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Water Resources Data Idaho Water Year 2001

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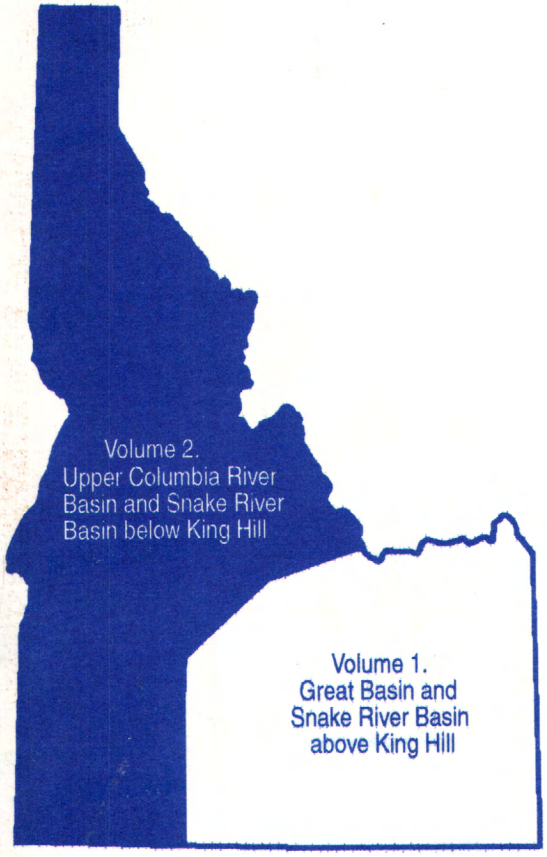
Volume 2. Upper Columbia River Basin and Snake River Basin below King Hill

Water-Data Report ID-01-2



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 2001

2000

OCTOBER

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2001

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30						

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

Water Resources Data Idaho Water Year 2001

Volume 2. Upper Columbia River Basin and Snake River Basin below King Hill

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

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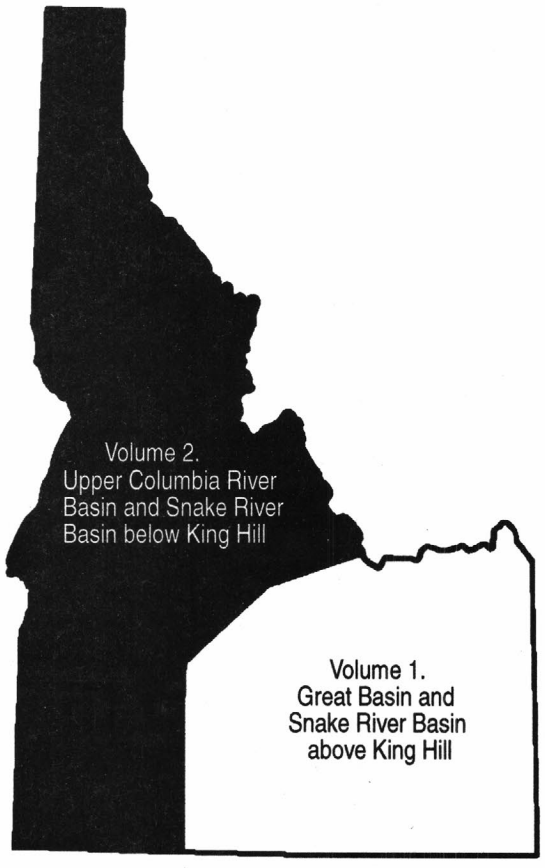

Prepared in cooperation with the
State of Idaho and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

GALE A. NORTON, Secretary

U.S. GEOLOGICAL SURVEY

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 2001 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 193 stream-gaging stations and 18 irrigation diversions; stage only records for 6 stream-gaging stations; stage only for 6 lakes and reservoirs; contents only for 13 lakes and reservoirs; water-quality for 98 stream-gaging stations and partial record sites, 3 lakes sites, and 394 groundwater wells; and water levels for 484 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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SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

