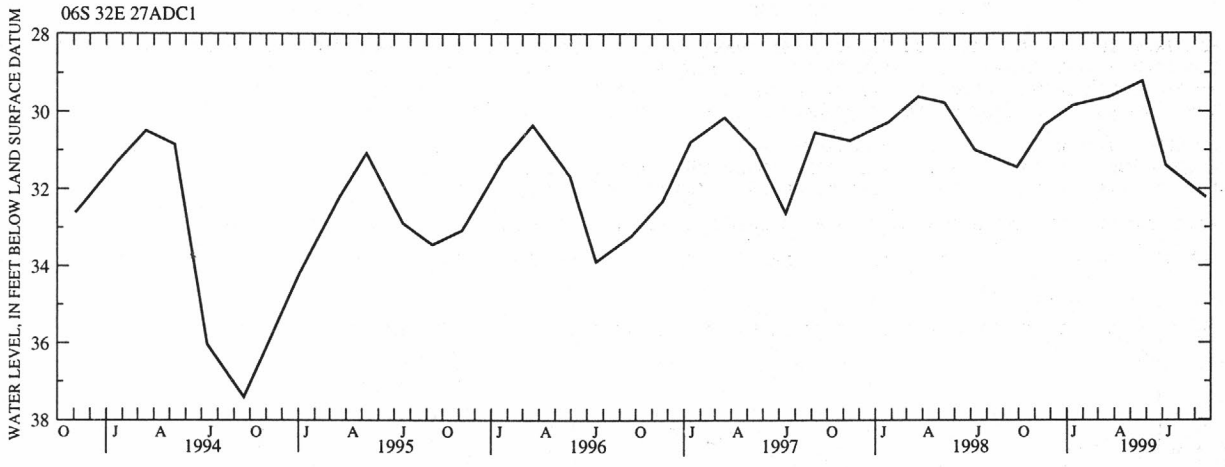
WELL NAME 06S 32E 27ADC1 SITE NUMBER 425216112414301

FORMERLY SITE NUMBER 425218112413901, WELL NAME 06S 32E 27ADD1. DRILLED OBSERVATION WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 6 IN, DEPTH 62.7 FT, CASED TO 73 FT, PERFORATED 63-66 FT, CASING FILLED WITH SAND AND GRAVEL 63-73 FT. LATITUDE 42°52'16", LONGITUDE 112°41'43". LSD 4,416.70 FT ABOVE SEA LEVEL. RECORDER INSTALLED FEB 04, 1955 TO JAN 15, 1969. RECORDER INSTALLED JUL 20, 1977 TO JUL 20, 1988. MP NO. 2 EDGE OF CASING NORTH SIDE, 2.30 FT ABOVE LSD (SINCE JAN 12, 1955).

RECORDS AVAILABLE 1954 TO CURRENT YEAR.
HIGHEST WATER LEVEL 28.52 FEET BELOW LAND SURFACE DATUM MAY 14, 1984.
LOWEST WATER LEVEL 39.86 FEET BELOW LAND SURFACE DATUM OCT 15, 1961.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 19 30.35 JAN 13 29.84 MAR 23 29.61 MAY 24 29.21 JUL 08 31.39 SEP 22 32.21



WELL NAME 07S 29E 12CCC1 SITE NUMBER 424916113011901

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 10 TO 8 IN, DEPTH 280 FT, CASED TO 13 FT. LATITUDE 42°49'16", LONGITUDE 113°01'19". LSD ABOUT 4,565 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING WEST SIDE, 0.80 FT ABOVE LSD (SINCE JAN 21, 1986).

RECORDS AVAILABLE 1965, 1986 TO CURRENT YEAR.
HIGHEST WATER LEVEL 252.29 FEET BELOW LAND SURFACE DATUM MAY 14, 1986.
LOWEST WATER LEVEL 262.57 FEET BELOW LAND SURFACE DATUM SEP 11, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 16 259.96 MAR 23 255.70 MAY 24 257.79 SEP 23 259.64

WELL NAME 07S 30E 24DDC1 SITE NUMBER 424730112531701

FORMERLY SITE NUMBER 424732112532001. DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 215 FT, CASED TO 187 FT. LATITUDE 42°47'30", LONGITUDE 112°53'17". LSD 4,394.33 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 25, 1961 TO SEP 15, 1962. MP NO. 3 TOP OF 1-IN ACCESS HOLE INSIDE PUMPBASE WEST SIDE, 1.00 FT ABOVE LSD (SINCE AUG 07, 1978).

RECORDS AVAILABLE 1953 TO CURRENT YEAR.
HIGHEST WATER LEVEL 51.98 FEET BELOW LAND SURFACE DATUM MAR 19, 1970.
LOWEST WATER LEVEL 79.26 FEET BELOW LAND SURFACE DATUM SEP 09, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 23 54.78 SEP 22 62.59

WELL NAME 07S 30E 28BBC1 SITE NUMBER 424717112574501

FORMERLY SITE NUMBER 424720112574701. DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20, DEPTH 287.8 FT, CASED TO 3 FT. LATITUDE 42°47'17", LONGITUDE 112°57'45". LSD 4,533.55 FT ABOVE SEA LEVEL. ORIGINAL WELL DIAM 18 TO 12 IN, DEPTH 518 FT, CASING WAS PULLED EXCEPT FOR A PIECE THAT IS BELOW WATER LEVEL, HOLE THEN FILLED TO A DEPTH OF 287.8 FT. RECORDER INSTALLED MAY 25, 1961 TO JAN. 15, 1969. RECORDER INSTALLED NOV 12, 1982 TO OCT 31, 1984. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.40 FT ABOVE LSD (SINCE MAY 23, 1961).

RECORDS AVAILABLE 1961 TO CURRENT YEAR.
HIGHEST WATER LEVEL 192.46 FEET BELOW LAND SURFACE DATUM APR 24, 1985.
LOWEST WATER LEVEL 210.10 FEET BELOW LAND SURFACE DATUM SEP 18, 1990.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 16 197.26 MAR 23 194.40 MAY 24 196.20 SEP 22 201.37

WELL NAME 08S 28E 01AAA2 SITE NUMBER 424543113071002

DRILLED STOCK WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 350 FT, CASED TO 201 FT. LATITUDE 42°45'43", LONGITUDE 113°07'10". LSD ABOUT 4,495 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 5/8-IN ACCESS HOLE WEST SIDE, 1.80 FT ABOVE LSD (SINCE NOV 14, 1985).

RECORDS AVAILABLE 1984 TO CURRENT YEAR.
HIGHEST WATER LEVEL 226.30 FEET BELOW LAND SURFACE DATUM MAY 16, 1986.
LOWEST WATER LEVEL 237.27 FEET BELOW LAND SURFACE DATUM SEP 09, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 19 231.90 MAR 23 229.01 MAY 24 228.64 SEP 22 235.06

WELL NAME 08S 29E 34CBC1 SITE NUMBER 424052113033901

DRILLED OBSERVATION WATER-TABLE WELL IN RAFT FORMATION, DIAM 4 TO 3 IN, DEPTH 665 FT, 4-IN CASING TO 170 FT, 3-IN CASING 313-665 FT. LATITUDE 42°40'52", LONGITUDE 113°03'39". LSD 4,389.34 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE AT LSD (SINCE DEC 02, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 138.08 FEET BELOW LAND SURFACE DATUM MAR 23, 1972.
LOWEST WATER LEVEL 152.80 FEET BELOW LAND SURFACE DATUM SEP 18, 1990.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 19 150.71 MAR 23 149.93 MAY 25 149.86 SEP 22 150.90

WELL NAME 08S 29E 34CBC2 SITE NUMBER 424052113033902

DRILLED OBSERVATION WATER-TABLE WELL IN SAND OF PLIOCENE AGE, DEPTH 818 FT, 3/4-IN PIEZOMETER TUBE TO 704 FT, PERFORATED 696.5-701.5 FT, CONCRETE SEAL 665-673 FT. LATITUDE 42°'", LONGITUDE 11°'". LSD 4,389.34 FT ABOVE SEA LEVEL. LATITUDE 42°40'52", LONGITUDE 113°03'39". LSD 4,389.34 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE EAST SIDE, 1.44 FT ABOVE LSD (SINCE DEC 02, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 149.08 FEET BELOW LAND SURFACE DATUM OCT 30, 1975.
LOWEST WATER LEVEL 162.29 FEET BELOW LAND SURFACE DATUM SEP 18, 1990.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 19 158.61 MAR 23 157.91 MAY 25 157.74 SEP 22 158.23

WELL NAME 08S 30E 23DCC1 SITE NUMBER 424220112544601

FORMERLY SITE NUMBER 424359112540801, WELL NAME 08S 30E 23DCD1. DRILLED UNUSED WATER-TABLE WELL IN NEELEY FORMATION, DIAM 5 IN, DEPTH 273 FT, CASED TO 28 FT. LATITUDE 42°42'20", LONGITUDE 112°54'46". LSD 4,511.5 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTHWEST SIDE, 0.40 FT ABOVE LSD (SINCE AUG 17, 1949).

RECORDS AVAILABLE 1949 TO CURRENT YEAR.
HIGHEST WATER LEVEL 204.39 FEET BELOW LAND SURFACE DATUM MAR 15, 1988.
LOWEST WATER LEVEL 214.80 FEET BELOW LAND SURFACE DATUM AUG 17, 1949.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 23 205.39 SEP 22 205.41

WELL NAME 09S 28E 18BAD1 SITE NUMBER 423837113134301

DRILLED OBSERVATION WATER-TABLE WELL IN RAFT FORMATION, DEPTH 150 FT, 1-IN PIEZOMETER TUBE TO 25 FT, PERFORATED 17.5-22.5 FT. LATITUDE 42°38'37", LONGITUDE 113°13'43". LSD 4,216.80 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 1-IN PIPE, 1.21 FT ABOVE LSD (SINCE DEC 02, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 11.69 FEET BELOW LAND SURFACE DATUM JUN 03, 1976.
LOWEST WATER LEVEL 16.14 FEET BELOW LAND SURFACE DATUM MAR 21, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 19 14.53 MAR 23 15.07 MAY 25 14.54 SEP 22 14.11

WELL NAME 09S 28E 18BAD2 SITE NUMBER 423837113134302

DRILLED OBSERVATION ARTESIAN WELL IN RAFT FORMATION, DEPTH 505 FT, 3/4-IN PIEZOMETER TUBE TO 420 FT, PERFORATED 412.5-417.5 FT, GRAVEL FILL 318-505 FT, CONCRETE SEAL 280-318 FT. LATITUDE 42°38'37", LONGITUDE 113°13'43". LSD 4,216.80 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE EAST SIDE, 1.83 FT ABOVE LSD (SINCE DEC 02, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL +1.93 FEET ABOVE LAND SURFACE DATUM MAY 04, 1971.
LOWEST WATER LEVEL 22.78 FEET BELOW LAND SURFACE DATUM NOV 23, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 19 21.36 MAR 23 20.44 MAY 25 19.62 SEP 22 20.57

WELL NAME 09S 29E 04BCA1 SITE NUMBER 424013113043801

DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE, DIAM 5 IN, DEPTH 52.6 FT, CASED TO 51.6. LATITUDE 42°40'13", LONGITUDE 113°04'38". LSD 4,226.66 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 01, 1984 TO DEC 07, 1994. MP NO. 2 EDGE OF CASING NORTHEAST SIDE, 0.20 FT BELOW LSD (SINCE NOV 11, 1982).

RECORDS AVAILABLE 1956 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.39 FEET BELOW LAND SURFACE DATUM OCT 18, 1956.
LOWEST WATER LEVEL 14.57 FEET BELOW LAND SURFACE DATUM AUG 18, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 09	7.14	MAR 23	4.64	MAY 25	4.99	AUG 20	6.17	SEP 22	6.59

WELL NAME 09S 29E 18CDA1 SITE NUMBER 423808113063601

DRILLED DOMESTIC WATER-TABLE WELL IN WALCOTT TUFF, DIAM 6 IN, DEPTH 250 FT, CASED TO 240 FT. LATITUDE 42°38'08", LONGITUDE 113°06'36". LSD 4,249.34 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE NORTHWEST SIDE, 2.00 FT ABOVE LSD (SINCE NOV 10, 1982).

RECORDS AVAILABLE 1982 TO CURRENT YEAR.
HIGHEST WATER LEVEL 38.34 FEET BELOW LAND SURFACE DATUM MAY 14, 1984.
LOWEST WATER LEVEL 51.32 FEET BELOW LAND SURFACE DATUM SEP 12, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 19	48.23	MAR 23	41.78	MAY 25	43.58	SEP 22	45.99

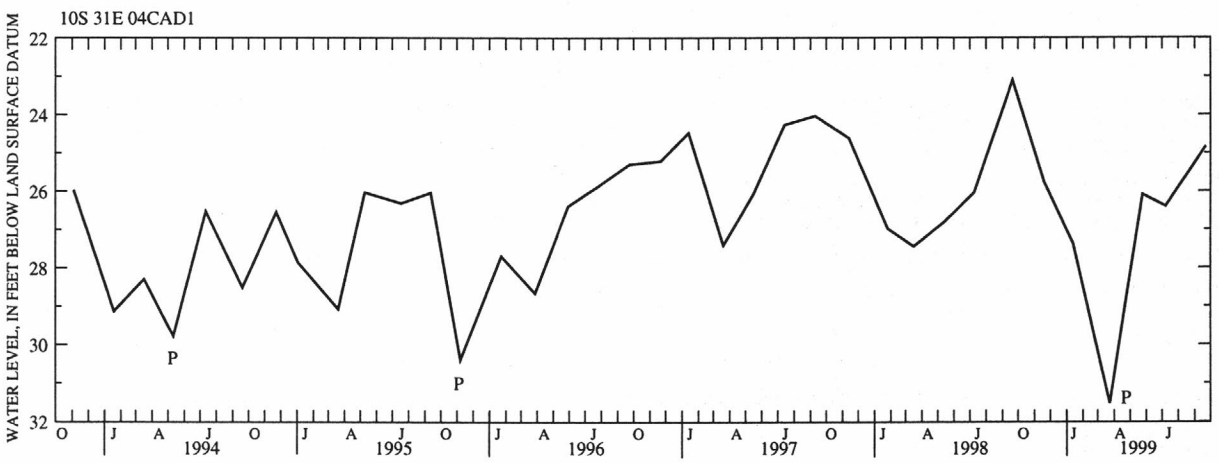
WELL NAME 10S 31E 04CAD1 SITE NUMBER 423440112502201

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 90 FT, 6-IN CASING TO 70 FT. LATITUDE 42°34'40", LONGITUDE 112°50'22". LSD ABOUT 4,800 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 3/4-IN ACCESS HOLE, 3.30 FT ABOVE LSD (SINCE NOV 28, 1978).

RECORDS AVAILABLE 1978-1979, 1992 TO CURRENT YEAR.
HIGHEST WATER LEVEL 24.03 FEET BELOW LAND SURFACE DATUM SEP 10, 1997.
LOWEST WATER LEVEL 31.70 FEET BELOW LAND SURFACE DATUM NOV 28, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 19	25.77	JAN 13	27.38	MAR 23	31.53	MAY 24	26.09	JUL 08	26.40	SEP 22	24.83P



POWER COUNTY--continued

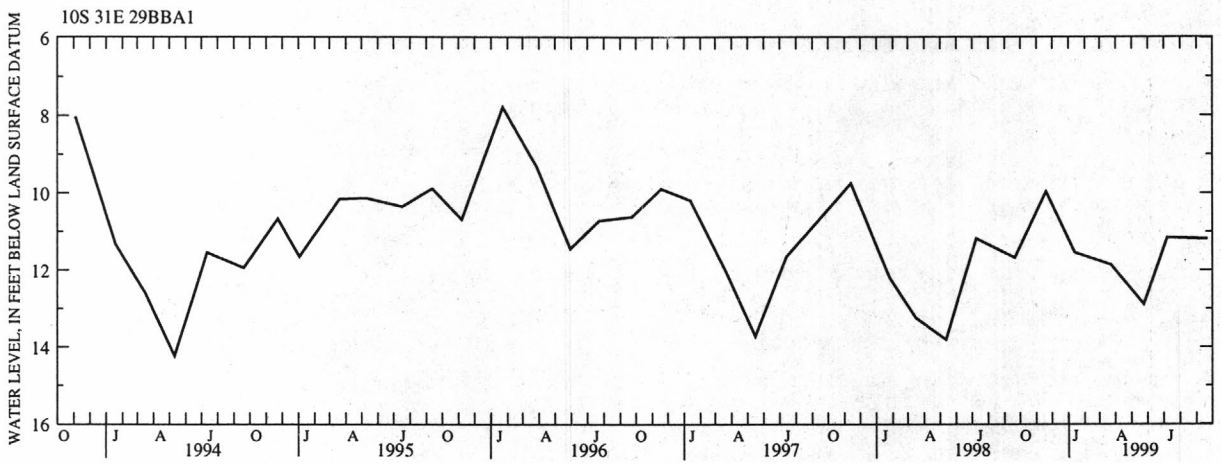
WELL NAME 10S 31E 29BBA1 SITE NUMBER 423151112515201

BORED OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 17.4 FT, CASED TO 15.4 FT, SANDPOINT 15.4-17.4 FT. LATITUDE 42°31'51", LONGITUDE 112°51'52". LSD ABOUT 4,730 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 1 1/4-IN PIPE, 3.20 FT ABOVE LSD (SINCE MAY 10, 1978).

RECORDS AVAILABLE 1978 TO CURRENT YEAR.
HIGHEST WATER LEVEL 7.47 FEET BELOW LAND SURFACE DATUM NOV 21, 1991.
LOWEST WATER LEVEL 15.31 FEET BELOW LAND SURFACE DATUM MAY 10, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 19	9.97	JAN 13	11.55	MAR 23	11.87	MAY 24	12.89	JUL 08	11.16	SEP 22	11.19



TETON COUNTY

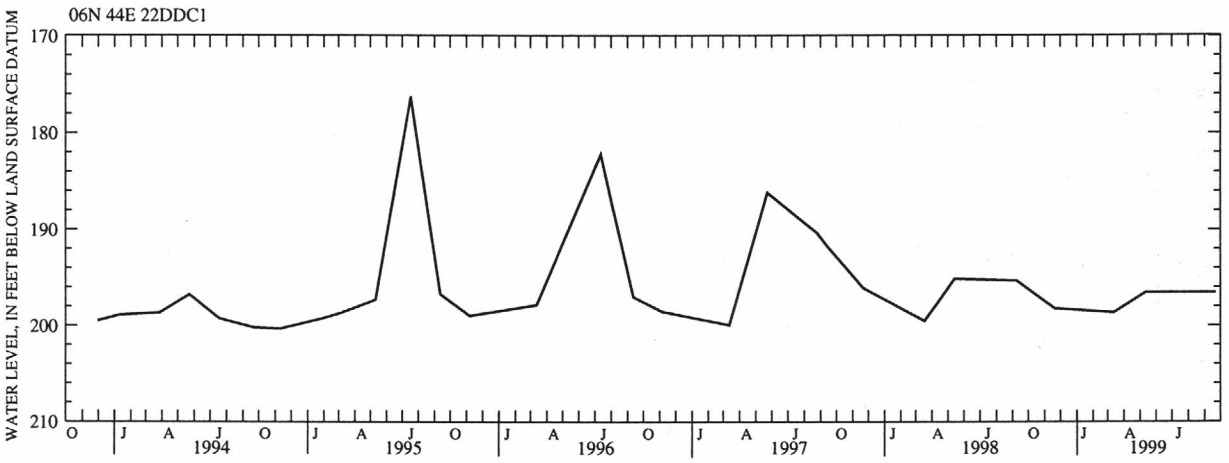
WELL NAME 06N 44E 22DDC1 SITE NUMBER 434936111143601

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 IN, DEPTH 257.5 FT, CASED TO 242 FT. LATITUDE 43°49'36", LONGITUDE 111°14'36". LSD 6,027.70 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 1.65 FT ABOVE LSD (SINCE JUL 18, 1958).

RECORDS AVAILABLE 1958 TO CURRENT YEAR.
HIGHEST WATER LEVEL 176.24 FEET BELOW LAND SURFACE DATUM JUL 17, 1995.
LOWEST WATER LEVEL 203.14 FEET BELOW LAND SURFACE DATUM mar 10, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 198.26 MAR 12 198.69 MAY 13 196.56 SEP 22 196.58



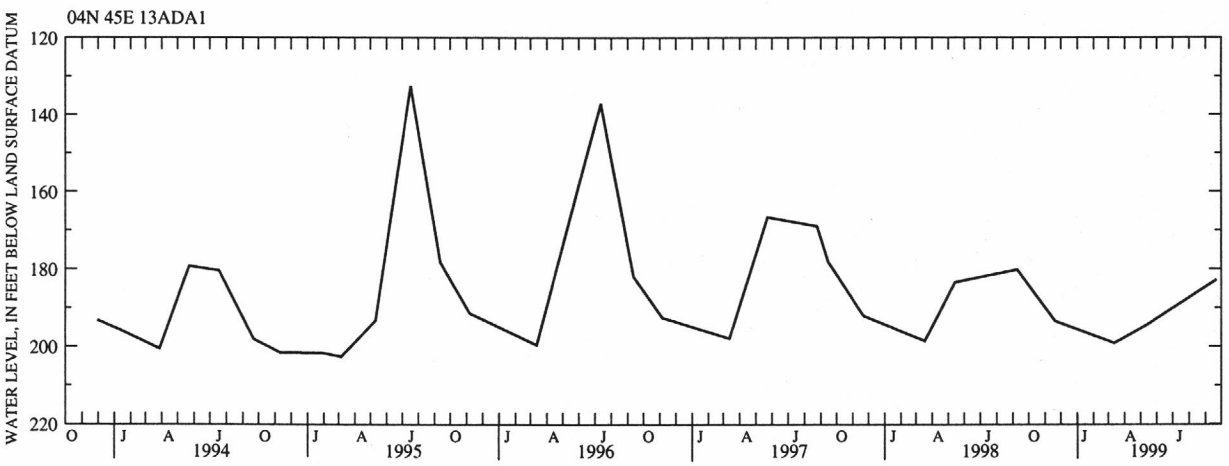
WELL NAME 04N 45E 13ADA1 SITE NUMBER 434032111045001

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 16 IN, DEPTH 304 FT, CASED TO 301 FT, PERFORATED 230-240 FT, 255-295 FT. LATITUDE 43°40'32", LONGITUDE 111°04'50". LSD 6,275.39 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUL 24, 1959 TO NOV 24, 1971. RECORDER INSTALLED JUN 06, 1977 TO JUL 14, 1986. MP NO. 3 EDGE OF CASING EAST SIDE, 1.00 FT ABOVE LSD (SINCE JUL 25, 1959).

RECORDS AVAILABLE 1958 TO CURRENT YEAR.
HIGHEST WATER LEVEL 122.79 FEET BELOW LAND SURFACE DATUM JUN 30, 1971.
LOWEST WATER LEVEL 203.52 FEET BELOW LAND SURFACE DATUM MAR 29, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20 193.45 MAR 12 199.10 MAY 13 194.49 SEP 22 182.79



WELL NAME 06S 13E 18ABC1 SITE NUMBER 425421114572901

DRILLED USED ARTESIAN WELL IN IDAVADA VOLCANICS, DIAM 12 TO 10 IN, DEPTH 2,005 FT, 8-IN CASING TO 850 FT. LATITUDE 42°54'21", LONGITUDE 114°57'29". LSD ABOUT 2,830 FT ABOVE SEA LEVEL. RECORDER INSTALLED SEP 24, 1985 TO MAR 15, 1990. MP NO. 2 CENTER OF 4-IN PRESSURE GAGE, PRESSURE GAGE, 2.17 FT ABOVE LSD (SINCE AUG 14, 1985).

RECORDS AVAILABLE 1983 TO CURRENT YEAR.
HIGHEST WATER LEVEL +74.6 FEET ABOVE LAND SURFACE DATUM SEP 08, 1986.
LOWEST WATER LEVEL +9.90 FEET ABOVE LAND SURFACE DATUM JAN 04, FEB 21, 1995.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 19	+16.96	DEC 16	+16.14	FEB 10	+16.70	APR 19	+17.75	JUN 16	+16.65	AUG 12	+15.90
NOV 23	+16.66	JAN 11	+16.81	MAR 22	+16.55	MAY 14	+16.88	JUL 21	+16.00	SEP 21	+14.30

WELL NAME 08S 12E 24CCC1 SITE NUMBER 424239115001801

FORMERLY SITE NUMBER 424243115002401. DRILLED IRRIGATION WATER-TABLE WELL IN BANBURY FORMATION, DIAM 12 IN, DEPTH 500 FT, CASED TO 46 FT. LATITUDE 42°42'39", LONGITUDE 115°00'18". LSD ABOUT 3,470 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE INSIDE PUMPBASE SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE JUN 03, 1968).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 193.94 FEET BELOW LAND SURFACE DATUM MAR 05, 1997.
LOWEST WATER LEVEL 294.64 FEET BELOW LAND SURFACE DATUM OCT 21, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 22	194.47	SEP 27	194.69

WELL NAME 08S 13E 23CCD1 SITE NUMBER 424242114541601

DRILLED DOMESTIC WATER-TABLE WELL IN BANBURY FORMATION, DIAM 6 IN, DEPTH 100 FT, CASED TO 50 FT. LATITUDE 42°42'42", LONGITUDE 114°54'16". LSD ABOUT 3,390 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 0.80 FT ABOVE LSD (SINCE FEB 16, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 65.27 FEET BELOW LAND SURFACE DATUM NOV 12, 1975.
LOWEST WATER LEVEL 73.34 FEET BELOW LAND SURFACE DATUM AUG 12, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20	68.66	JAN 12	69.06	MAR 22	69.88	MAY 25	70.50	JUL 21	70.32	SEP 21	69.60

WELL NAME 08S 13E 26AAD1 SITE NUMBER 424231114531701

DRILLED IRRIGATION WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 20 TO 12 IN, DEPTH 1,553 FT, 18-IN TO 19 FT. LATITUDE 42°42'31", LONGITUDE 114°53'17". LSD ABOUT 3,330 FT ABOVE SEA LEVEL. MP NO. 1 TOP LIP OF 3-IN ACCESS PIPE, 0.35 FT ABOVE LSD (SINCE NOV 11, 1985).

RECORDS AVAILABLE 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 75.54 FEET BELOW LAND SURFACE DATUM OCT 24, 1991.
LOWEST WATER LEVEL 184.07 FEET BELOW LAND SURFACE DATUM OCT 17, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20	86.66	JAN 12	84.21	MAR 22	84.63	MAY 25	85.11	JUL 21	85.19	SEP 21	84.25

WELL NAME 08S 14E 30DDB1 SITE NUMBER 424156114511401

DRILLED GEOTHERMAL ARTESIAN WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 8 IN, DEPTH 480 FT, CASED TO 204 FT. LATITUDE 42°41'56", LONGITUDE 114°51'14". LSD ABOUT 2,910 FT ABOVE SEA LEVEL. MP NO. 3 CENTER OF 4-IN PRESSURE GAGE, 3.16 FT ABOVE LSD (SINCE JUL 18, 1986).

RECORDS AVAILABLE 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL +186.80 FEET ABOVE LAND SURFACE DATUM SEP 10, 1986.
LOWEST WATER LEVEL +149.23 FEET ABOVE LAND SURFACE DATUM JAN 12, 1999.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 19	+158.51	DEC 16	+148.69	FEB 10	+153.77	APR 26	+155.62	JUN 14	+167.17	AUG 12	+171.79
NOV 20	+155.62	JAN 12	+148.23	MAR 23	+153.89	MAY 14	+159.32	JUL 21	+169.48	SEP 21	+171.79

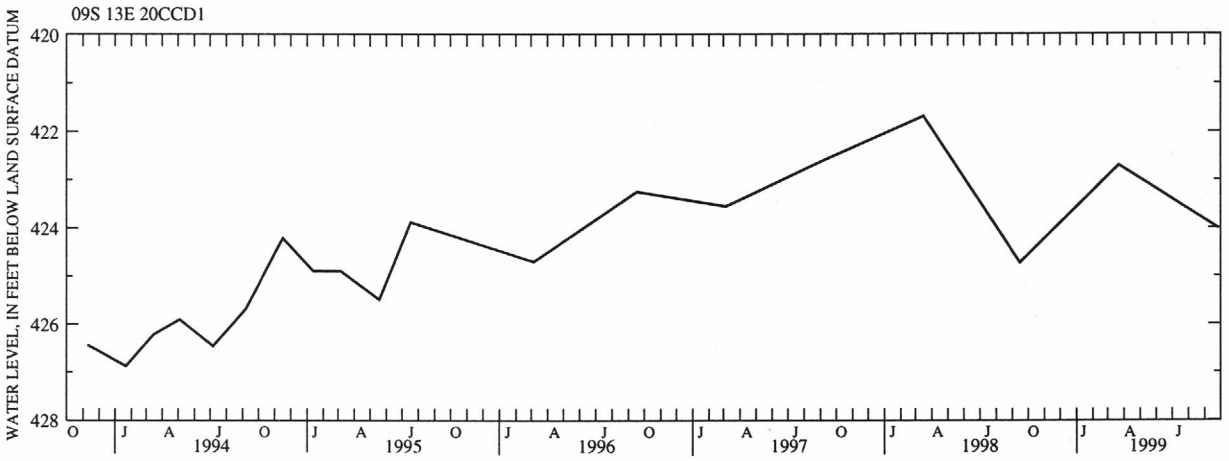
WELL NAME 09S 13E 20CCD1 SITE NUMBER 423722114574801

FORMERLY SITE NUMBER 423724114572101. DRILLED IRRIGATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 20 IN, DEPTH 920 FT, CASED TO 165 FT. LATITUDE 42°37'22", LONGITUDE 114°57'48". LSD ABOUT 3,805 FT ABOVE SEA LEVEL. JUN 17, 1968, WELL DEPTH SOUNDED AT 790.4 FT. RECORDER INSTALLED JUN 04, 1968 TO AUG 10, 1971. MP NO. 1 EDGE OF CASING EAST SIDE, 0.70 FT ABOVE LSD (SINCE FEB 16, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 412.79 FEET BELOW LAND SURFACE DATUM MAR 22, 1999.
LOWEST WATER LEVEL 454.79 FEET BELOW LAND SURFACE DATUM SEP 21, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 22 412.70 SEP 27 424.01



WELL NAME 09S 14E 04BBD1 SITE NUMBER 424045114494901

DRILLED GEOTHERMAL ARTESIAN WELL IN IDAVADA VOLCANICS, DIAM 8 TO 6 IN, DEPTH 700 FT, 8-IN CASING TO 95 FT, 6-IN CASING 0-215 FT. LATITUDE 42°40'45", LONGITUDE 114°49'38". LSD ABOUT 2,938 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF PRESSURE GAGE, 3.05 FT ABOVE LSD (SINCE JUL 23, 1979).