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

	Station number	Page
UPPER COLUMBIA RIVER BASIN		
COLUMBIA RIVER		
KOOTENAI RIVER BASIN		
Yaak River near Troy, MT (d,c,s,t)	12304500	47
Kootenai River at Leonia (d)	12305000	50
Moyie River at Eastport (d,e)	12306500	52
Kootenai River at Bonners Ferry (e)	12309500	54
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COEUR D'ALENE RIVER		
North Fork Coeur d'Alene River		
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South Fork Coeur d'Alene River at Smelterville (t,k,tb)	12413300	96
East Fork Pine Creek above Gilbert Creek near Pinehurst (d,t,k,tb)	12413360	100
East Fork Pine Creek above Nabob Creek near Pinehurst (d,t,k,tb)	12413370	105
Pine Creek below Amy Gulch near Pinehurst (d,c,t,k,tb)	12413445	110
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Hayden Lake at Hayden Lake (e)	12417000	137
Spokane River near Post Falls (d,c,m,s,t,k)	12419000	138

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

	Station number	Page
SNAKE RIVER BASIN		
DIVERSIONS FROM SNAKE RIVER BETWEEN SNAKE RIVER AT KING HILL AND SNAKE RIVER BELOW C.J. STRIKE DAM		
King Hill Irrigation District Pumping Plant at King Hill (d)	13154510	144
Grindstone Butte Pumping Plant near Glenns Ferry (d)	13155800	145
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Grand View Irrigation District Canal near Grand View (d)	13171200	154
Grand View Mutual Canal near Grand View (d)	13171300	155
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Reynolds Irrigation District Pumping Plant near Walters Ferry (d)	131726449	161
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Boise River near Twin Springs (d,b)	13185000	166
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Lucky Peak Lake near Boise (e)	13201500	171
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South Fork Payette River at Lowman (d,c,m,s,t,b)	13235000	188
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Middle Fork Payette River near Crouch (d)	13237920	194
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North Fork Payette River below Fisher Creek, near McCall (d,c)	13238322	195
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Little Salmon River at Riggins (d,c,m,s,t)	13316500	242
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Snake River near Anatone, WA (d,t)	13334300	250

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

	Station number	Page
SNAKE RIVER BASIN--Continued		
CLEARWATER RIVER BASIN		
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Selway River near Lowell (d)	13336500	255
Lochsa River near Lowell (d)	13337000	256
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Lolo Creek near Greer (d)	13339500	260
Clearwater River at Orofino (d,t)	13340000	261
North Fork Clearwater River near Canyon Ranger Station (d,t)	13340600	263
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Clearwater River near Peck (d,t)	13341050	266
Lapwai Creek near Lapwai (d,b)	13342450	269
Clearwater River at Spalding (d,t)	13342500	272
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South Fork Palouse River		
Paradise Creek at University of Idaho at Moscow (d)	13346800	277

COUNTIES FOR WHICH GROUND-WATER WELL 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 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)	Period of record (water year)
Columbia River Basin			
Kootenai River Basin			
Kootenai River at Libby, MT	12303000	10,240	1910-91
Boulder Creek near Leonia	12305500	56	1928-72, 1973-77
Kootenai River at Katka	12306000	11,860	1928-33
Moyie River at Synder	12307000	656	1911-14, 1919-23
Moyie River at Eileen	12307500	755	1926-79
Cow Creek near Bonners Ferry	12309000	17.5	1928-34
Kootenai River near Bonners Ferry	12310000	13,000	1928-69
Deep Creek at Moravia	12311000	133	1928-72
Snow Creek near Moravia	12311500	19.5	1928-34
Caribou Creek near Moravia	12312000	13.	1928-34
Myrtle Creek near Bonners Ferry	12313000	42.1	1928-34
Ball Creek near Bonners Ferry	12313500	26.6	1928-34, 1971-79
Rock Creek near Copeland	12315200	16.6	1928-34
Trout Creek near Copeland	12315400	20	1928-34
Mission Creek near Copeland	12316800	23	1958-82
Mission Creek at Copeland	12317000	31	1928-34
Brush Creek near Copeland	12317500	7.2	1933-34
Diking District No.4 near Copeland	12317600	--	1970, 1974-75
Kootenai River near Copeland	12318500	13,400	1928-92
Parker Creek near Copeland	12319500	16.5	1928-34
Long Canyon Creek near Porthill	12320500	29	1931-59
Smith Creek below Diversion near Porthill	12320700	--	1990-92
Smith Creek near Porthill	12321000	70	1928-60
Pend Oreille River Basin			
Pack River near Colburn	12392300	124	1958-83
Pack River above Rapid Lightning Creek near Colburn	12392390	219	1989-93
Rapid Lightning Creek near Colburn	12392400	48.0	1963-68
Rapid Lightning Creek near Colburn	12392450	48.6	1989-90
Sand Creek near Sandpoint	12392660	36.6	1989-90, 1991-93
Blanchard Creek above Reservoir near Blanchard	12392895	31.46	1980-83, 1984-86
Priest River at Outlet of Priest Lake near Coolin	12393500	572	1912-48
Priest River at Falk Ranch near Priest River	12394500	792	1911-12
Spokane River Basin			
Coeur d'Alene River at Prichard	12411500	441	1912-14
Coeur d'Alene River near Prichard	12412000	583	1944-53
North Fork Coeur d'Alene River near Enaville	12412500	170	1912
South Fork Coeur d'Alene River above Deadman Gulch near Mullan	12413040	--	1999-2000
Placer Creek at Wallace	12413140	14.9	1968-97,1999-2000
South Fork Coeur d'Alene River at Silverton	12413150	108	1967-2000
Big Creek near Kellogg	12413180	20.9	1970-75
South Fork Coeur d'Alene River at Kellogg	12413250	194	1974-82
South Fork Coeur d'Alene River at Smelterville	12413300	202	1967-74
West Fork Pine Creek near Pinehurst	12413400	10.8	1967-71
Latour Creek near Cataldo	12413700	24.8	1967-71
Coeur d'Alene River at Rose Lake	12413810	1,318	1995-2000
St. Joe River at Avery	12414000	594	1911-17
Marble Creek near Calder	12414200	138	1984-88