RECORDS AVAILABLE 1979 TO CURRENT YEAR.
HIGHEST WATER LEVEL +164.75 FEET ABOVE LAND SURFACE DATUM JUL 23, 1979.
LOWEST WATER LEVEL +30.08 FEET ABOVE LAND SURFACE DATUM JAN 09, 1995.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 23 +70.96 JAN 12 +64.96 MAR 23 +70.27 MAY 14 +74.89 JUL 21 +93.14 SEP 21 +56.18

WELL NAME 09S 14E 13DDD1 SITE NUMBER 423814114450901

DRILLED IRRIGATION WATER-TABLE WELL IN BANBURY FORMATION, DIAM 8 TO 6 IN, DEPTH 900 FT, 8-IN CASING TO 31 FT, 6-IN CASING 65-425 FT. LATITUDE 42°38'14", LONGITUDE 114°45'09". LSD ABOUT 3,514 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE SOUTH SIDE, 0.65 FT ABOVE LSD (SINCE AUG 12, 1985).

RECORDS AVAILABLE 1979, 1981-1982, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 6.19 FEET BELOW LAND SURFACE DATUM MAR 10, 1987.
LOWEST WATER LEVEL 76.88 FEET BELOW LAND SURFACE DATUM MAY 13, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 19	28.33	DEC 16	22.93	FEB 16	21.24	APR 26	77.38P	JUN 10	81.33P	AUG 09	44.31
NOV 23	23.64	JAN 12	21.96	MAR 23	20.88	MAY 13	76.88	JUL 14	60.60	SEP 22	49.15P

WELL NAME 09S 16E 20ADD1 SITE NUMBER 423748114353901

DRILLED OBSERVATION ARTESIAN WELL IN IDAVADA VOLCANICS, DIAM 12 TO 5 IN, DEPTH 1,247 FT, 10-IN CASING TO 102 FT, 6-IN CASING 0-715 FT. LATITUDE 42°37'48", LONGITUDE 114°35'39". LSD ABOUT 3,487 FT ABOVE SEA LEVEL. RECORDER INSTALLED DEC 19, 1984. MP NO. 1 CENTER OF PRESSURE GAGE, 2.96 FT ABOVE LSD (SINCE SEP 04, 1994).

RECORDS AVAILABLE 1984 TO CURRENT YEAR.
HIGHEST WATER LEVEL +210.98 FEET ABOVE LAND SURFACE DATUM SEP 14, 1984.
LOWEST WATER LEVEL +166.5 FEET ABOVE LAND SURFACE DATUM MAR 23, 1998.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 05 +167.9	OCT 31 +167.2	NOV 25 +167.2	JAN 13 +167.66	MAY 20 +169.51
10 +167.8	NOV 05 +167.6	30 +167.3	29 +167.20	JUN 17 +169.05
15 +167.5	10 +167.4	DEC 05 +167.2	FEB 16 +167.89	JUL 22 +169.28
20 +167.1	15 +167.3	17 +169.05	MAR 24 +167.89	AUG 24 +169.28
25 +167.3	20 +167.2	23 +168.12	APR 26 +169.05	SEP 22 +169.28

WELL NAME 09S 16E 21DCD1 SITE NUMBER 423722114345101

FORMERLY SITE NUMBER 423723114345001. DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 75 FT, CASED TO 28.5 FT. LATITUDE 42°37'22", LONGITUDE 114°34'51". LSD ABOUT 3,545 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 1-IN ACCESS HOLE, 0.90 FT ABOVE LSD (SINCE MAR 17, 1980).

RECORDS AVAILABLE 1980, 1982, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 11.54 FEET BELOW LAND SURFACE DATUM SEP 19, 1991.
LOWEST WATER LEVEL 17.86 FEET BELOW LAND SURFACE DATUM APR 17, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04	12.94	JAN 13	14.68	MAR 24	15.97	MAY 12	16.65	JUL 20	14.57	SEP 22	12.59

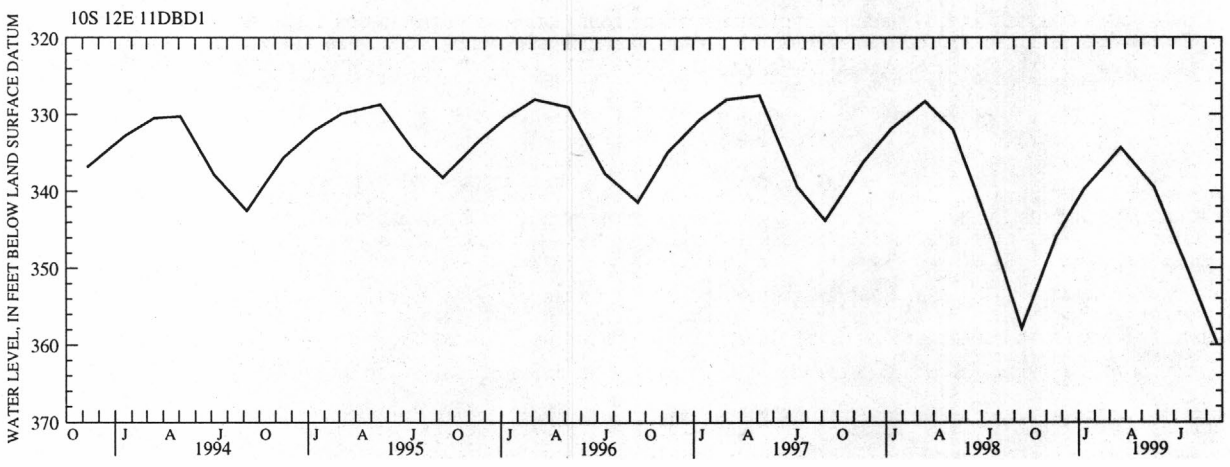
WELL NAME 10S 12E 11DBD1 SITE NUMBER 423406115003401

DRILLED UNUSED IRRIGATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 24 IN, DEPTH 687.9 FT, CASED TO 6 FT. LATITUDE 42°34'06", LONGITUDE 115°00'34". LSD 3,750 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTHEAST SIDE, 0.50 FT ABOVE LSD (SINCE AUG 02, 1962).

RECORDS AVAILABLE 1962 TO CURRENT YEAR.
HIGHEST WATER LEVEL 326.32 FEET BELOW LAND SURFACE DATUM AUG 02, 1962.
LOWEST WATER LEVEL 429.12 FEET BELOW LAND SURFACE DATUM SEP 21, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20	345.88	JAN 12	339.77	MAR 23	334.40	MAY 25	339.47	JUL 20	348.90	SEP 21	359.86



WELL NAME 10S 13E 02DCD1 SITE NUMBER 423444114533201

DRILLED UNUSED WATER-TABLE WELL IN BANBURY FORMATION, DIAM 16 TO 12 IN, DEPTH 1,665 FT, 16-IN CASING TO 39 FT, 12-IN CASING TO 512 FT. LATITUDE 42°34'44", LONGITUDE 114°53'32". LSD ABOUT 3,725 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF CASING FLANGE NORTHEAST SIDE, 1.50 FT ABOVE LSD (SINCE FEB 18, 1982).

RECORDS AVAILABLE 1982, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 247.23 FEET BELOW LAND SURFACE DATUM NOV 21, 1997.
LOWEST WATER LEVEL 262.27 FEET BELOW LAND SURFACE DATUM MAY 17, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 20	248.99	JAN 12	251.90	MAR 23	256.12	MAY 13	257.90	JUL 20	259.10	SEP 21	251.59

WELL NAME 10S 16E 07DAC1 SITE NUMBER 423406114370301

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 TO 6 IN, DEPTH 494 FT, 16-IN CASING TO 20 FT, 12-IN CASING 0-102 FT. LATITUDE 42°34'06", LONGITUDE 114°37'03". LSD ABOUT 3,780 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF 1/4-IN ACCESS HOLE, 3.02 FT ABOVE LSD (SINCE JUL 17, 1985).

RECORDS AVAILABLE 1982 TO CURRENT YEAR.
HIGHEST WATER LEVEL 23.29 FEET BELOW LAND SURFACE DATUM AUG 07, 1985.
LOWEST WATER LEVEL 37.27 FEET BELOW LAND SURFACE DATUM APR 15, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04	28.28	MAR 23	36.90	MAY 12	34.51	SEP 22	25.68

WELL NAME 10S 17E 14CCD1 SITE NUMBER 423255114260601

FORMERLY SITE NUMBER 423255114260101, WELL NAME 10S 17E 14CD1. DRILLED IRRIGATION WATER-TABLE WELL IN BANBURY FORMATION, DIAM 8 IN, DEPTH 1,154 FT, CASED TO 575 FT. LATITUDE 42°32'55", LONGITUDE 114°26'06". LSD ABOUT 3,788 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 3/4-IN PIPE COUPLING NORTHEAST SIDE AT LSD (SINCE MAR 28, 1979).

RECORDS AVAILABLE 1977-1982, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 47.73 FEET BELOW LAND SURFACE DATUM JAN 17, 1990.
LOWEST WATER LEVEL 52.98 FEET BELOW LAND SURFACE DATUM MAY 14, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 20	50.39	DEC 18	50.69	FEB 17	51.70	APR 26	86.11P	JUL 19	68.84P	SEP 24	50.16
NOV 23	50.53	JAN 15	51.22	MAR 25	51.92	MAY 14	52.98	AUG 12	50.59		

WELL NAME 10S 18E 20DDD1 SITE NUMBER 423207114215301

DRILLED PUBLIC SUPPLY WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 1,200 FT, 8-IN CASING TO 735 FT, 6-IN CASING 735-1,110 FT, PERFORATED 300-1,110 FT. LATITUDE 42°32'07", LONGITUDE 114°21'53". LSD ABOUT 3,919 FT ABOVE SEA LEVEL. RECORDER INSTALLED AUG 13, 1951 TO FEB 12, 1952. MP NO. 7 TOP OF ACCESS HOLE NORTH SIDE, 1.04 FT ABOVE LSD (SINCE SEP 09, 1997).

RECORDS AVAILABLE 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 164.70 FEET BELOW LAND SURFACE DATUM SEP 14, 1972.
LOWEST WATER LEVEL 183.15 FEET BELOW LAND SURFACE DATUM JUL 23, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 24	181.76	SEP 24	179.61

WELL NAME 11S 13E 11BDA1 SITE NUMBER 422912114535001

DRILLED IRRIGATION WATER-TABLE WELL IN BANBURY FORMATION, DIAM 18 TO 16 IN, DEPTH 420 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°29'12", LONGITUDE 114°53'50". LSD ABOUT 3,981 FT ABOVE SEA LEVEL. MP NO. 3 LOWER LIP OF PIPE IN PUMPBASE SOUTHWEST SIDE, 0.40 FT ABOVE LSD (SINCE OCT 31, 1995).

RECORDS AVAILABLE 1959, 1995 TO CURRENT YEAR.
HIGHEST WATER LEVEL 178.64 FEET BELOW LAND SURFACE DATUM OCT 22, 1997.
LOWEST WATER LEVEL 211.25 FEET BELOW LAND SURFACE DATUM AUG 12, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 21	183.29	DEC 17	192.08	FEB 16	192.29	APR 26	200.34	JUN 10	204.65	AUG 12	211.25
NOV 20	185.13	JAN 12	189.13	MAR 23	195.36	MAY 13	200.96	JUL 20	207.76P	SEP 21	185.30

WELL NAME 11S 15E 02BBB1 SITE NUMBER 423018114401701

DRILLED UNUSED WATER-TABLE WELL IN BANBURY FORMATION, DIAM 16 IN, DEPTH 1,010 FT, CASED TO 137 FT. LATITUDE 42°30'18", LONGITUDE 114°40'17". LSD ABOUT 4,142 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 1 1/4-IN PIPE WEST SIDE, 1.21 FT ABOVE LSD (SINCE JUL 02, 1985).

RECORDS AVAILABLE 1980-1982, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 219.60 FEET BELOW LAND SURFACE DATUM NOV 04, 1998.
LOWEST WATER LEVEL 232.94 FEET BELOW LAND SURFACE DATUM MAY 31, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04	219.60	MAR 23	224.77	MAY 13	225.64	SEP 22	223.04

WELL NAME 11S 15E 07ACB1 SITE NUMBER 422913114442601

DRILLED OBSERVATION WATER-TABLE WELL IN BANBURY FORMATION, DIAM 6 IN, DEPTH 347 FT, CASED TO 275 FT, PERFORATED 225-275 FT. LATITUDE 42°29'13", LONGITUDE 114°44'26". LSD 4,108.14 FT ABOVE SEA LEVEL. MP NO. 2 TOP EDGE OF CASING CAP, 1.05 FT ABOVE LSD (SINCE NOV 15, 1960).

RECORDS AVAILABLE 1960 TO CURRENT YEAR.
HIGHEST WATER LEVEL 219.44 FEET BELOW LAND SURFACE DATUM SEP 15, 1987.
LOWEST WATER LEVEL 237.89 FEET BELOW LAND SURFACE DATUM MAY 22, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 23 229.19 SEP 22 226.12

WELL NAME 11S 17E 25DDD2 SITE NUMBER 422600114240901

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 351.6 FT, CASED TO 175 FT, PERFORATED 145-175 FT. LATITUDE 42°26'00", LONGITUDE 114°24'09". LSD 4,138.54 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 27, 1960 TO AUG 11, 1971. MP NO. 3 EDGE OF CASING NORTH SIDE, 1.50 FT ABOVE LSD (SINCE AUG 21, 1961).

RECORDS AVAILABLE 1960 TO CURRENT YEAR.
HIGHEST WATER LEVEL 71.65 FEET BELOW LAND SURFACE DATUM SEP 10, 1985.
LOWEST WATER LEVEL 97.23 FEET BELOW LAND SURFACE DATUM APR 06, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04 80.42 MAR 25 89.29 MAY 26 80.80 SEP 24 79.66

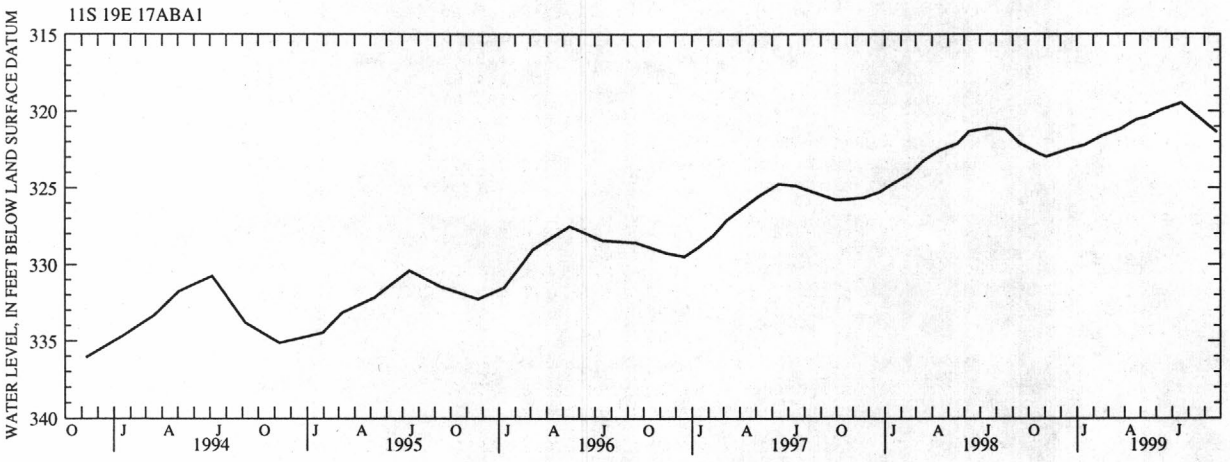
WELL NAME 11S 19E 17ABA1 SITE NUMBER 422830114151401

FORMERLY SITE NUMBER 422829114150801, WELL NAME 11S 19E 17AAB1. DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 14 IN, DEPTH 860 FT, CASED TO 16 FT. LATITUDE 42°28'30", LONGITUDE 114°15'14". LSD ABOUT 4,229 FT ABOVE SEA LEVEL. JUL 17, 1968, WELL HAD FILLED IN TO A DEPTH OF 834 FT. RECORDER INSTALLED AUG 17, 1961 TO AUG 18, 1986. MP NO. 4 EDGE OF CASING NORTHEAST SIDE, 0.40 FT ABOVE LSD (SINCE JUL 26, 1961).

RECORDS AVAILABLE 1959, 1961 TO CURRENT YEAR.
HIGHEST WATER LEVEL 315.93 FEET BELOW LAND SURFACE DATUM JUN 16, 1974.
LOWEST WATER LEVEL 336.74 FEET BELOW LAND SURFACE DATUM JAN 04, 1993.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 21 322.77 DEC 17 322.47 FEB 17 321.61 APR 23 320.56 JUN 11 319.93 SEP 24 321.37
NOV 04 322.96 JAN 15 322.23 MAR 24 321.18 MAY 14 320.38 JUL 19 319.46



WELL NAME 11S 19E 23CDA1 SITE NUMBER 422654114115901

DRILLED UNUSED WATER-TABLE WELL IN BANBURY FORMATION, DIAM 18 IN, DEPTH AND CASING INFORMATION NOT AVAILABLE. LATITUDE 42°26'54", LONGITUDE 114°11'59". LSD ABOUT 4,190 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUL 08, 1976 TO JAN 27, 1978. WATER LEVELS AFFECTED BY ARTIFICIAL GROUND-WATER RECHARGE PROJECT. MP NO. 2 TOP OF 7/16-IN ACCESS HOLE NORTH SIDE, 0.65 FT ABOVE LSD (SINCE APR 14, 1986).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 176.25 FEET BELOW LAND SURFACE DATUM MAY 09, 1995.
LOWEST WATER LEVEL 351.43 FEET BELOW LAND SURFACE DATUM AUG 25, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 24 211.04 JAN 20 201.72 MAY 24 217.22 JUL 20 279.16 SEP 21 266.81

WELL NAME 11S 19E 24CCA1 SITE NUMBER 422655114111101

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 15 TO 10 IN, DEPTH 542 FT, 12-IN CASING TO 135 FT. LATITUDE 42°26'55", LONGITUDE 114°11'11". LSD 4,176.67 FT ABOVE SEA LEVEL. WATER LEVELS AFFECTED BY ARTIFICIAL GROUND-WATER RECHARGE PROJECT. RECORDER INSTALLED MAR 19, 1992. MP NO. 4 TOP OF CONCRETE PIPE, 0.40 FT ABOVE LSD (SINCE MAR 19, 1992).

RECORDS AVAILABLE 1951, 1976, 1992 TO CURRENT YEAR.
HIGHEST WATER LEVEL 56.88 FEET BELOW LAND SURFACE DATUM NOV 10, 1976.
LOWEST WATER LEVEL 128.47 FEET BELOW LAND SURFACE DATUM AUG 20, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 01	97.86	DEC 01	94.69	JAN 31	94.18	APR 30	93.14	JUN 25	92.69	AUG 25	98.21
05	97.80	05	94.58	FEB 05	94.28	MAY 05	92.88	30	93.40	31	97.93
10	97.26	10	95.12	10	94.26	10	92.45	JUL 05	94.26	SEP 05	97.43
15	96.80	15	95.14	15	94.48	15	92.03	10	94.83	10	97.05
20	97.14	20	94.55	20	94.60	20	91.86	15	95.10	15	96.99
25	96.31	25	94.85	25	94.08	25	91.94	17	95.34	20	96.75
31	95.86	31	94.34	28	94.36	31	92.02	25	96.42	25	96.39
NOV 05	95.33	JAN 05	94.74	MAR 05	94.35	JUN 01	91.75	31	97.01	30	96.27
10	95.23	10	94.71	10	94.21	05	91.87	AUG 05	97.48		
15	95.10	15	94.45	16	93.95	10	91.96	10	97.66		
20	95.12	20	94.07	APR 21	93.67	15	92.05	15	98.04		
25	94.95	25	94.27	25	93.39	20	93.32	20	98.13		

WELL NAME 11S 19E 26ADD3 SITE NUMBER 422621114112602

FORMERLY SITE NUMBER 422621114112601 AND WELL NAME 11S 19E 26ADD2. DRILLED UNUSED ARTESIAN WELL IN IDAVADA VOLCANICS. DIAMETER UNKNOWN, JAN 1994, WELL WAS CLEANED AND DEEPENED TO 835 FT, 6-IN CASING 0-784 FT. LATITUDE 42°26'21", LONGITUDE 114°11'26". LSD 4,195.57 FT ABOVE SEA LEVEL. WATER LEVELS AFFECTED BY ARTIFICAL GROUND-WATER RECHARGE PROJECT. RECORDER INSTALLED FEB 16, 1994. MP NO. 3 EDGE OF CASING EAST SIDE, 1.20 FT ABOVE LSD (SINCE FEB 15, 1994).

RECORDS AVAILABLE 1994 TO CURRENT YEAR.
HIGHEST WATER LEVEL 162.81 FEET BELOW LAND SURFACE DATUM APR 28, 1997.
LOWEST WATER LEVEL 335.92 FEET BELOW LAND SURFACE DATUM JUL 29, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 05	219.54	DEC 15	204.75	FEB 15	200.65	APR 15	195.43	JUN 20	279.54	AUG 25	300.97
10	207.58	20	204.09	20	200.45	20	193.78	25	298.64	31	281.56
15	196.23	25	203.94	25	200.02	25	192.17	30	309.08	SEP 05	235.48
20	188.91	31	203.26	28	200.03	30	177.02	JUL 05	316.71	10	227.73
25	183.81	JAN 05	203.17	MAR 05	199.71	MAY 05	165.65	12	309.89	15	253.86
31	183.47	10	202.86	10	199.35	10	159.76	15	313.43	20	272.46
NOV 18	206.39	15	202.47	15	199.06	10	159.89	AUG 01	313.65	25	265.34
20	206.51	20	201.90	20	198.90	15	164.03	05	318.93	30	235.82
25	206.09	25	201.72	25	198.43	20	183.00	06	320.52		
30	205.59	31	201.35	31	197.98	JUN 08	228.45	10	317.40		
DEC 05	205.20	FEB 05	201.08	APR 05	197.69	10	233.55	15	315.94		
10	205.16	10	200.61	10	196.70	15	255.07	20	304.04		

WELL NAME 11S 19E 30ADD1 SITE NUMBER 422621114160501

DRILLED UNUSED WATER-TABLE WELL IN BANBURY FORMATION, DIAM, DEPTH, AND CASING INFORMATION NOT AVAILABLE. LATITUDE 42°26'21", LONGITUDE 114°16'05". LSD ABOUT 4,150 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 26, 1976 TO APR 22, 1982. CURRENTLY MEASURED BY U.S. BUREAU OF RECLAMATION. MP NO. 3 TOP OF SHELTER SOUTH SIDE, 3.51 FT ABOVE LSD (SINCE MAY 26, 1976).

RECORDS AVAILABLE 1952, 1954, 1961, 1963, 1966-1967, 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 69.10 FEET BELOW LAND SURFACE DATUM MAY 07, 1952.
LOWEST WATER LEVEL 124.02 FEET BELOW LAND SURFACE DATUM AUG 20, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 24	98.63	JAN 20	97.08	MAR 22	96.81	MAY 24	96.38	JUL 20	98.63	SEP 21	101.06

WELL NAME 11S 19E 31ADD2 SITE NUMBER 422529114160702

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM, DEPTH, AND CASING INFORMATION NOT AVAILABLE. LATITUDE 42°25'29", LONGITUDE 114°16'07". LSD ABOUT 4,198 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 1.50 FT ABOVE LSD (SINCE SEP 16, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 218.99 FEET BELOW LAND SURFACE DATUM MAR 24, 1999.
LOWEST WATER LEVEL 259.15 FEET BELOW LAND SURFACE DATUM SEP 16, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

MAR 24	218.99	SEP 22	253.38

WELL NAME 11S 19E 36CDA1 SITE NUMBER 422515114104901

DRILLED OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 179 FT, 8-IN CASING TO 20 FT, 6-IN CASING 20-179 FT, PERFORATED 121-171 FT. LATITUDE 42°25'15", LONGITUDE 114°10'49". LSD ABOUT 4,227 FT ABOVE SEA LEVEL. WATER LEVELS AFFECTED BY ARTIFICIAL GROUND-WATER RECHARGE PROJECT. RECORDER INSTALLED FEB 17, 1994. MP NO. 1 EDGE OF CASING EAST SIDE, 0.90 FT ABOVE LSD (SINCE FEB 17, 1994).

RECORDS AVAILABLE 1994 TO CURRENT YEAR.
HIGHEST WATER LEVEL 90.95 FEET BELOW LAND SURFACE DATUM APR 20, 1995.
LOWEST WATER LEVEL 133.61 FEET BELOW LAND SURFACE DATUM JAN 15, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 05	110.86	NOV 25	112.33	JAN 15	115.52	MAR 25	105.08	MAY 20	98.35	AUG 20	110.23
10	110.79	30	112.49	20	115.73	31	99.57	25	102.12	25	110.55
15	110.79	DEC 05	112.84	25	116.04	APR 05	103.00	31	104.93	31	110.94
20	111.05	10	113.16	31	116.39	20	108.28	JUN 05	100.99	SEP 05	111.07
25	110.06	15	113.50	FEB 05	116.82	25	103.47	10	96.37	10	111.20
31	111.31	20	113.68	08	116.93	30	100.75	15	100.19	15	111.38
NOV 05	111.28	25	114.05	09	116.91	MAY 05	98.90	19	102.35	20	111.65
10	111.63	31	114.37	MAR 11	116.94	10	96.38	JUL 12	107.11	25	111.63
15	111.76	JAN 05	114.83	15	109.27	14	95.14	AUG 10	109.53	30	111.66
20	111.99	10	115.22	20	107.42	15	95.19	15	110.00		

WELL NAME 11S 20E 31CDA2 SITE NUMBER 422517114092802

FORMERLY SITE NUMBER 422517114092801 AND WELL NAME 11S 20E 31CDA1. DRILLED OBSERVATION ARTESIAN WELL IN PALEOZOIC CARBONATE ROCKS, FEB 1995, WELL CLEANED AND DEEPENED TO 650 FT, 6-IN CASING TO 290 FT. LATITUDE 42°25'17", LONGITUDE 114°09'28". LSD ABOUT 4,225 FT ABOVE SEA LEVEL. WATER LEVELS AFFECTED BY ARTIFICIAL GROUND-WATER RECHARGE PROJECT. RECORDER INSTALLED MAR 31, 1995. MP NO. 2 EDGE OF 1/2-IN GALVANIZED PIPE NIPPLE, 0.90 FT ABOVE LSD (SINCE FEB 15, 1994).

RECORDS AVAILABLE 1995 TO CURRENT YEAR.
HIGHEST WATER LEVEL 168.70 FEET BELOW LAND SURFACE DATUM JUN 15, 1999.
LOWEST WATER LEVEL 196.58 FEET BELOW LAND SURFACE DATUM SEP 28, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 05	184.48	DEC 05	181.24	FEB 10	175.70	APR 15	171.75	JUN 15	168.74	AUG 20	179.82
10	184.48	10	181.00	15	175.40	20	171.28	20	169.02	25	180.44
12	184.78	15	180.58	20	175.09	25	170.99	25	169.53	31	181.36
15	184.47	20	179.93	25	174.53	30	170.70	30	169.94	SEP 05	181.89
20	184.39	25	179.61	28	174.48	MAY 05	170.42	JUL 05	170.79	10	182.27
25	184.05	31	178.96	MAR 05	174.16	10	170.12	10	171.54	15	182.85
31	183.90	JAN 05	178.71	10	173.81	15	169.88	15	172.33	20	183.40
NOV 05	183.51	10	178.32	15	173.41	20	169.40	20	173.19	25	183.34
10	183.28	15	177.86	20	173.20	25	169.15	25	174.39	30	183.42
15	182.89	20	177.29	25	172.80	31	168.94	31	175.63		
20	182.55	25	176.96	31	172.37	JUN 05	169.02	AUG 05	176.64		
25	182.12	31	176.45	APR 05	172.11	10	168.75	10	177.71		
30	181.60	FEB 05	176.12	10	171.90	15	168.70	15	178.87		

WELL NAME 11S 20E 33DAD1 SITE NUMBER 422518114062701

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 14 TO 6 IN, DEPTH 680 FT, 14-IN CASING TO 40 FT, PERFORATED 8-IN LINER 12-509 FT, PERFORATED 6-IN LINER 501-638 FT. DEC 13, 1989, WELL DEPTH SOUNDED AT 384 FT AND ALL CASING REMOVED. LATITUDE 42°25'18", LONGITUDE 114°06'27". LSD 4,245.03 FT ABOVE SEA LEVEL. WATER LEVELS AFFECTED BY ARTIFICIAL GROUND-WATER RECHARGE PROJECT. RECORDER INSTALLED FEB 15, 1994. MP NO. 4 EDGE OF 24-IN STAND PIPE SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE FEB 15, 1994).

RECORDS AVAILABLE 1951 TO CURRENT YEAR.
HIGHEST WATER LEVEL 37.82 FEET BELOW LAND SURFACE DATUM DEC 11, 1951.
LOWEST WATER LEVEL 251.17 FEET BELOW LAND SURFACE DATUM SEP 18, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 05	198.06	NOV 30	200.08	JAN 31	201.26	MAR 31	201.05	MAY 31	201.17	AUG 10	203.20
10	197.97	DEC 05	200.27	FEB 05	201.35	APR 05	201.02	JUN 05	200.82	15	203.85
15	197.91	10	200.68	10	201.25	10	200.65	10	200.46	20	204.32
15	197.93	15	200.83	15	201.44	15	201.26	15	200.23	25	204.64
20	198.34	20	200.77	20	201.48	20	201.12	20	199.92	31	205.11
25	198.20	25	201.07	25	201.25	25	201.01	25	199.68	SEP 05	205.52
31	198.66	31	201.11	28	201.37	30	200.95	30	199.69	10	205.79
NOV 05	199.00	JAN 05	201.33	MAR 05	201.38	MAY 05	200.91	JUL 05	199.74	15	206.20
10	199.31	10	201.39	10	201.31	10	200.90	10	199.86	20	206.60
15	199.57	15	201.40	15	201.24	15	200.81	15	199.99	25	206.87
20	199.90	20	201.22	20	201.33	20	200.82	18	200.21	29	207.21
25	200.01	25	201.32	25	201.20	25	200.99	AUG 05	203.38	30	207.20

WELL NAME 13S 15E 01DAD1 SITE NUMBER 421916114380801

DRILLED UNUSED WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 12 IN, DEPTH 2,255 FT, 12-IN CASING TO 30 FT, 8-IN CASING 0-1,000 FT. LATITUDE 42°19'16", LONGITUDE 114°38'08". LSD 4,569 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 20, 1988. MP NO. 1 EDGE OF 8-IN CASING, 0.80 FT ABOVE LSD (SINCE JAN 18, 1982).

RECORDS AVAILABLE 1982 TO CURRENT YEAR.
HIGHEST WATER LEVEL 207.05 FEET BELOW LAND SURFACE DATUM MAY 14, 1999.
LOWEST WATER LEVEL 219.75 FEET BELOW LAND SURFACE DATUM SEP 15, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 05	211.45	DEC 05	209.09	MAR 10	207.82	MAY 10	207.30	JUL 05	209.86	AUG 25	211.53
10	210.93	10	209.21	15	207.65	14	207.05	10	210.83	31	211.73
15	210.75	15	209.10	20	207.73	15	207.30	15	211.32	SEP 05	211.78
20	210.71	JAN 15	208.28	25	207.57	20	207.27	20	211.81	15	211.45
25	210.22	20	208.02	31	207.45	25	207.68	21	211.81	16	211.52
31	210.20	25	208.08	APR 05	207.45	31	207.85	25	211.98	20	211.96
NOV 05	209.78	29	208.07	10	207.58	JUN 05	207.85	31	211.93	23	212.15
10	209.77	FEB 16	207.93	15	207.79	10	208.44	AUG 05	211.94	25	211.62
15	209.61	20	208.03	20	207.43	15	208.85	10	212.02	30	211.83
20	209.55	25	207.68	25	207.35	20	208.69	11	211.94		
25	209.39	28	207.88	30	207.40	25	208.86	15	211.83		
30	209.17	MAR 05	207.87	MAY 05	207.39	30	209.03	20	211.61		

WELL NAME 13S 16E 12DAA1 SITE NUMBER 421832114305601

DRILLED UNUSED ARTESIAN WELL IN PALEOZOIC CARBONATE ROCKS, DIAM 16 IN, DEPTH 702 FT, CASED TO 302 FT. LATITUDE 42°18'32", LONGITUDE 114°30'56". LSD ABOUT 4,742 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 19, 1988. MP NO. 3 TOP OF HOLE IN INSTRUMENT SHELF, 2.10 FT ABOVE LSD (SINCE APR 19, 1988).

RECORDS AVAILABLE 1979 TO CURRENT YEAR.
HIGHEST WATER LEVEL 122.94 FEET BELOW LAND SURFACE DATUM MAR 28, 1979.
LOWEST WATER LEVEL 185.34 FEET BELOW LAND SURFACE DATUM OCT 06, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 01	155.74	NOV 30	145.85	FEB 25	136.77	APR 25	131.77	JUN 20	138.23	AUG 11	153.44
05	153.98	DEC 05	145.27	28	136.73	30	132.41	25	138.17	15	153.38
10	152.72	10	144.89	MAR 05	136.33	MAY 05	131.68	30	138.97	20	151.93
15	151.81	15	144.35	10	135.83	08	131.29	JUL 05	141.83	25	150.93
20	151.17	JAN 15	140.87	15	135.27	10	132.75	10	143.78	31	152.28
25	150.24	20	140.21	20	135.00	15	133.40	15	144.44	SEP 05	153.05
31	149.54	25	139.77	25	134.46	20	133.62	20	147.18	10	152.64
NOV 05	149.59	31	139.16	31	133.87	25	133.97	22	148.05	15	153.48
10	148.43	FEB 05	138.79	APR 05	133.51	31	136.19	25	149.04	16	152.48
15	147.67	10	138.40	10	133.27	JUN 05	137.59	31	150.74	20	152.57
20	147.08	15	137.93	15	133.01	10	138.40	AUG 05	151.17	25	152.43
25	146.45	20	137.56	20	132.35	15	139.28	10	153.13	30	152.36

WELL NAME 14S 15E 16DDC1 SITE NUMBER 421206114414901

DRILLED IRRIGATION ARTESIAN GEOTHERMAL WELL IN IDAVADA VOLCANICS, DIAM 8 IN, DEPTH 1,890 FT, CASED TO 960 FT. LATITUDE 42°12'06", LONGITUDE 114°41'49". LSD ABOUT 4,938 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF CONCRETE SLAB, AT LSD (SINCE JUN 20, 1991).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.
HIGHEST WATER LEVEL +48.69 FEET ABOVE LAND SURFACE DATUM MAY 22, 1991.
LOWEST WATER LEVEL +21.04 FEET ABOVE LAND SURFACE DATUM JUL 21, 1999.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OCT 21	+36.25	DEC 17	+36.85	FEB 16	+37.05	APR 26	+37.34	JUN 17	+36.59	AUG 11	+33.26
NOV 04	+36.45	JAN 13	+36.75	MAR 23	+37.14	MAY 14	+37.34	JUL 21	+21.04	SEP 30	+36.14

TWIN FALLS COUNTY--continued

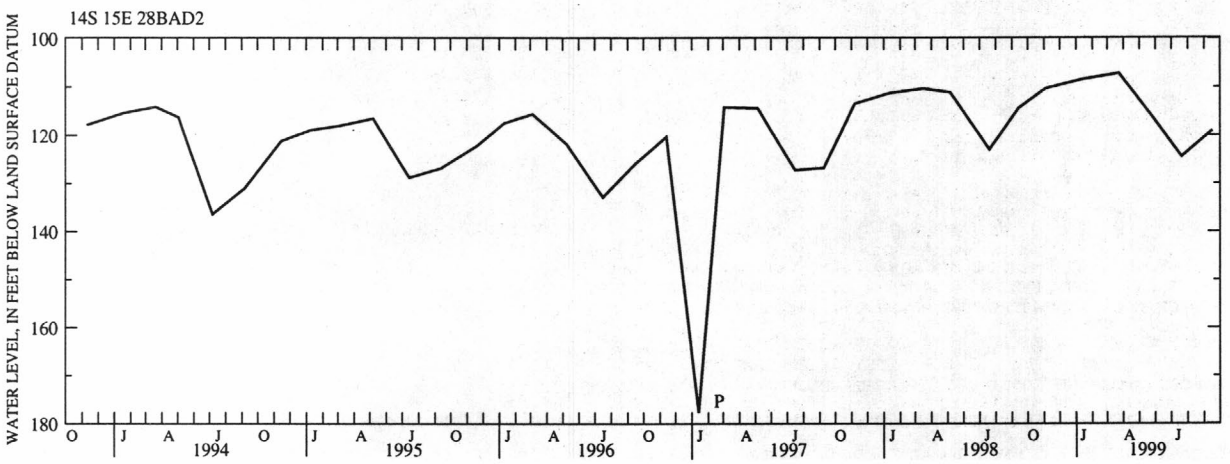
WELL NAME 14S 15E 28BAD2 SITE NUMBER 421100114421201

FORMERLY SITE NUMBER 421057114421101. DRILLED OBSERVATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 6 IN, DEPTH 455 FT, CASED TO 341 FT, PERFORATED 231-341 FT. LATITUDE 42°11'00", LONGITUDE 114°42'12". LSD 4,976.12 FT ABOVE SEA LEVEL. AUG 11, 1971, WELL DEPTH SOUNDED AT 420.4 FT. RECORDER INSTALLED APR 19, 1961 TO AUG 11, 1971. MP NO. 2 EDGE OF CASING WEST SIDE, 2.24 FT ABOVE LSD (SINCE JUL 07, 1994).

RECORDS AVAILABLE 1960 TO CURRENT YEAR.
HIGHEST WATER LEVEL 90.76 FEET BELOW LAND SURFACE DATUM NOV 17, 1965.
LOWEST WATER LEVEL 136.43 FEET BELOW LAND SURFACE DATUM JUL 07, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

NOV 04 110.37 JAN 13 108.50 MAR 23 107.22 MAY 25 116.10 JUL 21 124.47 SEP 16 119.10



QUALITY OF GROUND WATER

Local Identifier: Indicates location by township, range and section.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
				BANNOCK COUNTY					
05S 33E 36ADA1	425644112320701	09-02-99	1415	61.98	648	7.5	21.9	14.7	4.3
05S 34E 05DADD1	430043112294501	09-02-99	1230	38.35	566	7.6	16.9	13.1	2.7
05S 34E 11CCC1	430102112271901	09-09-99	1445	--	1070	7.4	21.7	14.6	3.2
06S 34E 07ADA2	425456112305502	08-31-99	1340	--	713	7.4	12.7	17.5	5.9
06S 34E 09BCB1	425456112294001	08-31-99	1210	63.57	952	7.4	11.5	14.9	5.0
06S 34E 10CCD1	425422112282001	08-31-99	1000	--	884	7.3	8.9	13.4	6.6
07S 35E 17DCC1	424818112231501	08-23-99	1440	--	824	7.3	21.0	12.1	5.7
07S 35E 18AAC1	424840112241701	08-23-99	1245	38.66	633	7.4	31.0	16.1	5.6
08S 36E 15CDC1	424312112132201	06-24-99	1405	40.02	489	7.5	26.0	14.0	.3
08S 36E 22BCD1	424242112142501	06-24-99	1835	--	470	7.3	27.0	14.9	.4
09S 36E 22CCC1	423705112142801	06-24-99	1610	19.14	328	7.6	28.0	13.5	.4
09S 38E 28CAC2	423615112011002	06-27-99	1520	26.49	782	7.3	22.0	14.0	7.2
10S 37E 17BDB1	423323112094601	06-30-99	1125	--	543	7.6	21.0	20.7	.0
12S 36E 01BCD1	422820112124501	06-28-99	1220	44.24	474	7.2	21.0	12.1	.2
12S 37E 08ABA1	422403112091701	06-28-99	1430	--	421	7.1	22.0	12.6	8.2
13S 38E 10BCA1	421803112003101	06-28-99	1620	6.85	7	7.2	25.0	13.3	.1
				BEAR LAKE COUNTY					
12S 44E 33DCC1	421944111184701	06-23-99	1540	5.42	616	7.2	21.0	8.3	7.2
14S 44E 12ACA1	421321111151501	06-23-99	1305	2.81	780	7.2	20.0	9.2	1.0
16S 43E 02DDB1	420340111232001	06-23-99	1025	26.78	598	7.4	17.5	10.9	2.3
				BINGHAM COUNTY					
01N 32E 27ABD1	432335112404801	07-26-99	1215	--	279	8.2	26.8	15.0	7.1
01N 33E 26CDC1	432257112331301	07-26-99	1400	--	538	8.0	28.0	11.9	6.6
01N 36E 36DAA1	432227112095101	07-29-99	0845	55.35	356	7.8	21.0	12.7	5.9
01N 37E 21CBC1	432319112071801	07-29-99	1040	99.46	537	7.7	26.8	13.2	6.6
01S 37E 21BBC1	431921112081801	07-29-99	1210	43.12	452	7.5	30.8	14.3	7.4
02S 35E 28BCDA1	431310112221301	07-28-99	1420	52.40	388	7.6	31.8	15.1	4.5
02S 36E 11CCC2	431522112130001	09-15-99	1115	--	--	--	--	--	--
02S 37E 07DCC1	431514112100701	07-15-99	1545	--	628	7.5	26.8	13.2	5.5
03S 31E 16CCB1	430930112505701	07-15-99	0955	--	311	8.0	16.8	13.7	7.9
03S 34E 34DDA1	430642112272301	07-29-99	1440	33.60	843	7.5	31.7	12.8	3.6
04S 30E 36BCA1	430200112540801	07-13-99	1110	--	379	7.9	26.5	14.6	7.8
04S 33E 07DCD1	430454112382001	07-13-99	1330	--	1080	7.5	27.5	10.8	8.2
04S 34E 15CDC1	430400112280801	09-01-99	1230	31.77	698	7.8	16.8	13.4	2.9
04S 34E 21CBB2	430332112293502	09-01-99	1420	21.10	563	7.8	17.5	15.8	2.7
04S 34E 26DAD1	430228112261201	09-01-99	1100	23.16	747	7.7	11.6	14.4	5.4
04S 35E 17CCA1	430409112233301	07-20-99	1050	--	855	7.7	27.5	13.1	6.4
04S 35E 18CDA1	430409112242901	09-15-99	1520	--	--	--	--	--	--
06S 30E 21CAC1	425254112574201	07-12-99	1420	--	505	7.9	29.0	13.7	7.1
				BLAINE COUNTY					
01S 18E 31DBC1	431728114215101	07-19-99	1345	--	323	8.0	27.0	15.9	6.5
01S 21E 14CDB1	432002113554501	07-20-99	1430	--	326	7.5	30.0	10.8	11.2
01S 21E 22BCC1	431932113571501	07-20-99	1145	--	354	7.5	27.0	10.3	10.4
01S 21E 23BCB1	431951113555901	07-19-99	1600	94.62	545	7.3	29.0	12.3	6.5
01S 22E 03DDA1	432149113490701	07-20-99	1320	--	361	7.2	29.5	12.4	8.7
02S 29E 18CCA1	431439113071401	07-28-99	1050	--	347	8.1	27.5	15.9	7.3
03N 18E 18AAA1	433558114204701	07-13-99	1530	18.80	312	7.6	31.5	12.3	6.1
04N 17E 12ADB1	434150114221201	07-13-99	1230	--	230	7.6	25.0	5.6	5.8
04N 18E 30ADB3	433914114205401	07-13-99	1415	--	270	7.8	30.0	7.9	8.0
				BONNEVILLE COUNTY					
01N 39E 36AAC1	432237111483001	08-25-99	1030	38.29	338	7.8	24.5	12.2	1.7
01N 44E 17ADA1	432507111172301	08-30-99	1230	--	431	7.6	24.5	11.7	7.8
01S 45E 17CAA1	431945111123101	08-26-99	1145	50.92	511	7.5	23.0	11.1	5.5
02N 37E 21CDD1	432857112064901	08-19-99	0915	--	538	7.7	22.3	15.5	6.6
02N 38E 18CBC1	433005112023001	08-11-99	1115	--	537	7.5	15.9	12.3	7.5
02N 42E 05AAD2	433210111314701	08-30-99	1445	--	378	7.7	16.5	14.0	3.4
03N 34E 13BDD1	433526112244201	08-11-99	1400	--	358	8.2	23.2	11.8	7.9
03N 36E 08BAD1	433631112151101	07-01-99	1050	378.75	517	7.7	16.8	11.3	7.4
03N 40E 02AAC1	433728111423101	08-19-99	1130	--	339	8.0	21.5	10.5	5.3
04S 43E 36BCB1	430154111221501	06-25-99	1500	--	870	8.3	20.5	9.6	.5

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
BANNOCK COUNTY										
05S 33E 36ADA1	09-02-99	<1	250	62	23	39	4.8	300	0	245
05S 34E 05DADD1	09-02-99	<1	230	61	20	24	5.2	260	0	216
05S 34E 11CCC1	09-09-99	<1	480	120	44	35	8.3	300	0	250
06S 34E 07ADA2	08-31-99	<1	260	62	25	49	6.9	340	0	281
06S 34E 09BCB1	08-31-99	<1	340	78	35	64	7.6	370	0	300
06S 34E 10CCD1	08-31-99	<1	390	93	37	47	7.2	370	0	302
07S 35E 17DCC1	08-23-99	<1	320	81	29	38	6.2	340	0	280
07S 35E 18AAC1	08-23-99	<1	260	72	19	25	3.3	290	0	234
08S 36E 15CDC1	06-24-99	<1	180	52	13	30	3.5	270	0	218
08S 36E 22BCD1	06-24-99	<1	200	60	12	18	7.8	260	0	215
09S 36E 22CCC1	06-24-99	<1	140	42	7.8	12	5.3	170	0	139
09S 38E 28CAC2	06-27-99	<1	320	63	40	39	11	380	0	315
10S 37E 17BDB1	06-30-99	<1	78	21	6.3	78	17	310	0	257
12S 36E 01BCD1	06-28-99	<1	200	55	15	19	1.4	150	0	122
12S 37E 08ABA1	06-28-99	<1	180	54	9.9	16	1.7	160	0	128
13S 38E 10BCA1	06-28-99	<1	250	76	15	39	4.8	210	0	174
BEAR LAKE COUNTY										
12S 44E 33DCC1	06-23-99	<1	320	87	24	8.7	1.1	300	0	245
14S 44E 12ACA1	06-23-99	<1	330	86	28	37	1.6	330	0	270
16S 43E 02DDB1	06-23-99	<1	250	49	32	28	5.5	280	0	231
BINGHAM COUNTY										
01N 32E 27ABD1	07-26-99	<1	110	27	9.4	15	2.7	140	0	116
01N 33E 26CDC1	07-26-99	<1	210	54	18	26	3.7	230	0	186
01N 36E 36DAA1	07-29-99	<1	150	44	9.1	11	2.0	160	0	130
01N 37E 21CBC1	07-29-99	<1	220	59	18	19	4.2	250	0	205
01S 37E 21BBC1	07-29-99	<1	200	63	11	9.6	2.9	250	0	201
02S 35E 28BCDA1	07-28-99	<1	170	48	11	11	2.2	170	0	139
02S 36E 11CCC2	09-15-99	--	--	--	--	--	--	--	--	--
02S 37E 07DCC1	07-15-99	<1	290	74	24	15	3.6	300	0	243
03S 31E 16CCB1	07-15-99	<1	120	29	10	16	2.7	140	2	122
03S 34E 34DDA1	07-29-99	<1	340	87	31	36	5.5	370	0	302
04S 30E 36BCA1	07-13-99	<1	150	38	13	18	3.0	160	0	133
04S 33E 07DCD1	07-13-99	<1	350	79	36	81	6.0	270	0	221
04S 34E 15CDC1	09-01-99	<1	310	84	25	23	4.8	260	0	209
04S 34E 21CBB2	09-01-99	<1	240	64	19	26	3.5	290	0	240
04S 34E 26DAD1	09-01-99	<1	310	80	27	27	5.0	230	0	190
04S 35E 17CCA1	07-20-99	<1	290	72	27	51	5.3	220	0	180
04S 35E 18CDA1	09-15-99	--	--	--	--	--	--	--	--	--
06S 30E 21CAC1	07-12-99	<1	190	49	17	23	3.6	170	0	142
BLAINE COUNTY										
01S 18E 31DBC1	07-19-99	<1	110	32	6.5	25	2.7	160	0	131
01S 21E 14CDB1	07-20-99	<1	130	38	7.7	17	3.5	160	0	132
01S 21E 22BCC1	07-20-99	<1	170	49	12	6.9	1.5	200	0	168
01S 21E 23BCB1	07-19-99	<1	220	62	15	32	2.9	320	0	259
01S 22E 03DDA1	07-20-99	<1	150	38	12	17	2.5	170	0	141
02S 29E 18CCA1	07-28-99	<1	130	30	15	14	3.0	160	0	128
03N 18E 18AAA1	07-13-99	<1	150	47	9.0	4.2	.65	170	0	142
04N 17E 12ADB1	07-13-99	<1	120	37	6.2	2.6	.41	110	0	92
04N 18E 30ADB3	07-13-99	<1	130	37	10	3.6	.86	150	0	125
BONNEVILLE COUNTY										
01N 39E 36AAC1	08-25-99	<1	150	46	8.2	11	4.0	190	0	155
01N 44E 17ADA1	08-30-99	<1	220	65	15	3.2	1.7	220	0	182
01S 45E 17CAA1	08-26-99	<1	260	85	11	5.6	3.4	320	0	262
02N 37E 21CDD1	08-19-99	<1	240	67	19	16	3.1	260	0	218
02N 38E 18CBC1	08-11-99	<1	250	69	18	14	3.0	260	0	216
02N 42E 05AAD2	08-30-99	<1	160	39	16	11	5.8	200	0	168
03N 34E 13BDD1	08-11-99	<1	140	39	11	17	2.9	170	0	138
03N 36E 08BAD1	07-01-99	<1	220	58	18	17	3.2	230	0	186
03N 40E 02AAC1	08-19-99	<1	150	44	9.6	8.9	1.7	160	0	133
04S 43E 36BCB1	06-25-99	<1	36	9.5	2.8	200	.92	420	3	353

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENT-I-FIER	DATE	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	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)
BANNOCK COUNTY										
05S 33E 36ADA1	09-02-99	47	26	.40	32	396	.54	<.010	2.83	<.020
05S 34E 05DADD1	09-02-99	44	19	.63	39	353	.48	<.010	2.11	<.020
05S 34E 11CCC1	09-09-99	99	140	.31	48	643	.87	<.010	.458	<.020
06S 34E 07ADA2	08-31-99	44	29	.22	38	435	.59	<.010	2.54	<.020
06S 34E 09BCB1	08-31-99	72	71	.30	28	562	.76	.025	5.64	.039
06S 34E 10CCD1	08-31-99	54	64	.17	28	532	.72	<.010	4.63	<.020
07S 35E 17DCC1	08-23-99	44	62	.15	28	468	.64	<.010	2.60	<.020
07S 35E 18AAC1	08-23-99	28	39	<.10	20	353	.48	<.002	1.54	<.002
08S 36E 15CDC1	06-24-99	<.10	17	.15	15	--	--	<.010	<.050	1.96
08S 36E 22BCD1	06-24-99	.10	12	.22	70	310	.42	<.010	<.050	.758
09S 36E 22CCC1	06-24-99	.83	15	.28	58	224	.30	<.010	<.050	.233
09S 38E 28CAC2	06-27-99	29	23	.28	42	439	.60	<.010	.780	.022
10S 37E 17BDB1	06-30-99	1.4	13	.90	79	374	.51	<.010	<.050	2.57
12S 36E 01BCD1	06-28-99	18	35	.13	17	235	.32	<.010	<.050	.027
12S 37E 08ABA1	06-28-99	12	29	.17	17	223	.30	<.010	1.41	<.020
13S 38E 10BCA1	06-28-99	29	78	.27	49	396	.54	<.010	<.050	.090
BEAR LAKE COUNTY										
12S 44E 33DCC1	06-23-99	60	6.0	.13	13	353	.48	<.010	1.41	<.020
14S 44E 12ACA1	06-23-99	60	43	.19	11	428	.58	<.010	<.050	<.020
16S 43E 02DDB1	06-23-99	49	16	.53	14	333	.45	<.010	.124	<.020
BINGHAM COUNTY										
01N 32E 27ABD1	07-26-99	9.6	9.4	1.1	.14	147	.20	<.010	.632	<.020
01N 33E 26CDC1	07-26-99	50	25	.40	30	325	.44	<.010	1.37	<.020
01N 36E 36DAA1	07-29-99	29	10	.73	17	207	.28	<.010	1.15	<.020
01N 37E 21CBC1	07-29-99	37	12	.37	24	313	.43	<.010	3.75	<.020
01S 37E 21BBC1	07-29-99	19	7.6	.59	18	256	.35	<.010	.683	<.020
02S 35E 28BCDA1	07-28-99	23	5.0	.71	17	207	.28	<.010	.896	<.020
02S 36E 11CCC2	09-15-99	--	--	--	--	--	--	--	--	--
02S 37E 07DCC1	07-15-99	38	18	.31	30	375	.51	<.010	5.68	<.020
03S 31E 16CCB1	07-15-99	14	12	.97	37	198	.27	<.010	.637	<.020
03S 34E 34DDA1	07-29-99	65	22	.29	29	505	.69	<.010	10.9	<.020
04S 30E 36BCA1	07-13-99	25	17	.78	32	230	.31	<.010	.758	<.020
04S 33E 07DCD1	07-13-99	120	120	.54	27	616	.84	<.010	4.03	<.020
04S 34E 15CDC1	09-01-99	56	19	.36	41	450	.61	<.010	16.0	<.020
04S 34E 21CBB2	09-01-99	34	13	.61	28	344	.47	<.010	2.38	<.020
04S 34E 26DAD1	09-01-99	70	22	.30	40	483	.66	<.010	21.9	<.020
04S 35E 17CCA1	07-20-99	110	35	.41	39	540	.73	<.010	21.5	<.020
04S 35E 18CDA1	09-15-99	--	--	--	--	--	--	--	--	--
06S 30E 21CAC1	07-12-99	43	37	.69	31	295	.40	<.010	1.13	<.020
BLAINE COUNTY										
01S 18E 31DBC1	07-19-99	6.9	13	.16	27	201	.27	<.010	1.96	<.020
01S 21E 14CDB1	07-20-99	7.0	14	.29	43	221	.30	<.010	2.74	<.020
01S 21E 22BCC1	07-20-99	12	3.8	.12	17	208	.28	<.010	1.00	<.020
01S 21E 23BCB1	07-19-99	17	14	.40	49	358	.49	<.010	1.97	<.020
01S 22E 03DDA1	07-20-99	22	9.8	.41	30	227	.31	.003	2.21	.012
02S 29E 18CCA1	07-28-99	18	14	.50	33	207	.28	<.010	.757	<.020
03N 18E 18AAA1	07-13-99	16	2.1	.35	12	179	.24	<.010	.372	<.020
04N 17E 12ADB1	07-13-99	7.0	1.5	.15	11	122	.17	<.010	.161	<.020
04N 18E 30ADB3	07-13-99	13	1.9	.40	11	154	.21	<.010	.178	<.020
BONNEVILLE COUNTY										
01N 39E 36AAC1	08-25-99	9.7	7.1	.23	57	236	.32	<.010	<.050	.034
01N 44E 17ADA1	08-30-99	17	4.0	.20	11	231	.31	<.010	.947	<.020
01S 45E 17CAA1	08-26-99	3.1	3.9	.23	47	321	.44	<.010	.167	<.020
02N 37E 21CDD1	08-19-99	34	12	.35	23	314	.43	<.010	1.93	<.020
02N 38E 18CBC1	08-11-99	32	12	.31	20	308	.42	<.010	1.93	<.020
02N 42E 05AAD2	08-30-99	15	8.2	.27	50	247	.34	<.010	.324	<.020
03N 34E 13BDD1	08-11-99	15	12	.92	32	218	.30	<.010	1.09	<.020
03N 36E 08BAD1	07-01-99	46	18	.44	23	302	.41	.011	1.53	<.020
03N 40E 02AAC1	08-19-99	25	6.8	.37	11	188	.26	<.010	.130	<.020
04S 43E 36BCB1	06-25-99	18	14	.48	8.2	470	.64	<.010	.934	.026