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			
Spokane River Basin--Continued			
Big Creek above East Fork near Calder	12414350	38.83	1981
St. Maries River at Lotus	12415000	437	1912-13, 1920-66
St. Joe River at St. Maries	12415075	1,725	1991-93
St. Joe River near Chatcolet	12415140	--	1991-93
Plummer Creek near Plummer	12415250	--	1991-93
Fighting Creek near Rockford Bay	12415285	--	1991-93
Carlin Creek near Harrison	12415290	--	1991-93
Wolf Lodge Creek near Coeur d'Alene	12415350	39.4	1986-95
Hayden Creek below North Fork near Hayden Lake	12416000	22.0	1948-54, 1959, 1966-97
Hayden Creek near Hayden Lake	12416500	26	1946-48
Hayden Lake Irrigation District Div near Hayden Lake	12417500	--	1946-53
Spokane Valley Farms Company Canal near Post Falls	12418500	--	1911-17, 1920-66
Twin Lakes near Rathdrum	12419200	41.2	1965-68
Hangman Creek near Tensed	12422950	125	1981-82, 1989-90
Snake River Basin			
King Hill Creek near King Hill	13155000	83.6	1913, 1938-41
King Hill Irrigation District Pumping Plant at Glenns Ferry	13155074	--	1991-94
Little Canyon Creek at Stout Crossing near Glenns Ferry	13155300	14.2	1966-72
Morrow Reservoir Feeder Canal near Glenns Ferry	13155350	--	1962-65
Little Canyon Creek at Berry Ranch near Glenns Ferry	13155400	26.9	1961-66
Little Canyon Creek near Glenns Ferry	13155500	52.4	1909-13, 1939-43
Little Canyon Creek at Glenns Ferry	13155620	--	1985-89
Alkali Creek near Glenns Ferry	13155700	37.1	1985-87
Sailor Creek Pumping Plant near Glenns Ferry	13155750	--	1988-96
Grindstone Butte Pumping Plant near Glenns Ferry	13155800	--	1985-99
Cold Springs Creek near Hammett	13156000	65	1910-13, 1985-87
Bennett Creek near Bennett	13156500	21.3	1938-45
Bennett Creek near Hammett	13157000	68.6	1910-13, 1985-87
Danskin Cattle Company Pumping Plant near Hammett	13157015	--	1989-97
Chalk Flats Pumping Plant near Hammett	13157105	--	1988-95
Bledsoe Farm Pumping Plant near Hammett	13157110	--	1988-95
Upper Indian Cove Canal near Hammett	13157120	--	1986-91
Lower Indian Cove Canal near Hammett	13157125	--	1986-91
Wes Farris Pumping Plant near Hammett	13157130	--	1989-96
Browns Creek at Highway 78 Crossing near Hammett	13157150	--	1980-81
Flying H Ranch Pumping Plant near Hammett	13157160	--	1988-97
West Indian Cove Canal near Hammett	13157291	--	1987-91
Mecham and Sons Pumping Plant near Hammett	13157293	--	1988-95
Rocking R Ranch Canal near Hammett	13157296	--	1986-97
South Elmore Canal near Hammett	13157300	--	1985-99
Sand Dunes Farm Pumping Plant near Hammett	13157305	--	1988-97
Eagle Cove Pumping Plant near Hammett	13157310	--	1988-93
Triple C Farm Pumping Plant near Hammett	13157315	--	1988-97
Ken Johns and Son Pumping Plant near Bruneau	13157325	--	1988-97
River Ranch Pumping Plant near Bruneau	13157340	--	1989-99
Roger Young Pumping Plant near Bruneau	13157370	--	1988-97
Rattlesnake Creek near Mountain Home	13157500	27	1917
Willowdale Creek near Bennett	13158000	5.04	1917-18
Long Tom Creek below Long Tom Reservoir near Bennett	13159000	18.6	1917-18, 1924-26
Syrup Creek near Mountain Home	13159500	32.6	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			
Canyon Creek near Mountain Home	13160000	90.9	1917-18
Mountain Home Feeder Canal near Mountain Home	13160500	--	1924-69
Mountain Home Coop Canal near Mountain Home	13161000	--	1924-47
Simplot No.4 Farm Canal near Grand View	13161070	--	1987-98
Bruneau River near Tindall	13162000	440	1910-12
East Fork Jarbidge River near Three Creek	13162500	84.6	1929-33, 1954-72
Sheep Creek near Tindall	13163000	180	1911-13
Marys Creek neat Owyhee, NV	13163500	27	1914-15
Marys Creek at Tindall	13164000	110	1910-13
Louse Creek near Wickahoney	13164500	76	1911
Big Flat Creek near Three Creek	13165000	62	1912-14, 1916
Three Creek near Three Creek	13165500	45	1912-14, 1916
Cherry Creek near Three Creek	13166000	22	1913-14, 1916
Deadwood Creek near Three Creek	13166500	22	1912-14, 1916
East Fork Bruneau River below Three Creek near Three Creek	13167000	210	1953-60
East Fork Bruneau River near Hot Springs	13167500	620	1910-15, 1949-72
Bruneau River near Winter Camp Ranch	13168000	1,890	1947-51
Hot Springs Ditch below heading near Bruneau	13168600	--	1985-90
Buckaroo Ditch at Hot Springs	13169000	--	1912-14, 1985-90
Little Jacks Creek near Bruneau	13170000	100	1939-50
Basin Mutual Canal near Bruneau	13170300	--	1985-93
Grand View Farms No.3 Pumping Plant near Bruneau	13170350	--	1989-94
Grand View Canal near Grand View	13170500	--	1912-15
Little Valley Mutual Canal near Bruneau	13170700	--	1985-97
Grand View Realty Pumping Plant near Grand View	13170800	--	1985-87, 1988-1996
Bybee Lateral near Grand View	19170900	--	1985-97
Triangle Dairy Relift Canal near Grand View	13170910		1986
Bruneau River at mouth near Grand View	13171000	2,650	1895-97, 1899-1903, 1909-16, 1945-50
Grand View Mutual Canal above Grand View Irrigation District Canal near Grand View	13171340	--	1987-88
Grand View Mutual Canal below Grand View Irrigation District Canal near Grand View	13171345	--	1987-88
Castle Creek near Castle Creek	13172000	150	1910-12
K.C. Farms Canal near Oreana	13172240	--	1985-90
Murphy Flat Canal near Murphy	13172410	--	1986-97
Sinker Butte Canal near Murphy	13172420	--	1986-93
Swan Falls Irrigation District Canal near Murphy	13172505	--	2000
Jump Creek near Homedale	13172890	--	1989-94
Succor Creek near Homedale	13173000	417	1919-23
Succor Creek at mouth near Homedale	13173500	--	1903-05, 1907-10, 1988-93
Jordan Creek at Delamar Mine near Jordan Valley, OR	13177985	--	1994-96
Jordan Creek above Lone Tree Creek near Jordan Valley, OR	13178000	440	1946-53, 1955-72
Lake Owyhee near Nyssa, OR	13182500	11,160	1933-96
Owyhee River near Owyhee, OR	13184000	11,300	1890-97, 1903-16, 1920-29
Middle Fork Boise River near Twin Springs	13184500	382	1947-50, 1977-81
Banner Creek above Pikes Fork near Lowman	13184870	--	1995-98
Cottonwood Creek at Arrowrock Reservoir	13185500	20.9	1914-18, 1939-42
Lime Creek near Bennett	13186500	131	1945-56
Fall Creek near Anderson Ranch Dam	13187000	55.3	1945-56
Little Camas Canal at Heading near Bennett	13189000	--	1917-18, 1924-73