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
BANNOCK COUNTY										
05S 33E 36ADA1	09-02-99	.014	2	95	<1.0	--	2.7	17	<1.0	<2.2
05S 34E 05DADD1	09-02-99	.030	6	95	<1.0	--	1.3	16	<1.0	E1.8
05S 34E 11CCC1	09-09-99	.025	3	83	<1.0	--	1.6	E9.1	<1.0	3.8
06S 34E 07ADA2	08-31-99	.017	2	126	<1.0	--	3.6	16	<1.0	<2.2
06S 34E 09BCB1	08-31-99	.013	2	130	<1.0	--	2.1	<10	1.3	6.3
06S 34E 10CCD1	08-31-99	.017	2	141	<1.0	--	18	<10	<1.0	<2.2
07S 35E 17DCC1	08-23-99	.025	2	137	<1.0	--	2.0	<10	<1.0	<2.2
07S 35E 18AAC1	08-23-99	.001	<1	113	<1.0	--	5.7	<10	<1.0	<2.2
08S 36E 15CDC1	06-24-99	.023	45	431	<1.0	<1.0	<1.0	940	<1.0	11
08S 36E 22BCD1	06-24-99	.054	<1	317	<1.0	<1.0	<1.0	120	<1.0	225
09S 36E 22CCC1	06-24-99	.043	<1	254	<1.0	<1.0	<1.0	89	<1.0	95
09S 38E 28CAC2	06-27-99	.027	11	136	<1.0	<1.0	11	<10	<1.0	<3.0
10S 37E 17BDB1	06-30-99	.029	<1	340	<1.0	<1.0	<1.0	58	<1.0	52
12S 36E 01BCD1	06-28-99	.019	<1	58	<1.0	<1.0	<1.0	180	<1.0	3.8
12S 37E 08ABA1	06-28-99	.017	<1	91	<1.0	<1.0	<1.0	<10	<1.0	<3.0
13S 38E 10BCA1	06-28-99	.049	<1	217	<1.0	<1.0	<1.0	420	<1.0	545
BEAR LAKE COUNTY										
12S 44E 33DCC1	06-23-99	.028	<1	52	<1.0	<1.0	1.4	E6.5	<1.0	E2.3
14S 44E 12ACA1	06-23-99	.031	<1	98	<1.0	<1.0	<1.0	250	<1.0	20
16S 43E 02DDB1	06-23-99	.020	<1	41	<1.0	<1.0	<1.0	<10	<1.0	<3.0
BINGHAM COUNTY										
01N 32E 27ABD1	07-26-99	<.010	2	11	<1.0	--	<1.0	<10	<1.0	<3.0
01N 33E 26CDC1	07-26-99	<.010	2	42	<1.0	--	<1.0	<10	<1.0	<3.0
01N 36E 36DAA1	07-29-99	.016	3	42	<1.0	--	1.1	<10	<1.0	<3.0
01N 37E 21CBC1	07-29-99	.016	<1	37	<1.0	--	11	<10	<1.0	<3.0
01S 37E 21BBC1	07-29-99	.065	2	139	<1.0	--	5.4	E5.5	<1.0	<3.0
02S 35E 28BCDA1	07-28-99	.014	3	48	<1.0	--	7.4	E6.3	<1.0	<3.0
02S 36E 11CCC2	09-15-99	--	--	--	--	--	--	--	--	--
02S 37E 07DCC1	07-15-99	.033	1	71	<1.0	<1.0	14	E5.3	<1.0	<3.0
03S 31E 16CCB1	07-15-99	.014	2	9.0	<1.0	1.3	<1.0	<10	<1.0	<3.0
03S 34E 34DDA1	07-29-99	.020	<1	207	<1.0	--	1.8	<10	<1.0	<3.0
04S 30E 36BCA1	07-13-99	.018	2	19	<1.0	1.4	<1.0	<10	<1.0	<3.0
04S 33E 07DCD1	07-13-99	.036	3	118	<1.0	1.5	4.2	<10	<1.0	<3.0
04S 34E 15CDC1	09-01-99	.016	3	201	<1.0	--	2.0	<10	<1.0	<2.2
04S 34E 21CBB2	09-01-99	<.010	2	106	<1.0	--	5.3	<10	<1.0	E1.7
04S 34E 26DAD1	09-01-99	.014	2	169	<1.0	--	1.0	<10	<1.0	<2.2
04S 35E 17CCA1	07-20-99	.027	2	66	<1.0	1.3	1.3	<10	<1.0	<3.0
04S 35E 18CDA1	09-15-99	--	--	--	--	--	--	--	--	--
06S 30E 21CAC1	07-12-99	<.010	<1	29	<1.0	--	1.8	<10	<1.0	<3.0
BLAINE COUNTY										
01S 18E 31DBC1	07-19-99	.019	2	15	<1.0	--	<1.0	<10	<1.0	<3.0
01S 21E 14CDB1	07-20-99	.036	3	158	<1.0	--	<1.0	<10	<1.0	<3.0
01S 21E 22BCC1	07-20-99	.025	2	113	<1.0	--	1.1	<10	<1.0	<3.0
01S 21E 23BCB1	07-19-99	.111	4	233	<1.0	--	2.0	<10	<1.0	<3.0
01S 22E 03DDA1	07-20-99	.088	5	73	<1.0	--	1.8	<10	<1.0	<3.0
02S 29E 18CCA1	07-28-99	<.010	2	13	<1.0	--	<1.0	<10	<1.0	<3.0
03N 18E 18AAA1	07-13-99	<.010	<1	37	<1.0	<1.0	20	E6.6	<1.0	<3.0
04N 17E 12ADB1	07-13-99	<.010	<1	28	<1.0	<1.0	2.9	<10	<1.0	<3.0
04N 18E 30ADB3	07-13-99	<.010	<1	38	<1.0	<1.0	<1.0	<10	<1.0	<3.0
BONNEVILLE COUNTY										
01N 39E 36AAC1	08-25-99	.035	2	142	<1.0	--	<1.0	120	<1.0	281
01N 44E 17ADA1	08-30-99	<.010	<1	160	<1.0	--	2.0	<10	<1.0	<2.2
01S 45E 17CAA1	08-26-99	.032	1	389	<1.0	--	4.0	<10	2.5	E1.3
02N 37E 21CDD1	08-19-99	.010	1	62	<1.0	--	4.5	E7.3	<1.0	2.5
02N 38E 18CBC1	08-11-99	.010	<1	91	<1.0	--	1.3	<10	<1.0	<3.0
02N 42E 05AAD2	08-30-99	<.010	3	125	<1.0	--	3.5	<10	<1.0	<2.2
03N 34E 13BDD1	08-11-99	<.010	2	9.6	<1.0	--	<1.0	11	<1.0	<3.0
03N 36E 08BAD1	07-01-99	.017	1	54	<1.0	1.1	1.1	<10	<1.0	<3.0
03N 40E 02AAC1	08-19-99	<.010	2	34	<1.0	--	<1.0	<10	<1.0	<2.2
04S 43E 36BCB1	06-25-99	.027	6	167	<1.0	<1.0	1.1	E6.5	<1.0	E1.5

E Positive detection, but below stated detection limit.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	PROPCHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	PROMETON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)
BANNOCK COUNTY									
05S 33E 36ADA1	09-02-99	<1	94	--	--	--	--	--	--
05S 34E 05DADD1	09-02-99	<1	38	--	--	--	--	--	--
05S 34E 11CCC1	09-09-99	<1	42	--	--	--	--	--	--
06S 34E 07ADA2	08-31-99	<1	60	--	--	--	--	--	--
06S 34E 09BCB1	08-31-99	2	477	<.0070	<.0020	E.0039	E.0026	E.0063	<.0040
06S 34E 10CCD1	08-31-99	2	50	<.0070	<.0020	E.0026	.182	E.0104	<.0040
07S 35E 17DCC1	08-23-99	<1	E12	<.0070	<.0020	<.0050	<.0180	E.0095	<.0040
07S 35E 18AAC1	08-23-99	<1	96	<.0070	<.0020	<.0050	<.0180	E.0032	<.0040
08S 36E 15CDC1	06-24-99	<1	E12	<.0070	<.0020	<.0050	<.0180	E.0018	<.0040
08S 36E 22BCD1	06-24-99	<1	<20	--	--	--	--	--	--
09S 36E 22CCC1	06-24-99	<1	<20	--	--	--	--	--	--
09S 38E 28CAC2	06-27-99	<1	E13	--	--	--	--	--	--
10S 37E 17BDB1	06-30-99	<1	<20	--	--	--	--	--	--
12S 36E 01BCD1	06-28-99	<1	58	--	--	--	--	--	--
12S 37E 08ABA1	06-28-99	<1	<20	--	--	--	--	--	--
13S 38E 10BCA1	06-28-99	<1	E9.9	--	--	--	--	--	--
BEAR LAKE COUNTY									
12S 44E 33DCC1	06-23-99	<1	<20	<.0070	<.0020	<.0050	<.0180	E.0034	<.0040
14S 44E 12ACA1	06-23-99	<1	<20	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
16S 43E 02DDB1	06-23-99	<1	86	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
BINGHAM COUNTY									
01N 32E 27ABD1	07-26-99	<1	<20	--	--	--	--	--	--
01N 33E 26CDC1	07-26-99	<1	E8.8	--	--	--	--	--	--
01N 36E 36DAA1	07-29-99	<1	38	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
01N 37E 21CBC1	07-29-99	<1	117	--	--	--	--	--	--
01S 37E 21BBC1	07-29-99	<1	100	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
02S 35E 28BCDA1	07-28-99	<1	106	<.0070	<.0020	<.0050	<.0180	E.0091	<.0040
02S 36E 11CCC2	09-15-99	--	--	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
02S 37E 07DCC1	07-15-99	<1	<20	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
03S 31E 16CCB1	07-15-99	<1	E7.7	--	--	--	--	--	--
03S 34E 34DDA1	07-29-99	<1	39	--	--	--	--	--	--
04S 30E 36BCA1	07-13-99	<1	<20	--	--	--	--	--	--
04S 33E 07DCD1	07-13-99	2	<20	--	--	--	--	--	--
04S 34E 15CDC1	09-01-99	<1	57	--	--	--	--	--	--
04S 34E 21CBB2	09-01-99	<1	E13	--	--	--	--	--	--
04S 34E 26DAD1	09-01-99	<1	30	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
04S 35E 17CCA1	07-20-99	<1	<20	<.0070	<.0020	<.0050	<.0180	E.0031	<.0040
04S 35E 18CDA1	09-15-99	--	--	<.0070	<.0020	<.0050	<.0180	E.0028	<.0040
06S 30E 21CAC1	07-12-99	<1	<20	--	--	--	--	--	--
BLAINE COUNTY									
01S 18E 31DBC1	07-19-99	1	<20	--	--	--	--	--	--
01S 21E 14CDB1	07-20-99	<1	E9.5	--	--	--	--	--	--
01S 21E 22BCC1	07-20-99	<1	E7.6	--	--	--	--	--	--
01S 21E 23BCB1	07-19-99	1	44	--	--	--	--	--	--
01S 22E 03DDA1	07-20-99	<1	32	--	--	--	--	--	--
02S 29E 18CCA1	07-28-99	<1	23	--	--	--	--	--	--
03N 18E 18AAA1	07-13-99	<1	258	--	--	--	--	--	--
04N 17E 12ADB1	07-13-99	<1	<20	--	--	--	--	--	--
04N 18E 30ADB3	07-13-99	<1	E12	--	--	--	--	--	--
BONNEVILLE COUNTY									
01N 39E 36AAC1	08-25-99	<1	<20	--	--	--	--	--	--
01N 44E 17ADA1	08-30-99	<1	E19	<.0070	<.0020	.0151	<.0180	<.0020	<.0040
01S 45E 17CAA1	08-26-99	<1	3230	--	--	--	--	--	--
02N 37E 21CDD1	08-19-99	<1	271	<.0070	<.0020	.0055	<.0180	E.0145	<.0040
02N 38E 18CBC1	08-11-99	<1	39	<.0070	<.0020	.0060	<.0180	E.0206	<.0040
02N 42E 05AAD2	08-30-99	2	101	--	--	--	--	--	--
03N 34E 13BDD1	08-11-99	<1	<20	--	--	--	--	--	--
03N 36E 08BAD1	07-01-99	<1	<20	--	--	--	--	--	--
03N 40E 02AAC1	08-19-99	<1	E19	--	--	--	--	--	--
04S 43E 36BCB1	06-25-99	22	40	--	--	--	--	--	--

E Positive detection, but below stated detection limit.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DISSOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	LINDANE DISSOLVED (UG/L) (39341)	DIELDRIN DISSOLVED (UG/L) (39381)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	MALATHION, DISSOLVED (UG/L) (39532)
BANNOCK COUNTY									
05S 33E 36ADA1	09-02-99	--	--	--	--	--	--	--	--
05S 34E 05DADD1	09-02-99	--	--	--	--	--	--	--	--
05S 34E 11CCC1	09-09-99	--	--	--	--	--	--	--	--
06S 34E 07ADA2	08-31-99	--	--	--	--	--	--	--	--
06S 34E 09BCB1	08-31-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
06S 34E 10CCD1	08-31-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
07S 35E 17DCC1	08-23-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
07S 35E 18AAC1	08-23-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
08S 36E 15CDC1	06-24-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
08S 36E 22BCD1	06-24-99	--	--	--	--	--	--	--	--
09S 36E 22CCC1	06-24-99	--	--	--	--	--	--	--	--
09S 38E 28CAC2	06-27-99	--	--	--	--	--	--	--	--
10S 37E 17BDB1	06-30-99	--	--	--	--	--	--	--	--
12S 36E 01BCD1	06-28-99	--	--	--	--	--	--	--	--
12S 37E 08ABA1	06-28-99	--	--	--	--	--	--	--	--
13S 38E 10BCA1	06-28-99	--	--	--	--	--	--	--	--
BEAR LAKE COUNTY									
12S 44E 33DCC1	06-23-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
14S 44E 12ACA1	06-23-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
16S 43E 02DDB1	06-23-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
BINGHAM COUNTY									
01N 32E 27ABD1	07-26-99	--	--	--	--	--	--	--	--
01N 33E 26CDC1	07-26-99	--	--	--	--	--	--	--	--
01N 36E 36DAA1	07-29-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
01N 37E 21CBC1	07-29-99	--	--	--	--	--	--	--	--
01S 37E 21BBC1	07-29-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
02S 35E 28BCDA1	07-28-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
02S 36E 11CCC2	09-15-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
02S 37E 07DCC1	07-15-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
03S 31E 16CCB1	07-15-99	--	--	--	--	--	--	--	--
03S 34E 34DDA1	07-29-99	--	--	--	--	--	--	--	--
04S 30E 36BCA1	07-13-99	--	--	--	--	--	--	--	--
04S 33E 07DCD1	07-13-99	--	--	--	--	--	--	--	--
04S 34E 15CDC1	09-01-99	--	--	--	--	--	--	--	--
04S 34E 21CBB2	09-01-99	--	--	--	--	--	--	--	--
04S 34E 26DAD1	09-01-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	.009	<.005
04S 35E 17CCA1	07-20-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	.014	<.005
04S 35E 18CDA1	09-15-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
06S 30E 21CAC1	07-12-99	--	--	--	--	--	--	--	--
BLAINE COUNTY									
01S 18E 31DBC1	07-19-99	--	--	--	--	--	--	--	--
01S 21E 14CDB1	07-20-99	--	--	--	--	--	--	--	--
01S 21E 22BCC1	07-20-99	--	--	--	--	--	--	--	--
01S 21E 23BCB1	07-19-99	--	--	--	--	--	--	--	--
01S 22E 03DDA1	07-20-99	--	--	--	--	--	--	--	--
02S 29E 18CCA1	07-28-99	--	--	--	--	--	--	--	--
03N 18E 18AAA1	07-13-99	--	--	--	--	--	--	--	--
04N 17E 12ADB1	07-13-99	--	--	--	--	--	--	--	--
04N 18E 30ADB3	07-13-99	--	--	--	--	--	--	--	--
BONNEVILLE COUNTY									
01N 39E 36AAC1	08-25-99	--	--	--	--	--	--	--	--
01N 44E 17ADA1	08-30-99	<.0030	<.0020	E.0014	<.0040	<.004	<.001	<.002	<.005
01S 45E 17CAA1	08-26-99	--	--	--	--	--	--	--	--
02N 37E 21CDD1	08-19-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
02N 38E 18CBC1	08-11-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
02N 42E 05AAD2	08-30-99	--	--	--	--	--	--	--	--
03N 34E 13BDD1	08-11-99	--	--	--	--	--	--	--	--
03N 36E 08BAD1	07-01-99	--	--	--	--	--	--	--	--
03N 40E 02AAC1	08-19-99	--	--	--	--	--	--	--	--
04S 43E 36BCB1	06-25-99	--	--	--	--	--	--	--	--

E Positive detection, but below stated detection limit.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	PARATHION, DISSOLVED (UG/L) (39542)	DIAZINON, DISSOLVED (UG/L) (39572)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
BANNOCK COUNTY									
05S 33E 36ADA1	09-02-99	--	--	--	--	--	--	--	--
05S 34E 05DADD1	09-02-99	--	--	--	--	--	--	--	--
05S 34E 11CCC1	09-09-99	--	--	--	--	--	--	--	--
06S 34E 07ADA2	08-31-99	--	--	--	--	--	--	--	--
06S 34E 09BCB1	08-31-99	<.004	<.002	.011	<.002	<.004	<.0030	<.0020	<.0040
06S 34E 10CCD1	08-31-99	<.004	<.002	.017	<.002	<.004	<.0030	<.0020	<.0040
07S 35E 17DCC1	08-23-99	<.004	<.002	.009	<.002	<.004	<.0030	<.0020	<.0040
07S 35E 18AAC1	08-23-99	<.004	<.002	.005	<.002	<.004	<.0030	<.0020	<.0040
08S 36E 15CDC1	06-24-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
08S 36E 22BCD1	06-24-99	--	--	--	--	--	--	--	--
09S 36E 22CCC1	06-24-99	--	--	--	--	--	--	--	--
09S 38E 28CAC2	06-27-99	--	--	--	--	--	--	--	--
10S 37E 17BDB1	06-30-99	--	--	--	--	--	--	--	--
12S 36E 01BCD1	06-28-99	--	--	--	--	--	--	--	--
12S 37E 08ABA1	06-28-99	--	--	--	--	--	--	--	--
13S 38E 10BCA1	06-28-99	--	--	--	--	--	--	--	--
BEAR LAKE COUNTY									
12S 44E 33DCC1	06-23-99	<.004	<.002	E.004	<.002	<.004	<.0030	<.0020	<.0040
14S 44E 12ACA1	06-23-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
16S 43E 02DDB1	06-23-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
BINGHAM COUNTY									
01N 32E 27ABD1	07-26-99	--	--	--	--	--	--	--	--
01N 33E 26CDC1	07-26-99	--	--	--	--	--	--	--	--
01N 36E 36DAA1	07-29-99	<.004	<.002	.011	<.002	<.004	<.0030	<.0020	<.0040
01N 37E 21CBC1	07-29-99	--	--	--	--	--	--	--	--
01S 37E 21BBC1	07-29-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
02S 35E 28BCDA1	07-28-99	<.004	<.002	.012	<.002	<.004	<.0030	<.0020	<.0040
02S 36E 11CCC2	09-15-99	<.004	<.002	<.001	<.002	.464	<.0030	<.0020	<.0040
02S 37E 07DCC1	07-15-99	<.004	<.002	<.001	<.002	.076	<.0030	<.0020	<.0040
03S 31E 16CCB1	07-15-99	--	--	--	--	--	--	--	--
03S 34E 34DDA1	07-29-99	--	--	--	--	--	--	--	--
04S 30E 36BCA1	07-13-99	--	--	--	--	--	--	--	--
04S 33E 07DCD1	07-13-99	--	--	--	--	--	--	--	--
04S 34E 15CDC1	09-01-99	--	--	--	--	--	--	--	--
04S 34E 21CBB2	09-01-99	--	--	--	--	--	--	--	--
04S 34E 26DAD1	09-01-99	<.004	<.002	.006	<.002	.160	<.0030	<.0020	<.0040
04S 35E 17CCA1	07-20-99	<.004	<.002	<.004	.011	.724	<.0030	<.0020	<.0040
04S 35E 18CDA1	09-15-99	<.004	<.002	<.001	<.002	.125	<.0030	<.0020	<.0040
06S 30E 21CAC1	07-12-99	--	--	--	--	--	--	--	--
BLAINE COUNTY									
01S 18E 31DBC1	07-19-99	--	--	--	--	--	--	--	--
01S 21E 14CDB1	07-20-99	--	--	--	--	--	--	--	--
01S 21E 22BCC1	07-20-99	--	--	--	--	--	--	--	--
01S 21E 23BCB1	07-19-99	--	--	--	--	--	--	--	--
01S 22E 03DDA1	07-20-99	--	--	--	--	--	--	--	--
02S 29E 18CCA1	07-28-99	--	--	--	--	--	--	--	--
03N 18E 18AAA1	07-13-99	--	--	--	--	--	--	--	--
04N 17E 12ADB1	07-13-99	--	--	--	--	--	--	--	--
04N 18E 30ADB3	07-13-99	--	--	--	--	--	--	--	--
BONNEVILLE COUNTY									
01N 39E 36AAC1	08-25-99	--	--	--	--	--	--	--	--
01N 44E 17ADA1	08-30-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
01S 45E 17CAA1	08-26-99	--	--	--	--	--	--	--	--
02N 37E 21CDD1	08-19-99	<.004	<.002	.025	<.002	<.004	<.0030	<.0020	<.0040
02N 38E 18CBC1	08-11-99	<.004	<.002	.047	<.002	<.004	<.0030	<.0020	<.0040
02N 42E 05AAD2	08-30-99	--	--	--	--	--	--	--	--
03N 34E 13BDD1	08-11-99	--	--	--	--	--	--	--	--
03N 36E 08BAD1	07-01-99	--	--	--	--	--	--	--	--
03N 40E 02AAC1	08-19-99	--	--	--	--	--	--	--	--
04S 43E 36BCB1	06-25-99	--	--	--	--	--	--	--	--

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENT-I-FIER	DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
BANNOCK COUNTY									
05S 33E 36ADA1	09-02-99	--	--	--	--	--	--	--	--
05S 34E 05DADD1	09-02-99	--	--	--	--	--	--	--	--
05S 34E 11CCC1	09-09-99	--	--	--	--	--	--	--	--
06S 34E 07ADA2	08-31-99	--	--	--	--	--	--	--	--
06S 34E 09BCB1	08-31-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	E.0025	<.0040
06S 34E 10CCD1	08-31-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	.0173	<.0040
07S 35E 17DCC1	08-23-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
07S 35E 18AAC1	08-23-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
08S 36E 15CDC1	06-24-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
08S 36E 22BCD1	06-24-99	--	--	--	--	--	--	--	--
09S 36E 22CCC1	06-24-99	--	--	--	--	--	--	--	--
09S 38E 28CAC2	06-27-99	--	--	--	--	--	--	--	--
10S 37E 17BDB1	06-30-99	--	--	--	--	--	--	--	--
12S 36E 01BCD1	06-28-99	--	--	--	--	--	--	--	--
12S 37E 08ABA1	06-28-99	--	--	--	--	--	--	--	--
13S 38E 10BCA1	06-28-99	--	--	--	--	--	--	--	--
BEAR LAKE COUNTY									
12S 44E 33DCC1	06-23-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
14S 44E 12ACA1	06-23-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
16S 43E 02DDB1	06-23-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
BINGHAM COUNTY									
01N 32E 27ABD1	07-26-99	--	--	--	--	--	--	--	--
01N 33E 26CDC1	07-26-99	--	--	--	--	--	--	--	--
01N 36E 36DAA1	07-29-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
01N 37E 21CBC1	07-29-99	--	--	--	--	--	--	--	--
01S 37E 21BBC1	07-29-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
02S 35E 28BCDA1	07-28-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
02S 36E 11CCC2	09-15-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
02S 37E 07DCC1	07-15-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
03S 31E 16CCB1	07-15-99	--	--	--	--	--	--	--	--
03S 34E 34DDA1	07-29-99	--	--	--	--	--	--	--	--
04S 30E 36BCA1	07-13-99	--	--	--	--	--	--	--	--
04S 33E 07DCD1	07-13-99	--	--	--	--	--	--	--	--
04S 34E 15CDC1	09-01-99	--	--	--	--	--	--	--	--
04S 34E 21CBB2	09-01-99	--	--	--	--	--	--	--	--
04S 34E 26DAD1	09-01-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
04S 35E 17CCA1	07-20-99	<.0020	<.0070	<.0020	<.0060	.102	<.0040	E.0030	<.0040
04S 35E 18CDA1	09-15-99	<.0020	<.0070	<.0020	<.0060	.0095	<.0040	<.0100	<.0040
06S 30E 21CAC1	07-12-99	--	--	--	--	--	--	--	--
BLAINE COUNTY									
01S 18E 31DBC1	07-19-99	--	--	--	--	--	--	--	--
01S 21E 14CDB1	07-20-99	--	--	--	--	--	--	--	--
01S 21E 22BCC1	07-20-99	--	--	--	--	--	--	--	--
01S 21E 23BCB1	07-19-99	--	--	--	--	--	--	--	--
01S 22E 03DDA1	07-20-99	--	--	--	--	--	--	--	--
02S 29E 18CCA1	07-28-99	--	--	--	--	--	--	--	--
03N 18E 18AAA1	07-13-99	--	--	--	--	--	--	--	--
04N 17E 12ADB1	07-13-99	--	--	--	--	--	--	--	--
04N 18E 30ADB3	07-13-99	--	--	--	--	--	--	--	--
BONNEVILLE COUNTY									
01N 39E 36AAC1	08-25-99	--	--	--	--	--	--	--	--
01N 44E 17ADA1	08-30-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
01S 45E 17CAA1	08-26-99	--	--	--	--	--	--	--	--
02N 37E 21CDD1	08-19-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
02N 38E 18CBC1	08-11-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
02N 42E 05AAD2	08-30-99	--	--	--	--	--	--	--	--
03N 34E 13BDD1	08-11-99	--	--	--	--	--	--	--	--
03N 36E 08BAD1	07-01-99	--	--	--	--	--	--	--	--
03N 40E 02AAC1	08-19-99	--	--	--	--	--	--	--	--
04S 43E 36BCB1	06-25-99	--	--	--	--	--	--	--	--

E Positive detection, but below stated detection limit.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TERBUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
BANNOCK COUNTY									
05S 33E 36ADA1	09-02-99	--	--	--	--	--	--	--	--
05S 34E 05DADD1	09-02-99	--	--	--	--	--	--	--	--
05S 34E 11CCC1	09-09-99	--	--	--	--	--	--	--	--
06S 34E 07ADA2	08-31-99	--	--	--	--	--	--	--	--
06S 34E 09BCB1	08-31-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
06S 34E 10CCD1	08-31-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
07S 35E 17DCC1	08-23-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
07S 35E 18AAC1	08-23-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
08S 36E 15CDC1	06-24-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
08S 36E 22BCD1	06-24-99	--	--	--	--	--	--	--	--
09S 36E 22CCC1	06-24-99	--	--	--	--	--	--	--	--
09S 38E 28CAC2	06-27-99	--	--	--	--	--	--	--	--
10S 37E 17BDB1	06-30-99	--	--	--	--	--	--	--	--
12S 36E 01BCD1	06-28-99	--	--	--	--	--	--	--	--
12S 37E 08ABA1	06-28-99	--	--	--	--	--	--	--	--
13S 38E 10BCA1	06-28-99	--	--	--	--	--	--	--	--
BEAR LAKE COUNTY									
12S 44E 33DCC1	06-23-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
14S 44E 12ACA1	06-23-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
16S 43E 02DDB1	06-23-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
BINGHAM COUNTY									
01N 32E 27ABD1	07-26-99	--	--	--	--	--	--	--	--
01N 33E 26CDC1	07-26-99	--	--	--	--	--	--	--	--
01N 36E 36DAA1	07-29-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
01N 37E 21CBC1	07-29-99	--	--	--	--	--	--	--	--
01S 37E 21BBC1	07-29-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
02S 35E 28BCDA1	07-28-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
02S 36E 11CCC2	09-15-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
02S 37E 07DCC1	07-15-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
03S 31E 16CCB1	07-15-99	--	--	--	--	--	--	--	--
03S 34E 34DDA1	07-29-99	--	--	--	--	--	--	--	--
04S 30E 36BCA1	07-13-99	--	--	--	--	--	--	--	--
04S 33E 07DCD1	07-13-99	--	--	--	--	--	--	--	--
04S 34E 15CDC1	09-01-99	--	--	--	--	--	--	--	--
04S 34E 21CBB2	09-01-99	--	--	--	--	--	--	--	--
04S 34E 26DAD1	09-01-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
04S 35E 17CCA1	07-20-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
04S 35E 18CDA1	09-15-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
06S 30E 21CAC1	07-12-99	--	--	--	--	--	--	--	--
BLAINE COUNTY									
01S 18E 31DBC1	07-19-99	--	--	--	--	--	--	--	--
01S 21E 14CDB1	07-20-99	--	--	--	--	--	--	--	--
01S 21E 22BCC1	07-20-99	--	--	--	--	--	--	--	--
01S 21E 23BCB1	07-19-99	--	--	--	--	--	--	--	--
01S 22E 03DDA1	07-20-99	--	--	--	--	--	--	--	--
02S 29E 18CCA1	07-28-99	--	--	--	--	--	--	--	--
03N 18E 18AAA1	07-13-99	--	--	--	--	--	--	--	--
04N 17E 12ADB1	07-13-99	--	--	--	--	--	--	--	--
04N 18E 30ADB3	07-13-99	--	--	--	--	--	--	--	--
BONNEVILLE COUNTY									
01N 39E 36AAC1	08-25-99	--	--	--	--	--	--	--	--
01N 44E 17ADA1	08-30-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
01S 45E 17CAA1	08-26-99	--	--	--	--	--	--	--	--
02N 37E 21CDD1	08-19-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
02N 38E 18CBC1	08-11-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
02N 42E 05AAD2	08-30-99	--	--	--	--	--	--	--	--
03N 34E 13BDD1	08-11-99	--	--	--	--	--	--	--	--
03N 36E 08BAD1	07-01-99	--	--	--	--	--	--	--	--
03N 40E 02AAC1	08-19-99	--	--	--	--	--	--	--	--
04S 43E 36BCB1	06-25-99	--	--	--	--	--	--	--	--

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PROPARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PERMETHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
BANNOCK COUNTY									
05S 33E 36ADA1	09-02-99	--	--	--	--	--	--	--	--
05S 34E 05DADD1	09-02-99	--	--	--	--	--	--	--	--
05S 34E 11CCC1	09-09-99	--	--	--	--	--	--	--	--
06S 34E 07ADA2	08-31-99	--	--	--	--	--	--	--	--
06S 34E 09BCB1	08-31-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
06S 34E 10CCD1	08-31-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
07S 35E 17DCC1	08-23-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
07S 35E 18AAC1	08-23-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
08S 36E 15CDC1	06-24-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
08S 36E 22BCD1	06-24-99	--	--	--	--	--	--	--	--
09S 36E 22CCC1	06-24-99	--	--	--	--	--	--	--	--
09S 38E 28CAC2	06-27-99	--	--	--	--	--	--	--	--
10S 37E 17BDB1	06-30-99	--	--	--	--	--	--	--	--
12S 36E 01BCD1	06-28-99	--	--	--	--	--	--	--	--
12S 37E 08ABA1	06-28-99	--	--	--	--	--	--	--	--
13S 38E 10BCA1	06-28-99	--	--	--	--	--	--	--	--
BEAR LAKE COUNTY									
12S 44E 33DCC1	06-23-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
14S 44E 12ACA1	06-23-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
16S 43E 02DDB1	06-23-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
BINGHAM COUNTY									
01N 32E 27ABD1	07-26-99	--	--	--	--	--	--	--	--
01N 33E 26CDC1	07-26-99	--	--	--	--	--	--	--	--
01N 36E 36DAA1	07-29-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
01N 37E 21CBC1	07-29-99	--	--	--	--	--	--	--	--
01S 37E 21BBC1	07-29-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
02S 35E 28BCDA1	07-28-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
02S 36E 11CCC2	09-15-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
02S 37E 07DCC1	07-15-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
03S 31E 16CCB1	07-15-99	--	--	--	--	--	--	--	--
03S 34E 34DDA1	07-29-99	--	--	--	--	--	--	--	--
04S 30E 36BCA1	07-13-99	--	--	--	--	--	--	--	--
04S 33E 07DCD1	07-13-99	--	--	--	--	--	--	--	--
04S 34E 15CDC1	09-01-99	--	--	--	--	--	--	--	--
04S 34E 21CBB2	09-01-99	--	--	--	--	--	--	--	--
04S 34E 26DAD1	09-01-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
04S 35E 17CCA1	07-20-99	<.0030	<.0020	<.0020	<.0040	<.0030	--	<.0010	<.0050
04S 35E 18CDA1	09-15-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
06S 30E 21CAC1	07-12-99	--	--	--	--	--	--	--	--
BLAINE COUNTY									
01S 18E 31DBC1	07-19-99	--	--	--	--	--	--	--	--
01S 21E 14CDB1	07-20-99	--	--	--	--	--	--	--	--
01S 21E 22BCC1	07-20-99	--	--	--	--	--	--	--	--
01S 21E 23BCB1	07-19-99	--	--	--	--	--	--	--	--
01S 22E 03DDA1	07-20-99	--	--	--	--	--	--	--	--
02S 29E 18CCA1	07-28-99	--	--	--	--	--	--	--	--
03N 18E 18AAA1	07-13-99	--	--	--	--	--	--	--	--
04N 17E 12ADB1	07-13-99	--	--	--	--	--	--	--	--
04N 18E 30ADB3	07-13-99	--	--	--	--	--	--	--	--
BONNEVILLE COUNTY									
01N 39E 36AAC1	08-25-99	--	--	--	--	--	--	--	--
01N 44E 17ADA1	08-30-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
01S 45E 17CAA1	08-26-99	--	--	--	--	--	--	--	--
02N 37E 21CDD1	08-19-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
02N 38E 18CBC1	08-11-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
02N 42E 05AAD2	08-30-99	--	--	--	--	--	--	--	--
03N 34E 13BDD1	08-11-99	--	--	--	--	--	--	--	--
03N 36E 08BAD1	07-01-99	--	--	--	--	--	--	--	--
03N 40E 02AAC1	08-19-99	--	--	--	--	--	--	--	--
04S 43E 36BCB1	06-25-99	--	--	--	--	--	--	--	--

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
				BUTTE COUNTY					
06N 25E 36DBB1	434820113252801	09-03-99	0920	24.00	260	7.8	10.5	12.8	12.9
07N 27E 12AAB1	435728113103701	09-02-99	1100	--	346	7.9	15.0	8.5	7.7
				CAMAS COUNTY					
01N 15E 35BDD1	432236114381801	07-16-99	1200	--	164	7.2	25.0	12.3	8.5
01S 14E 11CCC1	432033114461401	07-16-99	1500	2.17	113	7.0	28.0	10.7	.0
01S 15E 19BCB2	431926114423202	07-16-99	1330	16.90	126	7.7	27.0	14.9	.0
				CARIBOU COUNTY					
05S 43E 11BCB1	430012111232701	06-25-99	1250	--	620	7.2	19.0	9.9	.4
06S 42E 01DAC1	425523111282801	06-25-99	1725	8.11	293	7.0	20.0	8.2	6.9
07S 39E 19BDA1	424817111564601	06-27-99	1300	19.20	911	7.3	21.0	8.4	2.0
07S 42E 06CCC1	425015111360301	06-26-99	1115	--	466	7.0	18.0	8.8	.1
08S 40E 21DAA1	424248111464301	06-27-99	1020	--	1080	6.9	17.0	10.2	5.0
08S 41E 02DDC1	424506111373101	06-26-99	1345	--	805	6.6	21.0	8.6	4.6
09S 40E 19BAA1	423805111493901	06-24-99	0925	102.40	1420	7.2	19.0	10.5	7.5
09S 41E 13CCC1	423806111371601	06-26-99	1550	83.19	541	7.2	22.0	8.6	8.6
				CASSIA COUNTY					
09S 25E 19ADA1	423748113341301	08-09-99	1445	--	607	7.6	36.0	16.0	6.5
09S 27E 25DDB1	423626113141301	08-17-99	1710	--	497	7.5	37.0	14.7	.0
10S 21E 34DDD1	423017113581301	08-16-99	1450	--	684	7.4	27.0	17.0	6.8
10S 24E 23AAD1	423242113363301	09-07-99	1425	22.49	580	7.5	23.0	14.1	--
10S 27E 02ABB2	423516113154501	08-17-99	1405	--	602	7.3	34.0	21.1	4.2
10S 27E 26DAC1	423114113152601	08-17-99	1130	--	869	7.1	32.0	13.1	5.4
11S 22E 14BAB1	422831113504701	08-11-99	1155	--	1040	7.6	22.0	14.7	8.6
11S 23E 11CDD1	422828113440401	09-07-99	1145	9.75	772	7.4	16.0	13.7	--
11S 23E 16CCB1	422746113464901	09-07-99	0955	--	733	7.2	18.0	13.9	--
11S 28E 18ACD1	422753113130701	08-18-99	1345	--	541	7.5	32.0	18.9	7.0
12S 22E 07ADD2	422343113544601	08-16-99	1140	--	682	7.3	22.0	13.9	7.8
14S 27E 17BBB1	421243113195701	09-08-99	1430	--	1520	7.2	24.0	11.3	--
14S 27E 17CAA1	421216113192401	08-18-99	1650	--	1110	7.4	32.0	15.6	4.0
15S 24E 15CCB1	420649113384801	09-08-99	1150	--	395	6.6	15.0	10.4	--
				CLARK COUNTY					
09N 36E 30ACC1	440451112154601	07-23-99	0930	--	359	7.9	18.5	14.1	7.7
10N 37E 01CAD1	441315112023701	09-10-99	0800	--	218	8.2	12.0	13.1	6.4
10N 37E 09DCD1	441209112055501	09-10-99	1020	--	252	8.1	17.9	15.1	7.0
12N 39E 05CCB2	442335111532601	07-23-99	1205	--	204	7.7	25.7	7.5	5.0
				CUSTER COUNTY					
07N 20E 33CDD1	435311114060101	08-31-99	1210	--	339	7.8	16.0	8.7	8.7
07N 23E 02DDA1	435739113405701	08-31-99	1015	--	281	8.0	13.0	7.8	9.5
07N 24E 28CDD1	435408113364001	09-03-99	1045	--	351	7.7	12.5	9.0	4.4
09N 22E 06CCD2	440801113541601	08-31-99	1430	14.73	536	7.6	18.5	8.2	8.7
				FRANKLIN COUNTY					
12S 40E 12CCB2	422323111441601	06-22-99	1835	14.96	379	7.4	23.0	10.1	.6
12S 40E 36AAD1	422023111431601	06-22-99	1630	62.38	2320	6.2	27.0	18.0	1.6
14S 38E 22BDD1	421130112001001	06-29-99	1620	--	566	7.7	27.0	12.0	--
16S 40E 17BBB1	420233111490101	06-29-99	1410	--	921	7.5	28.0	12.0	.7
				FREMONT COUNTY					
08N 37E 29CAC1	435923112075401	07-19-99	1100	--	290	8.1	23.0	15.1	6.3
08N 38E 08BCC1	440212112005201	07-19-99	1315	--	302	8.4	26.5	19.1	7.3
08N 40E 30ABA1	435954111465601	06-24-99	0935	--	220	7.2	20.5	12.6	.4
08N 41E 32ABC1	435856111385001	07-30-99	1150	--	317	7.1	25.6	14.8	7.7
08N 41E 33ABB2	435904111373102	06-23-99	1405	--	240	7.1	22.5	13.0	13.2

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
BUTTE COUNTY										
06N 25E 36DBB1	09-03-99	<1	130	38	7.3	5.4	1.3	140	0	116
07N 27E 12AAB1	09-02-99	<1	170	43	14	6.2	.87	180	0	149
CAMAS COUNTY										
01N 15E 35BDD1	07-16-99	<1	56	15	4.5	9.7	1.1	62	0	51
01S 14E 11CCC1	07-16-99	<1	39	9.1	3.9	8.4	.64	68	0	55
01S 15E 19BCB2	07-16-99	<1	37	10	2.7	11	1.2	82	0	67
CARIBOU COUNTY										
05S 43E 11BCB1	06-25-99	<1	220	55	19	50	2.3	330	0	273
06S 42E 01DAC1	06-25-99	<1	130	36	8.5	7.8	1.0	100	0	84
07S 39E 19BDA1	06-27-99	<1	370	100	27	46	4.1	300	0	249
07S 42E 06CCC1	06-26-99	<1	230	61	19	7.6	2.3	220	0	180
08S 40E 21DAA1	06-27-99	<1	570	130	61	19	3.9	580	0	478
08S 41E 02DDC1	06-26-99	<1	390	77	48	23	4.7	360	0	294
09S 40E 19BAA1	06-24-99	<1	650	110	94	59	13	680	0	557
09S 41E 13CCC1	06-26-99	<1	270	68	23	14	2.4	230	0	192
CASSIA COUNTY										
09S 25E 19ADA1	08-09-99	<1	230	56	23	31	6.3	250	0	207
09S 27E 25DDB1	08-17-99	<1	220	51	21	17	3.2	220	0	184
10S 21E 34DDD1	08-16-99	<1	260	75	16	31	7.7	190	0	156
10S 24E 23AAD1	09-07-99	<1	230	59	21	30	6.2	240	0	195
10S 27E 02ABB2	08-17-99	<1	160	40	14	47	14	200	0	164
10S 27E 26DAC1	08-17-99	<1	250	62	24	68	9.6	240	0	199
11S 22E 14BAB1	08-11-99	<1	290	66	30	119	6.8	390	0	319
11S 23E 11CDD1	09-07-99	<1	310	76	31	41	9.2	340	0	297
11S 23E 16CCB1	09-07-99	<1	270	81	15	49	8.4	290	0	237
11S 28E 18ACD1	08-18-99	<1	230	59	20	14	9.4	220	0	185
12S 22E 07ADD2	08-16-99	<1	290	94	13	20	7.0	240	0	198
14S 27E 17BBB1	09-08-99	<1	450	140	24	134	7.7	300	0	245
14S 27E 17CAA1	08-18-99	<1	350	96	27	69	12	170	0	142
15S 24E 15CCB1	09-08-99	K2	130	38	8.6	26	1.7	100	0	84
CLARK COUNTY										
09N 36E 30ACC1	07-23-99	<1	140	35	12	15	2.6	160	0	132
10N 37E 01CAD1	09-10-99	K1	94	24	8.3	8.9	2.2	120	0	98
10N 37E 09DCD1	09-10-99	<1	110	24	11	11	2.1	140	0	116
12N 39E 05CCB2	07-23-99	<1	90	27	5.2	4.0	2.2	120	0	101
CUSTER COUNTY										
07N 20E 33CDD1	08-31-99	<1	160	40	14	7.6	1.2	190	0	159
07N 23E 02DDA1	08-31-99	<1	130	34	11	5.2	1.1	150	0	123
07N 24E 28CDD1	09-03-99	--	170	50	9.5	8.6	1.2	190	0	158
09N 22E 06CCD2	08-31-99	<1	280	73	24	2.2	1.2	300	0	246
FRANKLIN COUNTY										
12S 40E 12CCB2	06-22-99	<1	150	45	10	16	2.7	180	0	150
12S 40E 36AAD1	06-22-99	<1	580	160	43	223	40	420	0	346
14S 38E 22BDD1	06-29-99	K6	250	72	18	15	4.2	270	0	222
16S 40E 17BBB1	06-29-99	<1	180	36	22	113	8.7	320	0	264
FREMONT COUNTY										
08N 37E 29CAC1	07-19-99	<1	110	30	8.7	14	2.8	140	0	116
08N 38E 08BCC1	07-19-99	<1	120	29	12	12	2.3	140	0	114
08N 40E 30ABA1	06-24-99	--	86	22	7.7	12	3.0	110	0	86
08N 41E 32ABC1	07-30-99	K2	120	33	8.9	14	3.5	140	0	115
08N 41E 33ABB2	06-23-99	--	93	24	8.0	16	2.7	130	0	105

K Results based on counts outside ideal colony range.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
BUTTE COUNTY										
06N 25E 36DBB1	09-03-99	12	1.9	.16	19	156	.21	<.010	.253	<.020
07N 27E 12AAB1	09-02-99	14	7.6	.10	15	192	.26	<.010	.330	<.020
CAMAS COUNTY										
01N 15E 35BDD1	07-16-99	2.8	2.6	.17	31	124	.17	<.010	6.02	.038
01S 14E 11CCC1	07-16-99	2.0	1.3	.12	29	88	.12	<.010	<.050	<.020
01S 15E 19BCB2	07-16-99	<.10	1.4	.14	54	--	--	<.010	<.050	1.03
CARIBOU COUNTY										
05S 43E 11BCB1	06-25-99	10	15	.26	12	329	.45	<.010	<.050	.037
06S 42E 01DAC1	06-25-99	9.9	6.8	.17	25	177	.24	<.010	6.91	<.020
07S 39E 19BDA1	06-27-99	76	71	.20	24	507	.69	<.010	1.49	<.020
07S 42E 06CCC1	06-26-99	17	7.3	.40	23	247	.34	<.010	<.050	.050
08S 40E 21DAA1	06-27-99	27	14	.13	25	581	.79	<.010	3.46	.023
08S 41E 02DDC1	06-26-99	39	15	.26	38	443	.60	<.010	4.84	<.020
09S 40E 19BAA1	06-24-99	130	54	.36	35	840	1.14	<.010	3.69	<.020
09S 41E 13CCC1	06-26-99	18	13	.19	23	293	.40	<.010	3.47	<.020
CASSIA COUNTY										
09S 25E 19ADA1	08-09-99	49	26	.57	35	369	.50	<.010	4.23	<.020
09S 27E 25DDB1	08-17-99	18	34	.15	26	282	.38	<.010	.244	<.020
10S 21E 34DDD1	08-16-99	66	69	.24	53	424	.58	<.010	2.89	<.020
10S 24E 23AAD1	09-07-99	48	28	.61	34	364	.50	<.010	4.39	<.020
10S 27E 02ABB2	08-17-99	14	75	.85	73	377	.51	<.010	.331	<.020
10S 27E 26DAC1	08-17-99	53	120	.63	64	522	.71	<.010	.804	<.020
11S 22E 14BAB1	08-11-99	93	60	.73	46	656	.89	<.010	9.53	<.020
11S 23E 11CDD1	09-07-99	54	19	.51	54	509	.69	<.010	12.8	<.020
11S 23E 16CCB1	09-07-99	60	32	.23	47	476	.65	<.010	9.24	<.020
11S 28E 18ACD1	08-18-99	15	48	.18	68	348	.47	<.010	.632	<.020
12S 22E 07ADD2	08-16-99	35	59	.16	46	413	.56	<.010	4.65	<.020
14S 27E 17BBB1	09-08-99	71	290	.70	45	865	1.18	<.010	1.85	<.020
14S 27E 17CAA1	08-18-99	49	220	.47	66	629	.86	<.010	1.09	<.020
15S 24E 15CCB1	09-08-99	8.8	62	.11	33	230	.31	<.010	.449	<.020
CLARK COUNTY										
09N 36E 30ACC1	07-23-99	16	15	.35	34	224	.30	<.010	3.16	<.020
10N 37E 01CAD1	09-10-99	4.3	5.2	.23	38	153	.21	<.010	.624	<.020
10N 37E 09DCD1	09-10-99	3.8	6.4	.34	41	173	.24	<.010	.759	<.020
12N 39E 05CCB2	07-23-99	1.5	2.2	.16	37	143	.19	<.010	.409	<.020
CUSTER COUNTY										
07N 20E 33CDD1	08-31-99	17	1.9	.15	12	189	.26	<.010	<.050	<.020
07N 23E 02DDA1	08-31-99	16	3.0	.28	11	156	.21	<.010	.124	<.020
07N 24E 28CDD1	09-03-99	15	4.2	.31	17	201	.27	<.010	.159	<.020
09N 22E 06CCD2	08-31-99	18	8.6	.29	15	303	.41	<.010	2.75	<.020
FRANKLIN COUNTY										
12S 40E 12CCB2	06-22-99	15	13	.28	38	232	.32	<.010	<.050	.539
12S 40E 36AAD1	06-22-99	310	280	.69	17	1300	1.77	.032	1.56	.144
14S 38E 22BDD1	06-29-99	18	15	.14	28	313	.43	<.010	1.77	.095
16S 40E 17BBB1	06-29-99	9.4	110	1.2	54	514	.70	<.010	<.050	1.11
FREMONT COUNTY										
08N 37E 29CAC1	07-19-99	6.6	7.8	1.0	41	193	.26	<.010	2.58	.027
08N 38E 08BCC1	07-19-99	6.3	13	.71	42	196	.27	<.010	2.32	<.020
08N 40E 30ABA1	06-24-99	9.1	5.0	.60	52	177	.24	<.010	2.96	<.020
08N 41E 32ABC1	07-30-99	7.0	9.4	1.2	38	208	.28	<.010	5.24	<.020
08N 41E 33ABB2	06-23-99	2.9	6.6	1.5	43	171	.23	<.010	.867	<.020

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
BUTTE COUNTY										
06N 25E 36DBB1	09-03-99	.036	3	98	<1.0	--	<1.0	<10	<1.0	<2.2
07N 27E 12AAB1	09-02-99	<.010	1	68	<1.0	--	<1.0	E5.2	<1.0	<2.2
CAMAS COUNTY										
01N 15E 35BDD1	07-16-99	.032	<1	28	<1.0	--	<1.0	<10	<1.0	<3.0
01S 14E 11CCC1	07-16-99	.019	<1	21	<1.0	--	<1.0	220	<1.0	9.6
01S 15E 19BCB2	07-16-99	.108	<1	30	<1.0	--	<1.0	710	<1.0	343
CARIBOU COUNTY										
05S 43E 11BCB1	06-25-99	<.010	6	376	<1.0	<1.0	<1.0	110	<1.0	61
06S 42E 01DAC1	06-25-99	.106	<1	44	<1.0	1.6	<1.0	<10	<1.0	<3.0
07S 39E 19BDA1	06-27-99	.062	1	91	<1.0	<1.0	2.2	25	<1.0	75
07S 42E 06CCC1	06-26-99	.124	<1	28	<1.0	<1.0	1.4	18	<1.0	1490
08S 40E 21DAA1	06-27-99	.044	2	118	<1.0	1.9	1.6	<10	<1.0	<3.0
08S 41E 02DDC1	06-26-99	.235	<1	35	<1.0	1.1	7.2	35	<1.0	<3.0
09S 40E 19BAA1	06-24-99	.110	2	113	<1.0	1.9	4.6	E5.0	<1.0	<3.0
09S 41E 13CCC1	06-26-99	.042	<1	45	<1.0	<1.0	1.9	<10	1.6	<3.0
CASSIA COUNTY										
09S 25E 19ADA1	08-09-99	.015	3	59	<1.0	--	1.7	<10	<1.0	<2.2
09S 27E 25DDB1	08-17-99	<.010	<1	120	<1.0	--	<1.0	<10	<1.0	<2.2
10S 21E 34DDD1	08-16-99	.018	2	122	<1.0	--	<1.0	<10	<1.0	<2.2
10S 24E 23AAD1	09-07-99	.041	2	79	<1.0	--	1.9	<10	<1.0	E1.9
10S 27E 02ABB2	08-17-99	.010	3	216	<1.0	--	1.7	<10	<1.0	E1.7
10S 27E 26DAC1	08-17-99	.024	2	118	<1.0	--	<1.0	<10	<1.0	<2.2
11S 22E 14BAB1	08-11-99	.059	12	113	<1.0	--	4.1	<10	<1.0	<3.0
11S 23E 11CDD1	09-07-99	.045	6	38	<1.0	--	1.8	<10	<1.0	<2.2
11S 23E 16CCB1	09-07-99	.040	2	157	<1.0	--	1.7	<10	<1.0	2.4
11S 28E 18ACD1	08-18-99	.012	2	165	<1.0	--	<1.0	<10	<1.0	<2.2
12S 22E 07ADD2	08-16-99	.032	1	168	<1.0	--	1.6	<10	<1.0	<2.2
14S 27E 17BBB1	09-08-99	.015	2	214	<1.0	--	2.4	<10	<1.0	<2.2
14S 27E 17CAA1	08-18-99	<.010	5	135	<1.0	--	<1.0	<10	<1.0	<2.2
15S 24E 15CCB1	09-08-99	.014	<1	80	<1.0	--	3.2	38	<1.0	13
CLARK COUNTY										
09N 36E 30ACC1	07-23-99	.014	2	30	<1.0	--	1.6	<10	<1.0	<3.0
10N 37E 01CAD1	09-10-99	.015	1	8.6	<1.0	--	1.1	10	<1.0	8.0
10N 37E 09DCD1	09-10-99	<.010	2	4.9	<1.0	--	<1.0	<10	<1.0	<2.2
12N 39E 05CCB2	07-23-99	.034	2	39	<1.0	--	<1.0	<10	<1.0	<3.0
CUSTER COUNTY										
07N 20E 33CDD1	08-31-99	<.010	4	97	<1.0	--	1.6	170	<1.0	7.4
07N 23E 02DDA1	08-31-99	<.010	2	88	<1.0	--	1.6	<10	<1.0	<2.2
07N 24E 28CDD1	09-03-99	<.010	1	122	<1.0	--	<1.0	11	<1.0	<2.2
09N 22E 06CCD2	08-31-99	.047	2	170	<1.0	--	1.8	<10	<1.0	<2.2
FRANKLIN COUNTY										
12S 40E 12CCB2	06-22-99	.089	5	64	<1.0	<1.0	<1.0	1100	<1.0	123
12S 40E 36AAD1	06-22-99	<.010	<1	20	<1.0	<5.0	1.3	6100	<1.0	100
14S 38E 22BDD1	06-29-99	.054	<1	44	<1.0	<1.0	<1.0	E5.1	<1.0	22
16S 40E 17BBB1	06-29-99	.084	<1	45	<1.0	<1.0	<1.0	38	<1.0	58
FREMONT COUNTY										
08N 37E 29CAC1	07-19-99	.010	1	3.7	<1.0	<1.0	<1.0	<10	<1.0	<3.0
08N 38E 08BCC1	07-19-99	.012	1	2.4	<1.0	1.5	<1.0	<10	<1.0	<3.0
08N 40E 30ABA1	06-24-99	.102	<1	18	<1.0	<1.0	2.0	E5.7	<1.0	E1.5
08N 41E 32ABC1	07-30-99	.044	<1	38	<1.0	--	7.6	15	<1.0	E1.9
08N 41E 33ABB2	06-23-99	.030	3	17	<1.0	<1.0	5.3	<10	<1.0	<3.0

E Positive detection, but below stated detection limit.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	PROPCHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	PROMETON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)
BUTTE COUNTY									
06N 25E 36DBB1	09-03-99	<1	E16	--	--	--	--	--	--
07N 27E 12AAB1	09-02-99	1	<20	--	--	--	--	--	--
CAMAS COUNTY									
01N 15E 35BDD1	07-16-99	<1	E12	--	--	--	--	--	--
01S 14E 11CCC1	07-16-99	<1	E17	--	--	--	--	--	--
01S 15E 19BCB2	07-16-99	1	54	--	--	--	--	--	--
CARIBOU COUNTY									
05S 43E 11BCB1	06-25-99	<1	103	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
06S 42E 01DAC1	06-25-99	<1	33	<.0070	<.0020	<.0050	E.0097	E.0118	<.0040
07S 39E 19BDA1	06-27-99	2	28	--	--	--	--	--	--
07S 42E 06CCC1	06-26-99	<1	31	--	--	--	--	--	--
08S 40E 21DAA1	06-27-99	<1	<20	--	--	--	--	--	--
08S 41E 02DDC1	06-26-99	<1	<20	<.0070	<.0020	.0336	.964	E.0030	<.0040
09S 40E 19BAA1	06-24-99	2	30	--	--	--	--	--	--
09S 41E 13CCC1	06-26-99	<1	215	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
CASSIA COUNTY									
09S 25E 19ADA1	08-09-99	<2	42	--	--	--	--	--	--
09S 27E 25DDB1	08-17-99	2	<20	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
10S 21E 34DDD1	08-16-99	<1	<20	--	--	--	--	--	--
10S 24E 23AAD1	09-07-99	<1	43	<.0070	<.0020	.0133	<.0180	E.0230	<.0040
10S 27E 02ABB2	08-17-99	<1	<20	--	--	--	--	--	--
10S 27E 26DAC1	08-17-99	3	<20	--	--	--	--	--	--
11S 22E 14BAB1	08-11-99	1	39	--	--	--	--	--	--
11S 23E 11CDD1	09-07-99	<1	<20	--	--	--	--	--	--
11S 23E 16CCB1	09-07-99	<1	144	--	--	--	--	--	--
11S 28E 18ACD1	08-18-99	2	<20	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
12S 22E 07ADD2	08-16-99	<1	<20	<.0070	<.0020	<.0050	<.0180	E.0043	<.0040
14S 27E 17BBB1	09-08-99	2	<20	--	--	--	--	--	--
14S 27E 17CAA1	08-18-99	2	<20	--	--	--	--	--	--
15S 24E 15CCB1	09-08-99	<1	<20	--	--	--	--	--	--
CLARK COUNTY									
09N 36E 30ACC1	07-23-99	<1	<20	--	--	--	--	--	--
10N 37E 01CAD1	09-10-99	<1	61	--	--	--	--	--	--
10N 37E 09DCD1	09-10-99	<1	129	--	--	--	--	--	--
12N 39E 05CCB2	07-23-99	<1	<20	--	--	--	--	--	--
CUSTER COUNTY									
07N 20E 33CDD1	08-31-99	<1	E15	--	--	--	--	--	--
07N 23E 02DDA1	08-31-99	2	<20	--	--	--	--	--	--
07N 24E 28CDD1	09-03-99	<1	35	--	--	--	--	--	--
09N 22E 06CCD2	08-31-99	4	120	--	--	--	--	--	--
FRANKLIN COUNTY									
12S 40E 12CCB2	06-22-99	<1	113	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
12S 40E 36AAD1	06-22-99	<1	862	<.0070	<.0020	.0060	<.0180	E.0027	<.0040
14S 38E 22BDD1	06-29-99	<1	<20	<.0070	<.0020	<.0050	<.0180	E.0102	<.0040
16S 40E 17BBB1	06-29-99	<1	<20	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
FREMONT COUNTY									
08N 37E 29CAC1	07-19-99	<1	<20	--	--	--	--	--	--
08N 38E 08BCC1	07-19-99	<1	E7.9	--	--	--	--	--	--
08N 40E 30ABA1	06-24-99	<1	<20	--	--	--	--	--	--
08N 41E 32ABC1	07-30-99	<1	243	--	--	--	--	--	--
08N 41E 33ABB2	06-23-99	<1	26	--	--	--	--	--	--