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			
Little Camas Canal below Tunnel No. 9 near Bennett	13189500	--	1917-18, 1924-26
Anderson Ranch Reservoir at Anderson Ranch Dam	13190000	980	1950-96
South Fork Boise River near Lenox	13191000	1,090	1911-48
Smith Creek near Lenox	13191500	50.3	1916-17
Long Gulch Creek near Lenox	13192000	10.5	1916
Rattlesnake Creek near Lenox	13192500	46	1916-17
Willow Creek near Lenox	13193000	55.1	1916-17
Grouse Creek near Arrowrock Dam	13193500	8.0	1939-41
Arrowrock Reservoir at Arrowrock Dam	13194000	2,210	1918-96
Boise River at Dowling Ranch near Arrowrock	13194500	2,220	1911-55
Gold Hill Placer diversion from Moore Creek near Idaho City	13195000	--	1939-41
Moore Creek above Granite Creek near Idaho City	13195500	37	1939-41
Granite Creek near Idaho City	13196000	4.8	1939-41
Bannock Creek near Idaho City	13196500	5.75	1939-42, 1951-72
Pine Creek above Barry Placer diversion near Idaho City	13197000	6.1	1940-41
Pine Creek near Idaho City	13197500	6.5	1939-40
Elk Creek above Gold Hill Placer diversion near Idaho City	13198000	13.1	1940
Elk Creek near Idaho City	13198500	22.3	1939-40
Mores Creek above Thorn Creek near Idaho City	13199000	119	1939-41
Grimes Creek at New Centerville	13199500	--	1966
Robie Creek near Arrowrock Dam	13200500	15.8	1951-72
Mores Creek near Arrowrock	13201000	426	1916-54
New York Canal below Diversion Dam near Boise	13203000	--	1986-95
Lake Lowell near Caldwell	13203500	--	1918-78
Boise River below Diversion Dam near Boise	13203510	2,680	1987-94
Boise River at Barber	13203700	2,690	1936
Diversions from Boise River between near Boise and at Boise gages	13204500	--	1919-83
Cottonwood Gulch at Boise	13205000	16	1939-41
Boise River at Boise	13205500	2,760	1940-83
Americana Blvd Storm Sewer at Boise	13205525	--	1973-74
Crane Creek at 1206 Ranch Road at Boise	13205633	7.21	1980-86
Spring Valley Creek near Boise	13206500	20	1912
Spring Valley Creek near Eagle	13207000	20.9	1955-59, 1961-72
Dry Creek near Eagle	13207500	59.4	1954-68
Dry Creek at Eagle	13208000	--	1954-57
Boise River (North Channel) near Eagle	13208500	--	1936-38
Boise River (South Channel) near Eagle	13209500	--	1936-38
Boise River near Middleton	13210050	3,050	1975-97
Mason Creek near Caldwell	13210983	--	1981-82
Mason Creek at mouth at Caldwell	13211000	--	1895-96
Indian Creek above Waste Water Plant near Nampa	13211309	--	1982-96
Indian Creek at mouth near Caldwell	13211445	--	1981-83
Diversions from Boise River between at Boise and at Notus gages	13212000	--	1919-73
Boise River at Notus	13212500	3,820	1920-37, 1946-74
Dixie Drain near Wilder	13212890	--	1981-82
Diversions from Boise River between at Boise and near Parma gages	13212995	--	1974-83
Boise River near Parma	13213000	3,970	1938-39, 1971-97
Sand Run Gulch near Parma	13213072	--	1979-81
Clear Creek at Lowman	13234500	59.6	1941-49