E Positive detection, but below stated detection limit.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DISSOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	LINDANE DISSOLVED (UG/L) (39341)	DIELDRIN DISSOLVED (UG/L) (39381)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	MALATHION, DISSOLVED (UG/L) (39532)
CARIBOU COUNTY									
05S 43E 11BCB1	06-25-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
06S 42E 01DAC1	06-25-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
07S 39E 19BDA1	06-27-99	--	--	--	--	--	--	--	--
07S 42E 06CCC1	06-26-99	--	--	--	--	--	--	--	--
08S 40E 21DAA1	06-27-99	--	--	--	--	--	--	--	--
08S 41E 02DDC1	06-26-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
09S 40E 19BAA1	06-24-99	--	--	--	--	--	--	--	--
09S 41E 13CCC1	06-26-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
CASSIA COUNTY									
09S 25E 19ADA1	08-09-99	--	--	--	--	--	--	--	--
09S 27E 25DDB1	08-17-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
10S 21E 34DDD1	08-16-99	--	--	--	--	--	--	--	--
10S 24E 23AAD1	09-07-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
10S 27E 02ABB2	08-17-99	--	--	--	--	--	--	--	--
10S 27E 26DAC1	08-17-99	--	--	--	--	--	--	--	--
11S 22E 14BAB1	08-11-99	--	--	--	--	--	--	--	--
11S 23E 11CDD1	09-07-99	--	--	--	--	--	--	--	--
11S 23E 16CCB1	09-07-99	--	--	--	--	--	--	--	--
11S 28E 18ACD1	08-18-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
12S 22E 07ADD2	08-16-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	.005	<.005
14S 27E 17BBB1	09-08-99	--	--	--	--	--	--	--	--
14S 27E 17CAA1	08-18-99	--	--	--	--	--	--	--	--
15S 24E 15CCB1	09-08-99	--	--	--	--	--	--	--	--
FRANKLIN COUNTY									
12S 40E 12CCB2	06-22-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
12S 40E 36AAD1	06-22-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
14S 38E 22BDD1	06-29-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
16S 40E 17BBB1	06-29-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005

LOCAL IDENTIFIER	DATE	PARATHION, DISSOLVED (UG/L) (39542)	DIAZINON, DISSOLVED (UG/L) (39572)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
CARIBOU COUNTY									
05S 43E 11BCB1	06-25-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
06S 42E 01DAC1	06-25-99	<.004	<.002	.019	<.002	<.004	<.0030	<.0020	<.0040
07S 39E 19BDA1	06-27-99	--	--	--	--	--	--	--	--
07S 42E 06CCC1	06-26-99	--	--	--	--	--	--	--	--
08S 40E 21DAA1	06-27-99	--	--	--	--	--	--	--	--
08S 41E 02DDC1	06-26-99	<.004	<.002	E.004	<.002	<.004	<.0030	<.0020	<.0040
09S 40E 19BAA1	06-24-99	--	--	--	--	--	--	--	--
09S 41E 13CCC1	06-26-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
CASSIA COUNTY									
09S 25E 19ADA1	08-09-99	--	--	--	--	--	--	--	--
09S 27E 25DDB1	08-17-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
10S 21E 34DDD1	08-16-99	--	--	--	--	--	--	--	--
10S 24E 23AAD1	09-07-99	<.004	<.002	.033	<.002	<.004	<.0030	<.0020	<.0040
10S 27E 02ABB2	08-17-99	--	--	--	--	--	--	--	--
10S 27E 26DAC1	08-17-99	--	--	--	--	--	--	--	--
11S 22E 14BAB1	08-11-99	--	--	--	--	--	--	--	--
11S 23E 11CDD1	09-07-99	--	--	--	--	--	--	--	--
11S 23E 16CCB1	09-07-99	--	--	--	--	--	--	--	--
11S 28E 18ACD1	08-18-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
12S 22E 07ADD2	08-16-99	<.004	<.002	.012	<.002	<.004	<.0030	<.0020	<.0040
14S 27E 17BBB1	09-08-99	--	--	--	--	--	--	--	--
14S 27E 17CAA1	08-18-99	--	--	--	--	--	--	--	--
15S 24E 15CCB1	09-08-99	--	--	--	--	--	--	--	--
FRANKLIN COUNTY									
12S 40E 12CCB2	06-22-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
12S 40E 36AAD1	06-22-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
14S 38E 22BDD1	06-29-99	<.004	<.002	.008	<.002	<.004	<.0030	<.0020	<.0040
16S 40E 17BBB1	06-29-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040

E Positive detection, but below stated detection limit.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARATHION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEBULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
CARIBOU COUNTY									
05S 43E 11BCB1	06-25-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
06S 42E 01DAC1	06-25-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
07S 39E 19BDA1	06-27-99	--	--	--	--	--	--	--	--
07S 42E 06CCC1	06-26-99	--	--	--	--	--	--	--	--
08S 40E 21DAA1	06-27-99	--	--	--	--	--	--	--	--
08S 41E 02DDC1	06-26-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
09S 40E 19BAA1	06-24-99	--	--	--	--	--	--	--	--
09S 41E 13CCC1	06-26-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
CASSIA COUNTY									
09S 25E 19ADA1	08-09-99	--	--	--	--	--	--	--	--
09S 27E 25DDB1	08-17-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
10S 21E 34DDD1	08-16-99	--	--	--	--	--	--	--	--
10S 24E 23AAD1	09-07-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
10S 27E 02ABB2	08-17-99	--	--	--	--	--	--	--	--
10S 27E 26DAC1	08-17-99	--	--	--	--	--	--	--	--
11S 22E 14BAB1	08-11-99	--	--	--	--	--	--	--	--
11S 23E 11CDD1	09-07-99	--	--	--	--	--	--	--	--
11S 23E 16CCB1	09-07-99	--	--	--	--	--	--	--	--
11S 28E 18ACD1	08-18-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
12S 22E 07ADD2	08-16-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
14S 27E 17BBB1	09-08-99	--	--	--	--	--	--	--	--
14S 27E 17CAA1	08-18-99	--	--	--	--	--	--	--	--
15S 24E 15CCB1	09-08-99	--	--	--	--	--	--	--	--
FRANKLIN COUNTY									
12S 40E 12CCB2	06-22-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
12S 40E 36AAD1	06-22-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
14S 38E 22BDD1	06-29-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
16S 40E 17BBB1	06-29-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040

LOCAL IDENTIFIER	DATE	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TERBUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
CARIBOU COUNTY									
05S 43E 11BCB1	06-25-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
06S 42E 01DAC1	06-25-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
07S 39E 19BDA1	06-27-99	--	--	--	--	--	--	--	--
07S 42E 06CCC1	06-26-99	--	--	--	--	--	--	--	--
08S 40E 21DAA1	06-27-99	--	--	--	--	--	--	--	--
08S 41E 02DDC1	06-26-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	E.0037	<.0040
09S 40E 19BAA1	06-24-99	--	--	--	--	--	--	--	--
09S 41E 13CCC1	06-26-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
CASSIA COUNTY									
09S 25E 19ADA1	08-09-99	--	--	--	--	--	--	--	--
09S 27E 25DDB1	08-17-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
10S 21E 34DDD1	08-16-99	--	--	--	--	--	--	--	--
10S 24E 23AAD1	09-07-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
10S 27E 02ABB2	08-17-99	--	--	--	--	--	--	--	--
10S 27E 26DAC1	08-17-99	--	--	--	--	--	--	--	--
11S 22E 14BAB1	08-11-99	--	--	--	--	--	--	--	--
11S 23E 11CDD1	09-07-99	--	--	--	--	--	--	--	--
11S 23E 16CCB1	09-07-99	--	--	--	--	--	--	--	--
11S 28E 18ACD1	08-18-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
12S 22E 07ADD2	08-16-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
14S 27E 17BBB1	09-08-99	--	--	--	--	--	--	--	--
14S 27E 17CAA1	08-18-99	--	--	--	--	--	--	--	--
15S 24E 15CCB1	09-08-99	--	--	--	--	--	--	--	--
FRANKLIN COUNTY									
12S 40E 12CCB2	06-22-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
12S 40E 36AAD1	06-22-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
14S 38E 22BDD1	06-29-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
16S 40E 17BBB1	06-29-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040

E Positive detection, but below stated detection limit.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PROPARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PERMETHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
CARIBOU COUNTY									
05S 43E 11BCB1	06-25-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
06S 42E 01DAC1	06-25-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
07S 39E 19BDA1	06-27-99	--	--	--	--	--	--	--	--
07S 42E 06CCC1	06-26-99	--	--	--	--	--	--	--	--
08S 40E 21DAA1	06-27-99	--	--	--	--	--	--	--	--
08S 41E 02DDC1	06-26-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
09S 40E 19BAA1	06-24-99	--	--	--	--	--	--	--	--
09S 41E 13CCC1	06-26-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
CASSIA COUNTY									
09S 25E 19ADA1	08-09-99	--	--	--	--	--	--	--	--
09S 27E 25DDB1	08-17-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
10S 21E 34DDD1	08-16-99	--	--	--	--	--	--	--	--
10S 24E 23AAD1	09-07-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
10S 27E 02ABB2	08-17-99	--	--	--	--	--	--	--	--
10S 27E 26DAC1	08-17-99	--	--	--	--	--	--	--	--
11S 22E 14BAB1	08-11-99	--	--	--	--	--	--	--	--
11S 23E 11CDD1	09-07-99	--	--	--	--	--	--	--	--
11S 23E 16CCB1	09-07-99	--	--	--	--	--	--	--	--
11S 28E 18ACD1	08-18-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
12S 22E 07ADD2	08-16-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
14S 27E 17BBB1	09-08-99	--	--	--	--	--	--	--	--
14S 27E 17CAA1	08-18-99	--	--	--	--	--	--	--	--
15S 24E 15CCB1	09-08-99	--	--	--	--	--	--	--	--
FRANKLIN COUNTY									
12S 40E 12CCB2	06-22-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
12S 40E 36AAD1	06-22-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
14S 38E 22BDD1	06-29-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
16S 40E 17BBB1	06-29-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	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)	OXYGEN, DIS-SOLVED (MG/L) (00300)
				FREMONT COUNTY					
08N 44E 33BCBD1	435843111163401	06-16-99	1330	--	531	7.6	25.5	12.2	9.8
09N 40E 29ACB1	440456111455501	06-16-99	1115	--	310	7.8	24.0	14.1	10.6
09N 41E 13BBA1	440653111341701	06-23-99	1030	--	178	6.4	20.0	9.9	3.2
11N 42E 12CBCA1	441737111271401	08-24-99	1115	--	192	6.7	22.7	6.9	4.4
12N 44E 17ACA1	442205111164201	08-10-99	1050	--	174	6.8	21.7	11.9	8.5
				GOODING COUNTY					
05S 12E 22BBB1	425851115013301	06-21-99	1300	--	966	7.5	27.0	14.9	2.8
05S 13E 32CCC1	425620114523001	06-22-99	0950	--	643	7.9	20.0	17.1	7.8
05S 14E 25CAB1	425728114444001	06-22-99	1305	105.95	739	7.5	24.0	15.2	7.2
05S 15E 07DAA1	430008114425701	06-22-99	1600	--	847	7.7	25.0	16.0	6.7
05S 15E 35DBD3	425635114382303	06-23-99	1355	--	968	7.2	24.0	17.1	6.3
07S 13E 11CAC1	424949114540401	06-08-99	1225	83.77	427	7.7	19.0	15.5	7.2
08S 14E 21ABA2	424320114485701	08-31-99	1410	--	391	7.6	13.0	14.9	7.7
08S 15E 33ABB1	424138114420801	07-28-99	1335	76.61	547	7.5	29.0	16.6	7.3
				JEFFERSON COUNTY					
04N 38E 24CDC1	433924111561401	09-15-99	1315	--	--	--	--	--	--
05N 34E 01ADBB1	434752112241701	09-03-99	1400	--	372	8.0	22.0	16.8	6.4
05N 36E 26BBB1	434429112120201	09-03-99	1000	81.28	623	7.8	10.8	9.6	7.0
05N 37E 32ADA1	434326112072201	09-03-99	1150	--	569	7.3	16.9	11.8	.3
06N 35E 02BCC1	435241112185201	09-07-99	1020	175.75	283	8.1	12.2	13.3	5.1
06N 35E 14CCC1	435031112182101	09-07-99	1430	--	676	7.6	20.0	14.4	7.2
07N 33E 13CBC1	435604112320301	09-07-99	1240	--	412	8.1	16.9	13.8	.2
07N 34E 10ACA1	435712112263201	07-21-99	1430	--	278	8.2	28.4	13.6	8.9
07N 36E 05CAA1	435753112145101	07-21-99	1130	--	287	7.8	22.6	12.6	6.1
07N 36E 31BAB1	435358112161101	07-16-99	1050	--	405	7.6	19.6	11.6	2.5
07N 37E 11BAD1	435718112040001	07-16-99	1335	--	319	8.1	26.0	12.5	7.0
08N 34E 29CCC1	435916112293601	07-22-99	1020	--	862	7.7	21.6	11.0	7.4
08N 36E 15ACA1	440127112120601	07-21-99	0910	--	363	7.8	19.8	10.6	7.7
				JEROME COUNTY					
07S 17E 16ABA1	424929114281001	07-19-99	1020	--	343	7.8	24.0	14.5	7.1
08S 16E 21AAA1	424323114343701	07-19-99	1345	200.03	651	7.8	27.0	15.3	7.2
08S 17E 30CBD1	424202114305201	07-19-99	1655	--	688	7.8	35.0	15.0	6.7
08S 20E 29CCC1	424135114084801	07-27-99	1235	--	562	7.9	36.0	14.8	8.0
09S 16E 04ADC1	424027114344601	07-28-99	1745	168.91	467	7.9	34.0	15.4	8.5
10S 18E 11AAA1	423436114181901	07-27-99	1605	235.38	756	7.7	35.5	15.2	10.2
				LINCOLN COUNTY					
04S 18E 12DDD1	430504114153501	06-28-99	1435	--	299	7.9	24.0	13.4	9.8
04S 18E 28CAA1	430249114193301	08-12-99	0835	230.82	226	7.7	18.0	12.6	8.8
04S 19E 34ABB3	430224114105601	06-28-99	1200	308.48	422	7.9	19.0	13.2	10.4
06S 18E 03BAA1	425616114181701	06-29-99	1130	--	350	7.9	21.0	14.1	7.8
06S 22E 28CDD1	425155113503901	07-21-99	1520	--	329	7.6	30.0	14.2	9.5
07S 21E 34CAD1	424609113585301	08-04-99	1045	--	567	7.7	24.0	13.4	9.0
				MADISON COUNTY					
05N 38E 02BAD1	434749111571801	06-29-99	1100	--	352	7.6	24.0	9.5	.2
05N 39E 11AAC1	434700111493501	06-21-99	1200	--	522	7.6	23.0	12.4	5.4
05N 39E 12CBA1	434631111491801	06-14-99	1210	11.79	502	7.6	22.0	11.2	5.2
06N 38E 35ABA1	434838111563301	06-29-99	1230	27.15	454	7.8	22.5	8.9	3.3
06N 39E 20DCC1	434917111530601	06-21-99	1345	--	360	7.7	25.5	13.1	4.7
06N 39E 24ACC1	435000111482201	06-14-99	1650	--	452	7.8	28.5	10.7	.0
06N 42E 10ADA1	435145111284501	06-22-99	1100	--	353	7.5	19.0	13.5	8.0
07N 39E 32CCA1	435312111533201	06-21-99	1530	22.47	295	7.8	27.0	14.2	7.0
				MINIDOKA COUNTY					
08S 25E 01DAC1	424515113282601	08-30-99	1605	--	457	7.8	25.0	12.5	7.9
09S 22E 36CDCC1	423528113493701	09-02-99	1130	236.24	383	7.8	13.0	15.8	.0
09S 23E 13ABA1	423854113423501	09-14-99	1125	--	--	--	--	--	--
09S 23E 14CCC2	423804113442902	08-09-99	1140	90.17	739	7.5	29.0	14.9	.3
09S 24E 07AAD1	423936113411301	09-14-99	1030	--	--	--	--	--	--

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
FREMONT COUNTY										
08N 44E 33BCBD1	06-16-99	<1	250	62	24	10	2.2	290	0	237
09N 40E 29ACB1	06-16-99	<1	120	32	8.7	16	3.9	160	0	128
09N 41E 13BBA1	06-23-99	--	78	20	6.8	6.0	2.2	100	0	82
11N 42E 12CBCA1	08-24-99	K1	73	19	6.0	6.1	1.2	66	0	54
12N 44E 17ACA1	08-10-99	<1	29	8.3	2.0	26	2.7	91	0	74
GOODING COUNTY										
05S 12E 22BBB1	06-21-99	<1	270	69	23	107	5.8	370	0	299
05S 13E 32CCC1	06-22-99	<1	210	61	14	51	4.0	240	0	198
05S 14E 25CAB1	06-22-99	<1	270	60	29	51	4.6	320	0	263
05S 15E 07DAA1	06-22-99	<1	340	91	29	43	4.0	310	0	251
05S 15E 35DBD3	06-23-99	<1	400	110	33	32	8.2	350	0	289
07S 13E 11CAC1	06-08-99	<1	170	37	18	20	4.4	200	0	163
08S 14E 21ABA2	08-31-99	<1	160	35	18	20	3.7	180	0	145
08S 15E 33ABB1	07-28-99	<1	200	48	21	26	4.5	260	0	217
JEFFERSON COUNTY										
04N 38E 24CDC1	09-15-99	--	--	--	--	--	--	--	--	--
05N 34E 01ADBB1	09-03-99	<1	150	41	12	14	3.2	160	0	128
05N 36E 26BBB1	09-03-99	<1	280	80	19	24	5.1	320	0	265
05N 37E 32ADA1	09-03-99	<1	250	67	20	23	2.5	290	0	235
06N 35E 02BCC1	09-07-99	<1	100	28	8.2	14	2.6	150	0	120
06N 35E 14CCC1	09-07-99	<1	260	75	19	47	4.0	390	0	317
07N 33E 13CBC1	09-07-99	<1	270	77	19	46	4.3	180	0	147
07N 34E 10ACA1	07-21-99	<1	110	27	9.0	13	2.2	140	0	112
07N 36E 05CAA1	07-21-99	<1	120	33	8.6	10	2.4	160	0	127
07N 36E 31BAB1	07-16-99	<1	180	53	12	12	2.7	230	0	192
07N 37E 11BAD1	07-16-99	<1	130	35	9.5	14	2.5	150	0	126
08N 34E 29CCC1	07-22-99	<1	290	76	25	58	4.6	290	0	241
08N 36E 15ACA1	07-21-99	<1	140	42	9.5	11	2.6	130	0	110
JEROME COUNTY										
07S 17E 16ABA1	07-19-99	<1	130	29	14	18	3.5	150	0	125
08S 16E 21AAA1	07-19-99	<1	240	60	23	32	5.2	220	0	178
08S 17E 30CBD1	07-19-99	<1	250	58	25	36	5.2	240	0	193
08S 20E 29CCC1	07-27-99	<1	200	50	19	29	4.4	190	0	157
09S 16E 04ADC1	07-28-99	<1	170	44	14	24	5.1	240	0	194
10S 18E 11AAA1	07-27-99	<1	250	55	26	55	6.8	270	0	224
LINCOLN COUNTY										
04S 18E 12DDD1	06-28-99	<1	130	33	10	12	2.2	170	0	138
04S 18E 28CAA1	08-12-99	<1	100	29	7.4	7.1	1.7	120	0	99
04S 19E 34ABB3	06-28-99	<1	170	38	18	24	3.3	250	0	201
06S 18E 03BAA1	06-29-99	<1	150	37	14	14	3.0	200	0	168
06S 22E 28CDD1	07-21-99	<1	120	27	14	16	3.2	150	0	120
07S 21E 34CAD1	08-04-99	<1	200	49	19	33	4.2	180	0	146
MADISON COUNTY										
05N 38E 02BAD1	06-29-99	<1	140	37	12	18	3.2	190	0	156
05N 39E 11AAC1	06-21-99	<1	250	74	17	12	2.7	250	0	205
05N 39E 12CBA1	06-14-99	K210	240	70	16	12	2.7	260	0	212
06N 38E 35ABA1	06-29-99	<1	200	57	14	15	3.1	200	0	162
06N 39E 20DCC1	06-21-99	<1	170	48	13	9.3	2.7	210	0	170
06N 39E 24ACC1	06-14-99	<1	220	59	17	9.6	2.1	260	0	209
06N 42E 10ADA1	06-22-99	<1	150	41	12	8.7	3.3	150	0	124
07N 39E 32CCA1	06-21-99	<1	100	31	6.6	14	12	140	0	111
MINIDOKA COUNTY										
08S 25E 01DAC1	08-30-99	<1	180	45	16	21	3.6	170	0	138
09S 22E 36CDCC1	09-02-99	<1	120	31	11	27	6.1	200	0	160
09S 23E 13ABA1	09-14-99	--	--	--	--	--	--	--	--	--
09S 23E 14CCC2	08-09-99	<1	290	80	22	38	6.3	270	0	122
09S 24E 07AAD1	09-14-99	--	--	--	--	--	--	--	--	--

K Results based on counts outside ideal colony range.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
FREMONT COUNTY										
08N 44E 33BCBD1	06-16-99	11	13	.41	39	331	.45	<.010	6.09	<.020
09N 40E 29ACB1	06-16-99	5.1	9.7	.98	22	190	.26	<.010	3.09	<.020
09N 41E 13BBA1	06-23-99	2.8	2.6	.35	38	133	.18	<.010	1.01	<.020
11N 42E 12CBCA1	08-24-99	3.5	18	.35	30	123	.17	<.010	1.29	<.020
12N 44E 17ACA1	08-10-99	1.0	4.6	2.5	42	134	.18	<.010	.093	<.020
GOODING COUNTY										
05S 12E 22BBB1	06-21-99	110	32	3.1	47	597	.81	<.010	4.07	<.020
05S 13E 32CCC1	06-22-99	60	32	.64	45	409	.56	<.010	4.90	<.020
05S 14E 25CAB1	06-22-99	70	26	.55	40	451	.61	<.010	2.64	<.020
05S 15E 07DAA1	06-22-99	110	39	.20	41	523	.71	<.010	2.80	<.020
05S 15E 35DBD3	06-23-99	61	54	.35	36	596	.81	<.010	20.6	<.020
07S 13E 11CAC1	06-08-99	27	12	.52	35	261	.35	<.010	1.63	<.020
08S 14E 21ABA2	08-31-99	32	17	.55	37	255	.35	<.010	1.24	<.020
08S 15E 33ABB1	07-28-99	48	36	.59	34	359	.49	<.010	2.50	<.020
JEFFERSON COUNTY										
04N 38E 24CDC1	09-15-99	--	--	--	--	--	--	--	--	--
05N 34E 01ADBB1	09-03-99	12	25	.42	35	228	.31	<.010	1.80	<.020
05N 36E 26BBB1	09-03-99	42	12	1.3	45	397	.54	<.010	1.92	<.020
05N 37E 32ADA1	09-03-99	41	17	1.1	36	351	.48	.012	.257	<.020
06N 35E 02BCC1	09-07-99	8.0	10	.41	35	182	.25	<.010	.613	<.020
06N 35E 14CCC1	09-07-99	18	14	.15	26	405	.55	<.010	2.85	<.020
07N 33E 13CBC1	09-07-99	17	30	.54	43	325	.44	<.010	.088	<.020
07N 34E 10ACA1	07-21-99	7.1	10	.43	34	175	.24	<.010	1.04	<.020
07N 36E 05CAA1	07-21-99	6.9	7.3	.52	32	183	.25	<.010	1.39	<.020
07N 36E 31BAB1	07-16-99	8.8	7.6	.35	32	249	.34	<.010	1.04	<.020
07N 37E 11BAD1	07-16-99	11	7.1	.95	35	206	.28	<.010	3.38	<.020
08N 34E 29CCC1	07-22-99	77	77	.31	40	514	.70	<.010	2.47	<.020
08N 36E 15ACA1	07-21-99	21	16	.28	31	224	.30	<.010	5.50	<.020
JEROME COUNTY										
07S 17E 16ABA1	07-19-99	26	11	.50	33	213	.29	<.010	.787	<.020
08S 16E 21AAA1	07-19-99	62	53	.56	38	389	.53	<.010	1.89	<.020
08S 17E 30CBD1	07-19-99	65	53	.50	35	405	.55	<.010	2.22	<.020
08S 20E 29CCC1	07-27-99	54	46	.58	31	334	.45	<.010	1.31	<.020
09S 16E 04ADC1	07-28-99	40	30	.49	54	333	.45	<.010	1.09	<.020
10S 18E 11AAA1	07-27-99	75	45	.38	44	463	.63	<.010	4.59	<.020
LINCOLN COUNTY										
04S 18E 12DDD1	06-28-99	12	4.3	.31	31	194	.26	<.010	1.52	<.020
04S 18E 28CAA1	08-12-99	9.1	2.2	.25	25	143	.19	<.010	.491	<.020
04S 19E 34ABB3	06-28-99	15	6.7	.32	32	269	.37	<.010	1.54	<.020
06S 18E 03BAA1	06-29-99	15	5.4	.34	31	223	.30	<.010	.922	<.020
06S 22E 28CDD1	07-21-99	23	14	.51	33	205	.28	<.010	.577	<.020
07S 21E 34CAD1	08-04-99	56	47	.60	32	335	.46	<.010	1.54	<.020
MADISON COUNTY										
05N 38E 02BAD1	06-29-99	11	7.3	1.6	35	225	.31	<.010	1.38	.031
05N 39E 11AAC1	06-21-99	48	14	.35	19	318	.43	<.010	1.61	<.020
05N 39E 12CBA1	06-14-99	40	11	.42	36	324	.44	<.010	2.11	<.020
06N 38E 35ABA1	06-29-99	52	15	.48	24	278	.38	<.010	.163	<.020
06N 39E 20DCC1	06-21-99	8.4	3.6	.21	32	231	.31	<.010	2.54	<.020
06N 39E 24ACC1	06-14-99	12	11	.18	18	254	.35	<.010	<.050	<.020
06N 42E 10ADA1	06-22-99	27	15	.64	43	230	.31	<.010	.957	<.020
07N 39E 32CCA1	06-21-99	7.7	5.9	1.8	45	211	.29	<.010	4.65	<.020
MINIDOKA COUNTY										
08S 25E 01DAC1	08-30-99	39	30	.61	32	273	.37	<.010	.884	<.020
09S 22E 36CDCC1	09-02-99	17	14	.46	63	266	.36	<.010	<.050	1.22
09S 23E 13ABA1	09-14-99	--	--	--	--	--	--	--	--	--
09S 23E 14CCC2	08-09-99	64	58	.33	45	456	.62	<.010	2.33	.050
09S 24E 07AAD1	09-14-99	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
FREMONT COUNTY										
08N 44E 33BCBD1	06-16-99	.066	2	43	<1.0	2.4	2.3	<10	<1.0	4.1
09N 40E 29ACB1	06-16-99	.061	1	20	<1.0	1.2	1.6	<10	<1.0	<3.0
09N 41E 13BBA1	06-23-99	.057	<1	22	<1.0	<1.0	3.4	170	<1.0	77
11N 42E 12CBCA1	08-24-99	.021	<1	6.9	<1.0	--	3.3	25	<1.0	<2.2
12N 44E 17ACA1	08-10-99	.026	<1	3.7	<1.0	--	1.4	10	<1.0	<3.0
GOODING COUNTY										
05S 12E 22BBB1	06-21-99	.078	16	50	<1.0	--	2.1	<10	<1.0	<3.0
05S 13E 32CCC1	06-22-99	.021	3	77	<1.0	--	<1.0	<10	<1.0	<3.0
05S 14E 25CAB1	06-22-99	.073	4	62	<1.0	--	2.0	<10	<1.0	<3.0
05S 15E 07DAA1	06-22-99	.023	1	76	<1.0	--	1.1	<10	<1.0	<3.0
05S 15E 35DBD3	06-23-99	.072	<1	84	<1.0	--	5.8	<10	<1.0	<3.0
07S 13E 11CAC1	06-08-99	.036	4	27	<1.0	--	1.5	<10	<1.0	<3.0
08S 14E 21ABA2	08-31-99	.012	4	22	<1.0	--	<1.0	<10	<1.0	<2.2
08S 15E 33ABB1	07-28-99	.064	2	39	<1.0	--	1.3	<10	<1.0	<3.0
JEFFERSON COUNTY										
04N 38E 24CDC1	09-15-99	--	--	--	--	--	--	--	--	--
05N 34E 01ADBB1	09-03-99	.011	4	34	<1.0	--	1.6	E6.7	<1.0	<2.2
05N 36E 26BBB1	09-03-99	.048	11	38	<1.0	--	1.4	11	<1.0	<2.2
05N 37E 32ADA1	09-03-99	.031	4	35	<1.0	--	3.0	11	<1.0	38
06N 35E 02BCC1	09-07-99	<.010	3	27	<1.0	--	<1.0	<10	<1.0	<2.2
06N 35E 14CCC1	09-07-99	.022	2	143	<1.0	--	3.6	<10	<1.0	<2.2
07N 33E 13CBC1	09-07-99	.017	19	143	<1.0	--	<1.0	<10	<1.0	<2.2
07N 34E 10ACA1	07-21-99	.023	1	18	<1.0	--	<1.0	<10	<1.0	<3.0
07N 36E 05CAA1	07-21-99	.033	1	18	<1.0	--	<1.0	<10	<1.0	<3.0
07N 36E 31BAB1	07-16-99	.034	2	64	<1.0	1.1	2.4	<10	<1.0	<3.0
07N 37E 11BAD1	07-16-99	.020	2	11	<1.0	<1.0	1.1	<10	<1.0	<3.0
08N 34E 29CCC1	07-22-99	.018	3	92	<1.0	--	1.9	<10	<1.0	<3.0
08N 36E 15ACA1	07-21-99	.057	1	55	<1.0	--	1.1	<10	<1.0	<3.0
JEROME COUNTY										
07S 17E 16ABA1	07-19-99	.019	3	19	<1.0	--	<1.0	E5.6	<1.0	<3.0
08S 16E 21AAA1	07-19-99	.015	2	59	<1.0	--	1.2	<10	1.5	<3.0
08S 17E 30CBD1	07-19-99	.019	3	61	<1.0	--	1.7	<10	<1.0	<3.0
08S 20E 29CCC1	07-27-99	.010	2	35	<1.0	--	3.2	<10	<1.0	<3.0
09S 16E 04ADC1	07-28-99	<.010	3	92	<1.0	--	<1.0	<10	<1.0	<3.0
10S 18E 11AAA1	07-27-99	.010	5	97	<1.0	--	1.2	E7.2	<1.0	<3.0
LINCOLN COUNTY										
04S 18E 12DDD1	06-28-99	.045	2	22	<1.0	<1.0	<1.0	<10	<1.0	<3.0
04S 18E 28CAA1	08-12-99	.030	<1	18	<1.0	--	1.5	<10	<1.0	<3.0
04S 19E 34ABB3	06-28-99	.031	<1	27	<1.0	<1.0	1.3	<10	1.2	<3.0
06S 18E 03BAA1	06-29-99	.027	2	34	<1.0	2.5	<1.0	<10	<1.0	<3.0
06S 22E 28CDD1	07-21-99	<.010	2	13	<1.0	--	<1.0	<10	<1.0	<3.0
07S 21E 34CAD1	08-04-99	<.010	2	36	<1.0	--	<1.0	<10	<1.0	<3.0
MADISON COUNTY										
05N 38E 02BAD1	06-29-99	.032	2	19	<1.0	<1.0	<1.0	320	<1.0	95
05N 39E 11AAC1	06-21-99	.018	<1	94	<1.0	<1.0	1.2	E5.7	<1.0	<3.0
05N 39E 12CBA1	06-14-99	<.010	<1	95	<1.0	<1.0	4.9	18	<1.0	<3.0
06N 38E 35ABA1	06-29-99	.013	<1	57	<1.0	8.1	<1.0	41	<1.0	<3.0
06N 39E 20DCC1	06-21-99	.023	<1	20	<1.0	<1.0	2.9	<10	1.6	<3.0
06N 39E 24ACC1	06-14-99	.011	<1	44	<1.0	<1.0	<1.0	280	<1.0	4.6
06N 42E 10ADA1	06-22-99	.025	<1	35	<1.0	<1.0	1.2	12	<1.0	<3.0
07N 39E 32CCA1	06-21-99	.116	3	43	<1.0	<1.0	1.0	E7.1	<1.0	<3.0
MINIDOKA COUNTY										
08S 25E 01DAC1	08-30-99	<.010	2	34	<1.0	--	<1.0	<10	<1.0	<2.2
09S 22E 36CDCC1	09-02-99	.038	<1	162	<1.0	--	<1.0	81	<1.0	153
09S 23E 13ABA1	09-14-99	--	--	--	--	--	--	--	--	--
09S 23E 14CCC2	08-09-99	.022	4	138	<1.0	--	<1.0	<10	<1.0	<3.0
09S 24E 07AAD1	09-14-99	--	--	--	--	--	--	--	--	--

E Positive detection, but below stated detection limit.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	PROPCHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	PROMETON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)
				FREMONT COUNTY					
08N 44E 33BCBD1	06-16-99	<1	116	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
09N 40E 29ACB1	06-16-99	<1	59	--	--	--	--	--	--
09N 41E 13BBA1	06-23-99	<1	157	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
11N 42E 12CBCA1	08-24-99	<1	33	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
12N 44E 17ACA1	08-10-99	<1	66	--	--	--	--	--	--
				GOODING COUNTY					
05S 12E 22BBB1	06-21-99	2	26	--	--	--	--	--	--
05S 13E 32CCC1	06-22-99	<1	23	--	--	--	--	--	--
05S 14E 25CAB1	06-22-99	<1	E11	--	--	--	--	--	--
05S 15E 07DAA1	06-22-99	<1	21	--	--	--	--	--	--
05S 15E 35DBD3	06-23-99	<1	45	--	--	--	--	--	--
07S 13E 11CAC1	06-08-99	1	140	--	--	--	--	--	--
08S 14E 21ABA2	08-31-99	1	34	--	--	--	--	--	--
08S 15E 33ABB1	07-28-99	1	22	--	--	--	--	--	--
				JEFFERSON COUNTY					
04N 38E 24CDC1	09-15-99	--	--	<.0070	<.0020	<.0050	<.0180	E.0052	<.0040
05N 34E 01ADBB1	09-03-99	2	68	--	--	--	--	--	--
05N 36E 26BBB1	09-03-99	<1	E17	--	--	--	--	--	--
05N 37E 32ADA1	09-03-99	<1	E10	--	--	--	--	--	--
06N 35E 02BCC1	09-07-99	<1	50	--	--	--	--	--	--
06N 35E 14CCC1	09-07-99	2	78	--	--	--	--	--	--
07N 33E 13CBC1	09-07-99	4	89	--	--	--	--	--	--
07N 34E 10ACA1	07-21-99	<1	E11	--	--	--	--	--	--
07N 36E 05CAA1	07-21-99	<1	<20	--	--	--	--	--	--
07N 36E 31BAB1	07-16-99	<1	<20	--	--	--	--	--	--
07N 37E 11BAD1	07-16-99	<1	<20	--	--	--	--	--	--
08N 34E 29CCC1	07-22-99	3	<20	--	--	--	--	--	--
08N 36E 15ACA1	07-21-99	<1	<20	--	--	--	--	--	--
				JEROME COUNTY					
07S 17E 16ABA1	07-19-99	<1	150	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
08S 16E 21AAA1	07-19-99	<1	117	--	--	--	--	--	--
08S 17E 30CBD1	07-19-99	<1	147	--	--	--	--	--	--
08S 20E 29CCC1	07-27-99	<1	197	<.0070	<.0020	<.0050	<.0180	E.0022	<.0040
09S 16E 04ADC1	07-28-99	<1	103	--	--	--	--	--	--
10S 18E 11AAA1	07-27-99	2	92	<.0070	<.0020	<.0050	<.0180	E.0035	<.0040
				LINCOLN COUNTY					
04S 18E 12DDD1	06-28-99	<1	69	--	--	--	--	--	--
04S 18E 28CAA1	08-12-99	<1	59	--	--	--	--	--	--
04S 19E 34ABB3	06-28-99	<1	116	--	--	--	--	--	--
06S 18E 03BAA1	06-29-99	1	22	--	--	--	--	--	--
06S 22E 28CDD1	07-21-99	1	<20	--	--	--	--	--	--
07S 21E 34CAD1	08-04-99	<1	48	--	--	--	--	--	--
				MADISON COUNTY					
05N 38E 02BAD1	06-29-99	<1	<20	--	--	--	--	--	--
05N 39E 11AAC1	06-21-99	<1	57	--	--	--	--	--	--
05N 39E 12CBA1	06-14-99	<1	34	<.0070	<.0020	.0272	<.0180	E.0162	<.0040
06N 38E 35ABA1	06-29-99	<1	21	--	--	--	--	--	--
06N 39E 20DCC1	06-21-99	<1	67	--	--	--	--	--	--
06N 39E 24ACC1	06-14-99	<1	30	<.0070	<.0020	.0179	<.0180	<.0020	<.0040
06N 42E 10ADA1	06-22-99	<1	114	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
07N 39E 32CCA1	06-21-99	<1	24	--	--	--	--	--	--
				MINIDOKA COUNTY					
08S 25E 01DAC1	08-30-99	<1	<20	--	--	--	--	--	--
09S 22E 36CDCC1	09-02-99	<1	<20	--	--	--	--	--	--
09S 23E 13ABA1	09-14-99	--	--	<.0070	<.0020	.0094	<.0180	E.0074	<.0040
09S 23E 14CCC2	08-09-99	<1	98	--	--	--	--	--	--
09S 24E 07AAD1	09-14-99	--	--	<.0070	<.0020	.0415	E.0068	E.0091	<.0040

E Positive detection, but below stated detection limit.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DISSOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	LINDANE DISSOLVED (UG/L) (39341)	DIELDRIN DISSOLVED (UG/L) (39381)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	MALATHION, DISSOLVED (UG/L) (39532)
FREMONT COUNTY									
08N 44E 33BCBD1	06-16-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
09N 40E 29ACB1	06-16-99	--	--	--	--	--	--	--	--
09N 41E 13BBA1	06-23-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
11N 42E 12CBCA1	08-24-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
12N 44E 17ACA1	08-10-99	--	--	--	--	--	--	--	--
JEFFERSON COUNTY									
04N 38E 24CDC1	09-15-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
JEROME COUNTY									
07S 17E 16ABA1	07-19-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
08S 16E 21AAA1	07-19-99	--	--	--	--	--	--	--	--
08S 17E 30CBD1	07-19-99	--	--	--	--	--	--	--	--
08S 20E 29CCC1	07-27-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	.005	<.005
09S 16E 04ADC1	07-28-99	--	--	--	--	--	--	--	--
10S 18E 11AAA1	07-27-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
MADISON COUNTY									
05N 38E 02BAD1	06-29-99	--	--	--	--	--	--	--	--
05N 39E 11AAC1	06-21-99	--	--	--	--	--	--	--	--
05N 39E 12CBA1	06-14-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
06N 38E 35ABA1	06-29-99	--	--	--	--	--	--	--	--
06N 39E 20DCC1	06-21-99	--	--	--	--	--	--	--	--
06N 39E 24ACC1	06-14-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
06N 42E 10ADA1	06-22-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
07N 39E 32CCA1	06-21-99	--	--	--	--	--	--	--	--
MINIDOKA COUNTY									
08S 25E 01DAC1	08-30-99	--	--	--	--	--	--	--	--
09S 22E 36CDCC1	09-02-99	--	--	--	--	--	--	--	--
09S 23E 13ABA1	09-14-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
09S 23E 14CCC2	08-09-99	--	--	--	--	--	--	--	--
09S 24E 07AAD1	09-14-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005

LOCAL IDENTIFIER	DATE	PARATHION, DISSOLVED (UG/L) (39542)	DIAZINON, DISSOLVED (UG/L) (39572)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
FREMONT COUNTY									
08N 44E 33BCBD1	06-16-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
09N 40E 29ACB1	06-16-99	--	--	--	--	--	--	--	--
09N 41E 13BBA1	06-23-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
11N 42E 12CBCA1	08-24-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
12N 44E 17ACA1	08-10-99	--	--	--	--	--	--	--	--
JEFFERSON COUNTY									
04N 38E 24CDC1	09-15-99	<.004	<.002	.013	<.002	<.004	<.0030	<.0020	<.0040
JEROME COUNTY									
07S 17E 16ABA1	07-19-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
08S 16E 21AAA1	07-19-99	--	--	--	--	--	--	--	--
08S 17E 30CBD1	07-19-99	--	--	--	--	--	--	--	--
08S 20E 29CCC1	07-27-99	<.004	<.002	.006	<.002	<.004	<.0030	<.0020	<.0040
09S 16E 04ADC1	07-28-99	--	--	--	--	--	--	--	--
10S 18E 11AAA1	07-27-99	<.004	<.002	.004	<.002	<.004	<.0030	<.0020	<.0040
MADISON COUNTY									
05N 38E 02BAD1	06-29-99	--	--	--	--	--	--	--	--
05N 39E 11AAC1	06-21-99	--	--	--	--	--	--	--	--
05N 39E 12CBA1	06-14-99	<.004	<.002	.056	<.002	<.004	<.0030	<.0020	<.0040
06N 38E 35ABA1	06-29-99	--	--	--	--	--	--	--	--
06N 39E 20DCC1	06-21-99	--	--	--	--	--	--	--	--
06N 39E 24ACC1	06-14-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
06N 42E 10ADA1	06-22-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
07N 39E 32CCA1	06-21-99	--	--	--	--	--	--	--	--
MINIDOKA COUNTY									
08S 25E 01DAC1	08-30-99	--	--	--	--	--	--	--	--
09S 22E 36CDCC1	09-02-99	--	--	--	--	--	--	--	--
09S 23E 13ABA1	09-14-99	<.004	<.002	.012	<.002	<.004	<.0030	<.0020	<.0040
09S 23E 14CCC2	08-09-99	--	--	--	--	--	--	--	--
09S 24E 07AAD1	09-14-99	<.004	<.002	.020	<.002	<.004	<.0030	<.0020	<.0040

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARATHION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEBULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
				FREMONT COUNTY					
08N 44E 33BCBD1	06-16-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
09N 40E 29ACB1	06-16-99	--	--	--	--	--	--	--	--
09N 41E 13BBA1	06-23-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
11N 42E 12CBCA1	08-24-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
12N 44E 17ACA1	08-10-99	--	--	--	--	--	--	--	--
				JEFFERSON COUNTY					
04N 38E 24CDC1	09-15-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	.0159	<.0040
				JEROME COUNTY					
07S 17E 16ABA1	07-19-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
08S 16E 21AAA1	07-19-99	--	--	--	--	--	--	--	--
08S 17E 30CBD1	07-19-99	--	--	--	--	--	--	--	--
08S 20E 29CCC1	07-27-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
09S 16E 04ADC1	07-28-99	--	--	--	--	--	--	--	--
10S 18E 11AAA1	07-27-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
				MADISON COUNTY					
05N 38E 02BAD1	06-29-99	--	--	--	--	--	--	--	--
05N 39E 11AAC1	06-21-99	--	--	--	--	--	--	--	--
05N 39E 12CBA1	06-14-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
06N 38E 35ABA1	06-29-99	--	--	--	--	--	--	--	--
06N 39E 20DCC1	06-21-99	--	--	--	--	--	--	--	--
06N 39E 24ACC1	06-14-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
06N 42E 10ADA1	06-22-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
07N 39E 32CCA1	06-21-99	--	--	--	--	--	--	--	--
				MINIDOKA COUNTY					
08S 25E 01DAC1	08-30-99	--	--	--	--	--	--	--	--
09S 22E 36CDCC1	09-02-99	--	--	--	--	--	--	--	--
09S 23E 13ABA1	09-14-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
09S 23E 14CCC2	08-09-99	--	--	--	--	--	--	--	--
09S 24E 07AAD1	09-14-99	<.0020	<.0070	<.0020	<.0060	<.0100	<.0040	<.0100	<.0040

LOCAL IDENTIFIER	DATE	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TERBUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
				FREMONT COUNTY					
08N 44E 33BCBD1	06-16-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
09N 40E 29ACB1	06-16-99	--	--	--	--	--	--	--	--
09N 41E 13BBA1	06-23-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
11N 42E 12CBCA1	08-24-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
12N 44E 17ACA1	08-10-99	--	--	--	--	--	--	--	--
				JEFFERSON COUNTY					
04N 38E 24CDC1	09-15-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
				JEROME COUNTY					
07S 17E 16ABA1	07-19-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
08S 16E 21AAA1	07-19-99	--	--	--	--	--	--	--	--
08S 17E 30CBD1	07-19-99	--	--	--	--	--	--	--	--
08S 20E 29CCC1	07-27-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
09S 16E 04ADC1	07-28-99	--	--	--	--	--	--	--	--
10S 18E 11AAA1	07-27-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
				MADISON COUNTY					
05N 38E 02BAD1	06-29-99	--	--	--	--	--	--	--	--
05N 39E 11AAC1	06-21-99	--	--	--	--	--	--	--	--
05N 39E 12CBA1	06-14-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
06N 38E 35ABA1	06-29-99	--	--	--	--	--	--	--	--
06N 39E 20DCC1	06-21-99	--	--	--	--	--	--	--	--
06N 39E 24ACC1	06-14-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
06N 42E 10ADA1	06-22-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
07N 39E 32CCA1	06-21-99	--	--	--	--	--	--	--	--
				MINIDOKA COUNTY					
08S 25E 01DAC1	08-30-99	--	--	--	--	--	--	--	--
09S 22E 36CDCC1	09-02-99	--	--	--	--	--	--	--	--
09S 23E 13ABA1	09-14-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
09S 23E 14CCC2	08-09-99	--	--	--	--	--	--	--	--
09S 24E 07AAD1	09-14-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PROPARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PERMETHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
FREMONT COUNTY									
08N 44E 33BCBD1	06-16-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
09N 40E 29ACB1	06-16-99	--	--	--	--	--	--	--	--
09N 41E 13BBA1	06-23-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
11N 42E 12CBCA1	08-24-99	<.0030	<.0020	<.0020	<.0040	<.0030	--	<.0010	<.0050
12N 44E 17ACA1	08-10-99	--	--	--	--	--	--	--	--
JEFFERSON COUNTY									
04N 38E 24CDC1	09-15-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
JEROME COUNTY									
07S 17E 16ABA1	07-19-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
08S 16E 21AAA1	07-19-99	--	--	--	--	--	--	--	--
08S 17E 30CBD1	07-19-99	--	--	--	--	--	--	--	--
08S 20E 29CCC1	07-27-99	<.0030	<.0020	<.0020	<.0040	<.0030	--	<.0010	<.0050
09S 16E 04ADC1	07-28-99	--	--	--	--	--	--	--	--
10S 18E 11AAA1	07-27-99	<.0030	<.0020	<.0020	<.0040	<.0030	--	<.0010	<.0050
MADISON COUNTY									
05N 38E 02BAD1	06-29-99	--	--	--	--	--	--	--	--
05N 39E 11AAC1	06-21-99	--	--	--	--	--	--	--	--
05N 39E 12CBA1	06-14-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
06N 38E 35ABA1	06-29-99	--	--	--	--	--	--	--	--
06N 39E 20DCC1	06-21-99	--	--	--	--	--	--	--	--
06N 39E 24ACC1	06-14-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
06N 42E 10ADA1	06-22-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
07N 39E 32CCA1	06-21-99	--	--	--	--	--	--	--	--
MINIDOKA COUNTY									
08S 25E 01DAC1	08-30-99	--	--	--	--	--	--	--	--
09S 22E 36CDCC1	09-02-99	--	--	--	--	--	--	--	--
09S 23E 13ABA1	09-14-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
09S 23E 14CCC2	08-09-99	--	--	--	--	--	--	--	--
09S 24E 07AAD1	09-14-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENT-I-FIER	STATION NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	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)	OXYGEN, DIS-SOLVED (MG/L) (00300)
				MINIDOKA COUNTY					
09S 24E 31BAA1	423613113415301	08-30-99	1850	--	590	7.6	23.0	14.8	1.6
10S 23E 05DCC1	423435113472701	08-30-99	1245	231.15	521	8.3	27.0	16.4	1.1
10S 23E 09CBCB1	423359113465401	09-02-99	1505	--	2000	7.3	18.0	11.9	.8
10S 23E 14CCB1	423300113443301	09-07-99	1650	--	776	7.5	24.0	12.9	--
10S 23E 15CDC1	423254113452601	08-16-99	0850	--	939	7.4	14.0	12.7	.0
				ONEIDA COUNTY					
12S 35E 19ABD1	422215112243101	06-29-99	1115	--	587	7.3	22.5	10.3	8.8
16S 30E 09ABB2	420323112571202	10-04-99	1200	--	523	7.6	15.7	14.0	7.0
16S 36E 14DBC1	420204112130101	06-22-99	1000	--	670	7.4	21.0	11.4	7.3
				POWER COUNTY					
06S 29E 32AAB1	425155113052901	08-18-99	1435	--	436	8.0	30.9	16.0	6.5
06S 34E 07BBC1	425503112320101	09-09-99	1315	--	490	8.1	24.5	14.3	3.7
07S 29E 28CAC1	424651113043201	09-09-99	0945	215.44	771	7.8	11.3	18.8	7.7
07S 31E 01BDB1	425042112470501	07-01-99	1455	--	383	7.9	20.5	18.0	3.9
09S 28E 13DBD1	423815113080301	08-18-99	1110	--	895	7.8	25.3	12.8	8.4
10S 33E 27DDD1	423108112343001	08-17-99	1255	103.83	360	7.7	25.0	13.6	2.7
11S 31E 11CBA1	422846112482401	08-17-99	1010	--	396	7.8	17.2	11.2	5.8
11S 33E 02BAB1	423010112340301	08-17-99	1440	57.74	515	7.8	27.9	13.3	6.1
				TETON COUNTY					
03N 45E 05CAC1	433640111102901	07-27-99	1310	2.32	435	7.7	26.7	11.2	2.0
04N 44E 12ADD1	434100111120701	08-04-99	0945	--	487	7.6	20.3	7.6	7.5
05N 46E 19AAB1	434501111035301	07-27-99	1125	70.29	289	7.9	27.7	8.1	7.2
06N 44E 09CCA2	435123111163201	07-30-99	0920	--	362	7.7	20.9	11.8	6.8
				TWIN FALLS COUNTY					
06S 12E 25DAA1	425221114580701	08-03-99	1045	--	612	8.2	28.0	25.1	.2
09S 15E 28AAB1	423720114414801	07-29-99	1120	44.87	939	8.0	23.0	13.9	8.1
09S 15E 30CAD1	423649114443701	07-29-99	1420	66.22	1000	7.5	33.0	13.8	6.9
09S 16E 20BDD1	423750114361701	08-04-99	1645	169.41	1100	7.5	32.0	16.2	7.8
10S 12E 01CDC1	423443114595501	08-02-99	1435	--	501	7.5	32.0	24.9	7.3
10S 13E 14DAC1	423314114533201	09-09-99	1810	--	882	7.6	33.0	13.5	8.4
10S 13E 25DDC1	423117114521701	07-26-99	1425	--	838	7.3	29.0	13.2	8.6
10S 14E 01CAA1	423506114453601	07-26-99	1120	--	883	7.4	26.0	13.9	8.4
10S 15E 03ADD1	423510114402201	07-20-99	1510	--	1040	7.6	27.0	14.0	9.3
10S 16E 11DAA1	423413114320701	06-10-99	0925	--	946	7.5	15.0	13.2	7.6
10S 16E 15DDC1	423259114332501	06-10-99	1150	--	805	7.7	21.0	14.2	7.9
10S 16E 24DDD1	423207114305601	06-24-99	0940	--	1040	7.5	25.0	14.2	13.1
10S 16E 32DCD1	423022114355601	07-20-99	1150	--	1700	7.8	28.0	16.6	9.8
10S 17E 06AAD1	423524114295801	09-14-99	1345	--	1160	7.5	25.0	16.3	5.9
10S 17E 13CCA1	423306114250801	06-09-99	1555	--	1070	7.7	20.0	13.5	7.6
10S 17E 33BAB1	423107114282301	08-03-99	1500	--	790	7.6	42.0	15.6	8.5
11S 14E 09ABA1	422927114485401	09-01-99	1310	--	951	7.7	22.0	12.8	9.2
11S 16E 27CCC1	422600114341901	09-13-99	1340	--	856	7.8	23.0	14.0	7.4
11S 18E 01ABB1	423012114174001	07-22-99	1345	153.83	483	7.2	28.0	17.1	8.4
11S 18E 03ABA1	423015114195301	08-05-99	1150	--	829	7.5	28.0	14.2	6.7
11S 18E 07BAB1	422925114234501	09-13-99	1600	--	--	--	--	--	--
11S 18E 23BBA1	422735114191401	08-10-99	1100	--	230	7.8	21.0	12.4	5.9
11S 19E 21BDA1	422722114141901	08-05-99	0945	--	672	7.2	24.0	22.8	5.4
11S 19E 29BAD2	422635114152901	09-14-99	1125	--	496	7.2	20.0	18.7	4.8
12S 13E 26BCC1	422113114542101	09-09-99	1420	173.67	1060	7.9	33.0	15.5	7.9
12S 16E 34BCB2	422020114342401	07-22-99	0940	141.39	1170	7.5	24.0	15.3	10.4

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
MINIDOKA COUNTY										
09S 24E 31BAA1	08-30-99	<1	230	65	17	27	7.4	250	0	203
10S 23E 05DCC1	08-30-99	<1	110	22	13	56	14	190	0	155
10S 23E 09CBCB1	09-02-99	<1	790	160	93	95	22	440	0	358
10S 23E 14CCB1	09-07-99	<1	340	85	31	37	8.6	370	0	303
10S 23E 15CDC1	08-16-99	<1	390	110	28	50	6.9	410	0	333
ONEIDA COUNTY										
12S 35E 19ABD1	06-29-99	<1	260	59	26	14	1.1	220	0	178
16S 30E 09ABB2	10-04-99	<1	210	60	15	20	1.5	190	0	156
16S 36E 14DBC1	06-22-99	<1	310	61	39	23	8.4	330	0	268
POWER COUNTY										
06S 29E 32AAB1	08-18-99	<1	150	39	13	20	3.6	160	0	135
06S 34E 07BBC1	09-09-99	<1	210	55	17	21	3.9	230	0	187
07S 29E 28CAC1	09-09-99	<1	310	77	28	37	4.8	220	0	178
07S 31E 01BDB1	07-01-99	<1	140	38	12	20	7.0	150	0	126
09S 28E 13DBD1	08-18-99	<1	340	87	30	40	6.2	220	0	180
10S 33E 27DDD1	08-17-99	<1	160	51	6.6	12	4.1	200	0	162
11S 31E 11CBA1	08-17-99	<1	180	50	14	8.3	4.3	210	0	175
11S 33E 02BAB1	08-17-99	<1	220	66	14	17	1.5	230	0	185
TETON COUNTY										
03N 45E 05CAC1	07-27-99	<1	210	59	16	6.8	.87	260	0	213
04N 44E 12ADD1	08-04-99	<1	250	64	22	2.3	.46	240	0	194
05N 46E 19AAB1	07-27-99	<1	150	41	10	1.0	.49	180	0	146
06N 44E 09CCA2	07-30-99	<1	140	38	12	12	2.6	160	0	132
TWIN FALLS COUNTY										
06S 12E 25DAA1	08-03-99	<1	70	26	1.3	87	8.3	95	0	78
09S 15E 28AAB1	07-29-99	<1	410	92	44	38	4.9	640	0	522
09S 15E 30CAD1	07-29-99	<1	350	79	38	76	5.2	570	0	464
09S 16E 20BDD1	08-04-99	<1	400	84	47	82	3.8	430	0	353
10S 12E 01CDC1	08-02-99	<1	150	44	8.9	39	6.3	140	0	113
10S 13E 14DAC1	09-09-99	<1	350	77	38	53	4.7	370	0	302
10S 13E 25DDC1	07-26-99	<1	350	88	31	35	3.7	530	0	431
10S 14E 01CAA1	07-26-99	<1	360	88	35	48	3.6	420	0	347
10S 15E 03ADD1	07-20-99	<1	360	78	40	87	4.7	430	0	355
10S 16E 11DAA1	06-10-99	<1	380	88	38	60	3.5	330	0	274
10S 16E 15DDC1	06-10-99	<1	290	65	32	60	3.1	320	0	263
10S 16E 24DDD1	06-24-99	<1	400	100	36	56	6.5	430	0	356
10S 16E 32DCD1	07-20-99	<1	560	110	69	135	7.7	340	0	279
10S 17E 06AAD1	09-14-99	<1	360	86	35	114	9.4	380	0	310
10S 17E 13CCA1	06-09-99	<1	390	88	41	76	4.3	390	0	317
10S 17E 33BAB1	08-03-99	<1	310	67	34	48	3.8	320	0	266
11S 14E 09ABA1	09-01-99	<1	390	75	50	61	4.2	460	0	380
11S 16E 27CCC1	09-13-99	<1	260	64	25	84	5.7	310	0	<257
11S 18E 01ABB1	07-22-99	<1	190	41	21	23	3.6	200	0	166
11S 18E 03ABA1	08-05-99	<1	300	72	30	57	6.0	330	0	268
11S 18E 07BAB1	09-13-99	--	--	--	--	--	--	--	--	--
11S 18E 23BBA1	08-10-99	<1	91	27	5.7	9.2	4.4	110	0	91
11S 19E 21BDA1	08-05-99	<1	230	74	12	28	14	140	0	112
11S 19E 29BAD2	09-14-99	<1	170	55	8.7	27	9.3	170	0	140
12S 13E 26BCC1	09-09-99	<1	330	60	44	103	7.4	440	0	359
12S 16E 34BCB2	07-22-99	<1	360	70	45	98	4.9	310	0	257