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			
Deadwood River near Bernard	13235500	10.4	1930-32
Deadwood Reservoir near Lowman	13236000	112	1936-96
Deadwood River near Lowman	13237000	230	1921-53
South Fork Payette River near Garden Valley	13237500	779	1921-60
Cabin Creek near Smiths Ferry	13237600	0.42	1961-67
Control Creek near Smiths Ferry	13237700	0.59	1964-67
Payette River near Banks	13238000	1,200	1921-74
Fish Hatchery Diversion at McCall	13239500	--	1943-53
Lake Fork Payette River above Reservoir near McCall	13240500	54.6	1926-45
Lake Fork Reservoir near McCall	13241000	64	1926-73
Lake Fork Payette River near McCall	13241500	64	1910-14
L.I.D. Canal near McCall	13242000	--	1926-73
Lake Fork Payette River below L.I.D. Canal near McCall	13242500	64	1941-74
Cruzen Canal at Lake Fork	13243000	--	1938-48
Gold Fork River near Roseberry	13243500	143	1920-21, 1962-70
North Fork Payette River at Van Wyck	13244000	608	1912-16, 1920-25
Cascade Reservoir at Cascade	13244500	620	1948-96
North Fork Payette River near Smiths Ferry	13245500	893	1941-47
Payette River at Banks	13246500	2,120	1922-29
Porter Creek near Gardena	13247000	21.2	1939-45
Shafer Creek at Horseshoe Bend	13248000	28	1912
Harris Creek near Horseshoe Bend	13248500	17	1912-13
Squaw Creek near Gross	13249000	21	1925-28
Payette River near Letha	13250000	2,760	1952-54, 1979-87
Payette River near New Plymouth	13250500	2,850	1952-54
Big Willow Creek near Emmett	13250600	47.4	1962-83
West Branch Weiser River near Tamarack	13251300	3.96	1959-78
Weiser River at Tamarack	13251500	36.5	1937-72, 1974-76
Weiser River above East Fork Weiser River near Fruitvale	13252000	--	1937-39
East Fork Weiser River near Council	13252500	2.0	1932-43
East Fork Weiser River near Starkey	13253000	--	1937-39
Weiser River at Starkey	13253500	106	1939-49
Lost Valley Reservoir near Tamarack	13254000	29.4	1924, 1926-66
Lost Creek near Tamarack,	13254500	29.4	1910-14, 1920-21, 1924-69, 1980-83
West Fork Weiser River near Fruitvale	13255000	78	1911-13, 1920-25, 1937-49
West Fork Weiser River near Fruitvale	13255050	--	1981-82
Weiser River near Fruitvale	13255060	--	1981-83
Hornet Creek near Council	13255500	107	1937-43
Weiser River near Council	13256000	390	1937-53
Mesa Orchards Canal near Mesa	13256500	--	1924-55
Middle Fork Weiser River above Fall Creek near Mesa	13256800	59.2	1988-89
Middle Fork Weiser River near Mesa	13257000	86.5	1911-13, 1919-22, 1937-49, 1981-83, 1985-88
Johnson Creek below Johnson Park near Council	13257500	5	1941-49
Bacon Creek near Mesa, ID	13258000	0.71	1943-49
Rush Creek Powerplant Tailrace near Cambridge	13259000	--	1929-30
Rush Creek at Cambridge	13259500	32	1938-43
Pine Creek near Cambridge	13260000	54	1938-62
Little Weiser River below Mill Creek near Indian Valley	13260500	79	1923, 1981-83