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SOLIDS, DISSOLVED (TONS PER AC-FT) (70303)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
MINIDOKA COUNTY										
09S 24E 31BAA1	08-30-99	56	28	.54	56	381	.52	<.010	<.050	.227
10S 23E 05DCC1	08-30-99	19	53	.48	47	320	.44	<.010	<.050	1.04
10S 23E 09CBCB1	09-02-99	120	100	.51	45	1300	1.77	.035	100	<.020
10S 23E 14CCB1	09-07-99	69	31	.87	41	489	.67	<.010	.840	<.020
10S 23E 15CDC1	08-16-99	95	46	.46	42	579	.79	<.010	.894	<.020
ONEIDA COUNTY										
12S 35E 19ABD1	06-29-99	14	52	.11	11	289	.39	<.010	.899	<.020
16S 30E 09ABB2	10-04-99	20	51	<.10	17	282	.38	<.010	.538	<.020
16S 36E 14DBC1	06-22-99	28	26	.39	42	391	.53	<.010	.732	<.020
POWER COUNTY										
06S 29E 32AAB1	08-18-99	31	32	.71	36	261	.35	<.010	.902	<.020
06S 34E 07BBC1	09-09-99	37	16	.68	28	300	.41	<.010	1.88	<.020
07S 29E 28CAC1	09-09-99	80	82	.42	30	456	.62	<.010	2.26	<.020
07S 31E 01BDB1	07-01-99	34	18	.62	50	256	.35	.010	.181	<.020
09S 28E 13DBD1	08-18-99	85	100	.37	37	529	.72	<.010	7.69	<.020
10S 33E 27DDD1	08-17-99	4.5	13	.20	55	246	.34	<.010	.409	<.020
11S 31E 11CBA1	08-17-99	5.4	16	.12	55	261	.35	<.010	.419	<.020
11S 33E 02BAB1	08-17-99	7.6	43	.12	26	289	.39	<.010	.741	<.020
TETON COUNTY										
03N 45E 05CAC1	07-27-99	15	2.9	.13	16	247	.34	<.010	.428	<.020
04N 44E 12ADD1	08-04-99	50	1.8	<.10	8.2	274	.37	<.010	2.00	<.020
05N 46E 19AAB1	07-27-99	2.3	1.2	<.10	7.3	154	.21	<.010	.501	<.020
06N 44E 09CCA2	07-30-99	13	16	.46	40	224	.31	<.010	2.32	<.020
TWIN FALLS COUNTY										
06S 12E 25DAA1	08-03-99	120	58	.28	40	388	.53	<.010	.072	.322
09S 15E 28AAB1	07-29-99	65	29	.64	54	674	.92	<.010	7.50	<.020
09S 15E 30CAD1	07-29-99	95	42	.99	57	702	.96	<.010	6.81	<.020
09S 16E 20BDD1	08-04-99	150	50	.79	54	709	.96	<.010	6.14	<.020
10S 12E 01CDC1	08-02-99	66	34	1.3	60	338	.46	<.010	2.22	<.020
10S 13E 14DAC1	09-09-99	96	33	1.0	59	572	.78	<.010	6.49	<.020
10S 13E 25DDC1	07-26-99	88	27	1.3	57	614	.84	<.010	5.40	<.020
10S 14E 01CAA1	07-26-99	70	32	1.3	60	559	.76	<.010	2.67	<.020
10S 15E 03ADD1	07-20-99	120	47	.80	52	668	.91	<.010	6.19	<.020
10S 16E 11DAA1	06-10-99	140	42	1.2	60	613	.83	<.010	4.02	<.020
10S 16E 15DDC1	06-10-99	92	33	.96	52	513	.70	<.010	3.97	<.020
10S 16E 24DDD1	06-24-99	98	61	1.1	48	646	.88	<.010	5.02	<.020
10S 16E 32DCD1	07-20-99	350	160	.55	45	1070	1.45	<.010	5.59	<.020
10S 17E 06AAD1	09-14-99	180	74	.44	64	774	1.05	<.010	5.46	<.020
10S 17E 13CCA1	06-09-99	150	45	.60	51	670	.91	<.010	6.21	<.020
10S 17E 33BAB1	08-03-99	89	33	.85	50	498	.68	<.010	2.95	<.020
11S 14E 09ABA1	09-01-99	82	28	.74	62	627	.85	<.010	8.21	<.020
11S 16E 27CCC1	09-13-99	82	39	.42	50	543	.74	<.010	8.73	<.020
11S 18E 01ABB1	07-22-99	36	16	.74	32	278	.38	<.010	1.25	<.020
11S 18E 03ABA1	08-05-99	88	32	.42	47	520	.71	<.010	6.35	<.020
11S 18E 07BAB1	09-13-99	--	--	--	--	--	--	--	--	--
11S 18E 23BBA1	08-10-99	9.7	7.9	.21	52	173	.24	<.010	.578	<.020
11S 19E 21BDA1	08-05-99	55	95	.38	<.10	359	.49	<.010	3.11	<.020
11S 19E 29BAD2	09-14-99	45	35	.28	<.10	275	.37	<.010	2.60	<.020
12S 13E 26BCC1	09-09-99	90	41	.83	52	697	.95	<.010	19.2	<.020
12S 16E 34BCB2	07-22-99	180	110	.65	51	735	1.00	<.010	5.73	<.020

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
MINIDOKA COUNTY										
09S 24E 31BAA1	08-30-99	.050	5	144	<1.0	--	<1.0	280	<1.0	296
10S 23E 05DCC1	08-30-99	.030	<1	145	<1.0	--	<1.0	28	<1.0	16
10S 23E 09CBCB1	09-02-99	.168	15	303	<1.0	--	4.7	<10	<1.0	6.8
10S 23E 14CCB1	09-07-99	.061	12	94	<1.0	--	1.2	18	<1.0	211
10S 23E 15CDC1	08-16-99	.056	6	110	<1.0	--	2.5	<10	<1.0	328
ONEIDA COUNTY										
12S 35E 19ABD1	06-29-99	.017	<1	35	<1.0	<1.0	<1.0	<10	<1.0	<3.0
16S 30E 09ABB2	10-04-99	<.010	E1	133	<1.0	--	1.6	<10	<1.0	<2.2
16S 36E 14DBC1	06-22-99	.035	7	41	<1.0	<1.0	2.4	<10	<1.0	<3.0
POWER COUNTY										
06S 29E 32AAB1	08-18-99	<.010	E2	21	<1.0	--	5.7	10	1.7	<2.2
06S 34E 07BBC1	09-09-99	<.010	1	62	<1.0	--	2.6	19	<1.0	3.8
07S 29E 28CAC1	09-09-99	<.010	1	61	<1.0	--	12	<10	<1.0	E1.4
07S 31E 01BDB1	07-01-99	.019	5	82	<1.0	3.1	1.1	<10	<1.0	<3.0
09S 28E 13DBD1	08-18-99	.021	2	103	<1.0	--	1.5	<10	<1.0	2.5
10S 33E 27DDD1	08-17-99	.015	<1	133	<1.0	--	5.5	E9.5	<1.0	E2.0
11S 31E 11CBA1	08-17-99	<.010	<1	130	<1.0	--	<1.0	<10	<1.0	E1.5
11S 33E 02BAB1	08-17-99	<.010	<1	75	<1.0	--	<1.0	<10	<1.0	4.6
TETON COUNTY										
03N 45E 05CAC1	07-27-99	.067	<1	32	<1.0	--	1.2	14	<1.0	<3.0
04N 44E 12ADD1	08-04-99	<.010	<1	61	<1.0	--	1.5	<10	<1.0	<3.0
05N 46E 19AAB1	07-27-99	<.010	<1	27	<1.0	--	<1.0	<10	<1.0	<3.0
06N 44E 09CCA2	07-30-99	.034	<1	49	<1.0	--	1.4	<10	<1.0	<3.0
TWIN FALLS COUNTY										
06S 12E 25DAA1	08-03-99	<.010	14	52	<1.0	--	<1.0	<10	<1.0	18
09S 15E 28AAB1	07-29-99	.094	7	93	<1.0	--	14	<10	<1.0	<3.0
09S 15E 30CAD1	07-29-99	.012	16	25	<1.0	--	2.6	<10	<1.0	<3.0
09S 16E 20BDD1	08-04-99	.010	19	34	<1.0	--	2.5	<10	<1.0	<3.0
10S 12E 01CDC1	08-02-99	<.010	3	52	<1.0	--	<1.0	<10	<1.0	<3.0
10S 13E 14DAC1	09-09-99	.031	18	26	<1.0	--	2.4	E5.5	<1.0	E1.4
10S 13E 25DDC1	07-26-99	.070	20	33	<1.0	--	4.1	<10	<1.0	<3.0
10S 14E 01CAA1	07-26-99	.011	19	16	<1.0	--	3.8	<10	<1.0	<3.0
10S 15E 03ADD1	07-20-99	.027	21	30	<1.0	--	2.6	<10	<1.0	<3.0
10S 16E 11DAA1	06-10-99	.016	30	25	<1.0	--	6.9	<10	<1.0	<3.0
10S 16E 15DDC1	06-10-99	.017	18	47	<1.0	--	4.8	<10	<1.0	<3.0
10S 16E 24DDD1	06-24-99	.149	14	54	<1.0	--	4.6	<10	<1.0	<3.0
10S 16E 32DCD1	07-20-99	.023	11	108	<1.0	--	2.8	E8.1	1.1	E1.8
10S 17E 06AAD1	09-14-99	<.010	6	31	<1.0	--	1.8	<10	<1.0	E1.4
10S 17E 13CCA1	06-09-99	.028	17	30	<1.0	--	2.6	<10	<1.0	<3.0
10S 17E 33BAB1	08-03-99	.026	12	35	<1.0	--	1.8	<10	<1.0	<3.0
11S 14E 09ABA1	09-01-99	.012	32	46	<1.0	--	3.3	<10	<1.0	<2.2
11S 16E 27CCC1	09-13-99	.033	8	54	<1.0	--	2.9	<10	<1.0	E1.2
11S 18E 01ABB1	07-22-99	.038	6	38	<1.0	--	1.7	<10	<1.0	<3.0
11S 18E 03ABA1	08-05-99	.024	6	43	<1.0	--	2.7	<10	<1.0	<3.0
11S 18E 07BAB1	09-13-99	--	--	--	--	--	--	--	--	--
11S 18E 23BBA1	08-10-99	.020	1	24	<1.0	--	<1.0	<10	<1.0	<3.0
11S 19E 21BDA1	08-05-99	<.010	2	108	<1.0	--	1.5	<10	<1.0	<3.0
11S 19E 29BAD2	09-14-99	.024	2	75	<1.0	--	<1.0	<10	<1.0	<2.2
12S 13E 26BCC1	09-09-99	.013	20	43	<1.0	--	2.9	<10	<1.0	<2.2
12S 16E 34BCB2	07-22-99	.052	14	24	<1.0	--	2.5	<10	<1.0	<3.0

E Positive detection, but below stated detection limit.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	PROPCHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	PROMETON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)
				MINIDOKA COUNTY					
09S 24E 31BAA1	08-30-99	<1	<20	--	--	--	--	--	--
10S 23E 05DCC1	08-30-99	<1	E12	--	--	--	--	--	--
10S 23E 09CBCB1	09-02-99	<1	29	--	--	--	--	--	--
10S 23E 14CCB1	09-07-99	<1	E15	--	--	--	--	--	--
10S 23E 15CDC1	08-16-99	<1	E11	--	--	--	--	--	--
				ONEIDA COUNTY					
12S 35E 19ABD1	06-29-99	<1	<20	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
16S 30E 09ABB2	10-04-99	E2	E17	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
16S 36E 14DBC1	06-22-99	2	<20	<.0070	<.0020	<.0050	<.0180	<.0020	<.0040
				POWER COUNTY					
06S 29E 32AAB1	08-18-99	<2	539	--	--	--	--	--	--
06S 34E 07BBC1	09-09-99	<1	62	--	--	--	--	--	--
07S 29E 28CAC1	09-09-99	<1	<20	--	--	--	--	--	--
07S 31E 01BDB1	07-01-99	<1	E9.4	--	--	--	--	--	--
09S 28E 13DBD1	08-18-99	1	<20	--	--	--	--	--	--
10S 33E 27DDD1	08-17-99	<1	71	--	--	--	--	--	--
11S 31E 11CBA1	08-17-99	<1	<20	--	--	--	--	--	--
11S 33E 02BAB1	08-17-99	<1	37	--	--	--	--	--	--
				TETON COUNTY					
03N 45E 05CAC1	07-27-99	<1	82	--	--	--	--	--	--
04N 44E 12ADD1	08-04-99	<1	<20	--	--	--	--	--	--
05N 46E 19AAB1	07-27-99	<1	129	--	--	--	--	--	--
06N 44E 09CCA2	07-30-99	<1	<20	--	--	--	--	--	--
				TWIN FALLS COUNTY					
06S 12E 25DAA1	08-03-99	<1	E11	--	--	--	--	--	--
09S 15E 28AAB1	07-29-99	2	E12	--	--	--	--	--	--
09S 15E 30CAD1	07-29-99	<1	119	--	--	--	--	--	--
09S 16E 20BDD1	08-04-99	2	35	--	--	--	--	--	--
10S 12E 01CDC1	08-02-99	<1	E17	--	--	--	--	--	--
10S 13E 14DAC1	09-09-99	<1	23	--	--	--	--	--	--
10S 13E 25DDC1	07-26-99	<1	E14	--	--	--	--	--	--
10S 14E 01CAA1	07-26-99	1	24	--	--	--	--	--	--
10S 15E 03ADD1	07-20-99	2	<20	--	--	--	--	--	--
10S 16E 11DAA1	06-10-99	1	113	--	--	--	--	--	--
10S 16E 15DDC1	06-10-99	1	37	--	--	--	--	--	--
10S 16E 24DDD1	06-24-99	<1	45	--	--	--	--	--	--
10S 16E 32DCD1	07-20-99	5	143	--	--	--	--	--	--
10S 17E 06AAD1	09-14-99	3	E13	--	--	--	--	--	--
10S 17E 13CCA1	06-09-99	1	23	--	--	--	--	--	--
10S 17E 33BAB1	08-03-99	1	<20	<.0070	<.0020	<.0050	<.0180	E.0070	<.0040
11S 14E 09ABA1	09-01-99	1	188	--	--	--	--	--	--
11S 16E 27CCC1	09-13-99	2	174	<.0070	<.0020	E.0036	<.0180	<.0020	<.0040
11S 18E 01ABB1	07-22-99	<1	66	--	--	--	--	--	--
11S 18E 03ABA1	08-05-99	1	29	--	--	--	--	--	--
11S 18E 07BAB1	09-13-99	--	--	<.0070	<.0020	E.0029	<.0180	E.0057	<.0040
11S 18E 23BBA1	08-10-99	<1	50	--	--	--	--	--	--
11S 19E 21BDA1	08-05-99	1	E10	--	--	--	--	--	--
11S 19E 29BAD2	09-14-99	2	<20	--	--	--	--	--	--
12S 13E 26BCC1	09-09-99	3	169	--	--	--	--	--	--
12S 16E 34BCB2	07-22-99	3	50	--	--	--	--	--	--

E Positive detection, but below stated detection limit.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DISSOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	LINDANE DISSOLVED (UG/L) (39341)	DIELDRIN DISSOLVED (UG/L) (39381)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	MALATHION, DISSOLVED (UG/L) (39532)
ONEIDA COUNTY									
12S 35E 19ABD1	06-29-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
16S 30E 09ABB2	10-04-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
16S 36E 14DBC1	06-22-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
TWIN FALLS COUNTY									
06S 12E 25DAA1	08-03-99	--	--	--	--	--	--	--	--
09S 15E 28AAB1	07-29-99	--	--	--	--	--	--	--	--
09S 15E 30CAD1	07-29-99	--	--	--	--	--	--	--	--
09S 16E 20BDD1	08-04-99	--	--	--	--	--	--	--	--
10S 12E 01CDC1	08-02-99	--	--	--	--	--	--	--	--
10S 13E 14DAC1	09-09-99	--	--	--	--	--	--	--	--
10S 13E 25DDC1	07-26-99	--	--	--	--	--	--	--	--
10S 14E 01CAA1	07-26-99	--	--	--	--	--	--	--	--
10S 15E 03ADD1	07-20-99	--	--	--	--	--	--	--	--
10S 16E 11DAA1	06-10-99	--	--	--	--	--	--	--	--
10S 16E 15DDC1	06-10-99	--	--	--	--	--	--	--	--
10S 16E 24DDD1	06-24-99	--	--	--	--	--	--	--	--
10S 16E 32DCD1	07-20-99	--	--	--	--	--	--	--	--
10S 17E 06AAD1	09-14-99	--	--	--	--	--	--	--	--
10S 17E 13CCA1	06-09-99	--	--	--	--	--	--	--	--
10S 17E 33BAB1	08-03-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
11S 14E 09ABA1	09-01-99	--	--	--	--	--	--	--	--
11S 16E 27CCC1	09-13-99	<.0030	<.0020	E.0014	<.0040	<.004	<.001	<.002	<.005
11S 18E 01ABB1	07-22-99	--	--	--	--	--	--	--	--
11S 18E 03ABA1	08-05-99	--	--	--	--	--	--	--	--
11S 18E 07BAB1	09-13-99	<.0030	<.0020	<.0060	<.0040	<.004	<.001	<.002	<.005
11S 18E 23BBA1	08-10-99	--	--	--	--	--	--	--	--
11S 19E 21BDA1	08-05-99	--	--	--	--	--	--	--	--
11S 19E 29BAD2	09-14-99	--	--	--	--	--	--	--	--
12S 13E 26BCC1	09-09-99	--	--	--	--	--	--	--	--
12S 16E 34BCB2	07-22-99	--	--	--	--	--	--	--	--

LOCAL IDENTIFIER	DATE	PARATHION, DISSOLVED (UG/L) (39542)	DIAZINON, DISSOLVED (UG/L) (39572)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
ONEIDA COUNTY									
12S 35E 19ABD1	06-29-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
16S 30E 09ABB2	10-04-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
16S 36E 14DBC1	06-22-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
TWIN FALLS COUNTY									
06S 12E 25DAA1	08-03-99	--	--	--	--	--	--	--	--
09S 15E 28AAB1	07-29-99	--	--	--	--	--	--	--	--
09S 15E 30CAD1	07-29-99	--	--	--	--	--	--	--	--
09S 16E 20BDD1	08-04-99	--	--	--	--	--	--	--	--
10S 12E 01CDC1	08-02-99	--	--	--	--	--	--	--	--
10S 13E 14DAC1	09-09-99	--	--	--	--	--	--	--	--
10S 13E 25DDC1	07-26-99	--	--	--	--	--	--	--	--
10S 14E 01CAA1	07-26-99	--	--	--	--	--	--	--	--
10S 15E 03ADD1	07-20-99	--	--	--	--	--	--	--	--
10S 16E 11DAA1	06-10-99	--	--	--	--	--	--	--	--
10S 16E 15DDC1	06-10-99	--	--	--	--	--	--	--	--
10S 16E 24DDD1	06-24-99	--	--	--	--	--	--	--	--
10S 16E 32DCD1	07-20-99	--	--	--	--	--	--	--	--
10S 17E 06AAD1	09-14-99	--	--	--	--	--	--	--	--
10S 17E 13CCA1	06-09-99	--	--	--	--	--	--	--	--
10S 17E 33BAB1	08-03-99	<.004	<.002	<.001	<.002	<.004	<.0030	<.0020	<.0040
11S 14E 09ABA1	09-01-99	--	--	--	--	--	--	--	--
11S 16E 27CCC1	09-13-99	<.004	<.002	E.002	<.002	<.004	<.0030	<.0020	<.0040
11S 18E 01ABB1	07-22-99	--	--	--	--	--	--	--	--
11S 18E 03ABA1	08-05-99	--	--	--	--	--	--	--	--
11S 18E 07BAB1	09-13-99	<.004	<.002	.006	<.002	<.004	<.0030	<.0020	<.0040
11S 18E 23BBA1	08-10-99	--	--	--	--	--	--	--	--
11S 19E 21BDA1	08-05-99	--	--	--	--	--	--	--	--
11S 19E 29BAD2	09-14-99	--	--	--	--	--	--	--	--
12S 13E 26BCC1	09-09-99	--	--	--	--	--	--	--	--
12S 16E 34BCB2	07-22-99	--	--	--	--	--	--	--	--

E Positive detection, but below stated detection limit.

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARATHION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEBULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
				ONEIDA COUNTY					
12S 35E 19ABD1	06-29-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
16S 30E 09ABB2	10-04-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
16S 36E 14DBC1	06-22-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
				TWIN FALLS COUNTY					
06S 12E 25DAA1	08-03-99	--	--	--	--	--	--	--	--
09S 15E 28AAB1	07-29-99	--	--	--	--	--	--	--	--
09S 15E 30CAD1	07-29-99	--	--	--	--	--	--	--	--
09S 16E 20BDD1	08-04-99	--	--	--	--	--	--	--	--
10S 12E 01CDC1	08-02-99	--	--	--	--	--	--	--	--
10S 13E 14DAC1	09-09-99	--	--	--	--	--	--	--	--
10S 13E 25DDC1	07-26-99	--	--	--	--	--	--	--	--
10S 14E 01CAA1	07-26-99	--	--	--	--	--	--	--	--
10S 15E 03ADD1	07-20-99	--	--	--	--	--	--	--	--
10S 16E 11DAA1	06-10-99	--	--	--	--	--	--	--	--
10S 16E 15DDC1	06-10-99	--	--	--	--	--	--	--	--
10S 16E 24DDD1	06-24-99	--	--	--	--	--	--	--	--
10S 16E 32DCD1	07-20-99	--	--	--	--	--	--	--	--
10S 17E 06AAD1	09-14-99	--	--	--	--	--	--	--	--
10S 17E 13CCA1	06-09-99	--	--	--	--	--	--	--	--
10S 17E 33BAB1	08-03-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
11S 14E 09ABA1	09-01-99	--	--	--	--	--	--	--	--
11S 16E 27CCC1	09-13-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
11S 18E 01ABB1	07-22-99	--	--	--	--	--	--	--	--
11S 18E 03ABA1	08-05-99	--	--	--	--	--	--	--	--
11S 18E 07BAB1	09-13-99	<.0020	<.0070	<.0020	<.0060	<.0020	<.0040	<.0100	<.0040
11S 18E 23BBA1	08-10-99	--	--	--	--	--	--	--	--
11S 19E 21BDA1	08-05-99	--	--	--	--	--	--	--	--
11S 19E 29BAD2	09-14-99	--	--	--	--	--	--	--	--
12S 13E 26BCC1	09-09-99	--	--	--	--	--	--	--	--
12S 16E 34BCB2	07-22-99	--	--	--	--	--	--	--	--

LOCAL IDENTIFIER	DATE	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TERBUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
				ONEIDA COUNTY					
12S 35E 19ABD1	06-29-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
16S 30E 09ABB2	10-04-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
16S 36E 14DBC1	06-22-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
				TWIN FALLS COUNTY					
06S 12E 25DAA1	08-03-99	--	--	--	--	--	--	--	--
09S 15E 28AAB1	07-29-99	--	--	--	--	--	--	--	--
09S 15E 30CAD1	07-29-99	--	--	--	--	--	--	--	--
09S 16E 20BDD1	08-04-99	--	--	--	--	--	--	--	--
10S 12E 01CDC1	08-02-99	--	--	--	--	--	--	--	--
10S 13E 14DAC1	09-09-99	--	--	--	--	--	--	--	--
10S 13E 25DDC1	07-26-99	--	--	--	--	--	--	--	--
10S 14E 01CAA1	07-26-99	--	--	--	--	--	--	--	--
10S 15E 03ADD1	07-20-99	--	--	--	--	--	--	--	--
10S 16E 11DAA1	06-10-99	--	--	--	--	--	--	--	--
10S 16E 15DDC1	06-10-99	--	--	--	--	--	--	--	--
10S 16E 24DDD1	06-24-99	--	--	--	--	--	--	--	--
10S 16E 32DCD1	07-20-99	--	--	--	--	--	--	--	--
10S 17E 06AAD1	09-14-99	--	--	--	--	--	--	--	--
10S 17E 13CCA1	06-09-99	--	--	--	--	--	--	--	--
10S 17E 33BAB1	08-03-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
11S 14E 09ABA1	09-01-99	--	--	--	--	--	--	--	--
11S 16E 27CCC1	09-13-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
11S 18E 01ABB1	07-22-99	--	--	--	--	--	--	--	--
11S 18E 03ABA1	08-05-99	--	--	--	--	--	--	--	--
11S 18E 07BAB1	09-13-99	<.0030	<.0020	<.0030	<.0130	<.0030	<.0170	<.0010	<.0040
11S 18E 23BBA1	08-10-99	--	--	--	--	--	--	--	--
11S 19E 21BDA1	08-05-99	--	--	--	--	--	--	--	--
11S 19E 29BAD2	09-14-99	--	--	--	--	--	--	--	--
12S 13E 26BCC1	09-09-99	--	--	--	--	--	--	--	--
12S 16E 34BCB2	07-22-99	--	--	--	--	--	--	--	--

WATER QUALITY DATA, JUNE TO OCTOBER 1999

LOCAL IDENTIFIER	DATE	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PROPARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PERMETHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
ONEIDA COUNTY									
12S 35E 19ABD1	06-29-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
16S 30E 09ABB2	10-04-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
16S 36E 14DBC1	06-22-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
TWIN FALLS COUNTY									
06S 12E 25DAA1	08-03-99	--	--	--	--	--	--	--	--
09S 15E 28AAB1	07-29-99	--	--	--	--	--	--	--	--
09S 15E 30CAD1	07-29-99	--	--	--	--	--	--	--	--
09S 16E 20BDD1	08-04-99	--	--	--	--	--	--	--	--
10S 12E 01CDC1	08-02-99	--	--	--	--	--	--	--	--
10S 13E 14DAC1	09-09-99	--	--	--	--	--	--	--	--
10S 13E 25DDC1	07-26-99	--	--	--	--	--	--	--	--
10S 14E 01CAA1	07-26-99	--	--	--	--	--	--	--	--
10S 15E 03ADD1	07-20-99	--	--	--	--	--	--	--	--
10S 16E 11DAA1	06-10-99	--	--	--	--	--	--	--	--
10S 16E 15DDC1	06-10-99	--	--	--	--	--	--	--	--
10S 16E 24DDD1	06-24-99	--	--	--	--	--	--	--	--
10S 16E 32DCD1	07-20-99	--	--	--	--	--	--	--	--
10S 17E 06AAD1	09-14-99	--	--	--	--	--	--	--	--
10S 17E 13CCA1	06-09-99	--	--	--	--	--	--	--	--
10S 17E 33BAB1	08-03-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
11S 14E 09ABA1	09-01-99	--	--	--	--	--	--	--	--
11S 16E 27CCC1	09-13-99	<.0030	<.0020	<.0020	<.0040	<.0030	<.0130	<.0010	<.0050
11S 18E 01ABB1	07-22-99	--	--	--	--	--	--	--	--
11S 18E 03ABA1	08-05-99	--	--	--	--	--	--	--	--
11S 18E 07BAB1	09-13-99	<.0030	<.0020	E.0016	<.0040	<.0030	<.0130	<.0010	<.0050
11S 18E 23BBA1	08-10-99	--	--	--	--	--	--	--	--
11S 19E 21BDA1	08-05-99	--	--	--	--	--	--	--	--
11S 19E 29BAD2	09-14-99	--	--	--	--	--	--	--	--
12S 13E 26BCC1	09-09-99	--	--	--	--	--	--	--	--
12S 16E 34BCB2	07-22-99	--	--	--	--	--	--	--	--

E Positive detection, but below stated detection limit.

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

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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