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			
Little Weiser River near Indian Valley	13261000	81.9	1920-21, 1923-27, 1938-71
C Ben Ross Feeder Canal near Indian Valley	13261100	--	1981-82
C Ben Ross Reservoir near Indian Valley	13261150	--	1981-82
Little Weiser Irrigation District Canal near Indian Valley	13261200	--	1981-82
Little Weiser River near Cambridge	13261500	187	1920-26
Sage Creek near Midvale	13262000	5.56	1913
Sommercamp Creek near Midvale	13262500	2.5	1913
Miller Creek near Midvale	13263000	0.96	1913
Weiser River above Crane Creek near Weiser	13263500	1,160	1920-52
Crane Creek Reservoir near Midvale	13264000	242	1924-69, 1980-82
Crane Creek near Midvale	13264500	242	1911-16, 1924-69
Crane Creek Irrigation District Canal near Weiser	13265000	--	1920-26
Crane Creek at mouth near Weiser	13265500	288	1920-74, 1981-82
Galloway Canal near Weiser	13266500	--	1920-69
Mann Creek Reservoir near Weiser	13266900	--	1967-70
Mann Creek near Weiser	13267000	56	1911-13, 1920-21, 1937-62
Mann Creek below Mann Creek Dam near Weiser	13267050	--	1967-71
Monroe Creek (Upper Station) near Weiser	13267500	7.2	1912
Monroe Creek (Lower Station) near Weiser	13268000	29.1	1911-13
Monroe Creek above Sheep Creek near Weiser	13268500	32	1946-49
Wildhorse River at Brownlee Dam	13289960	177	1979-96
Snake River at Oxbow, OR	13290000	72,800	1926-58, 1968-71
Pine Creek near Pine, OR	13290190	230	1967-96
Snake River below Pine Creek at Oxbow, OR	13290200	73,150	1958-68
Snake River near Joseph, OR	13290500	73,800	1956-71
Salmon River near Obsidian	13292500	94.7	1941-53
Alturas Lake Creek near Obsidian	13293000	35.7	1941-52
Salmon River near Pierson	13293500	235	1911-14
Lake Creek near Stanley	13294000	44	1911-13
Salmon River at Stanley	13294500	355	1921-25
Valley Creek at Stanley	13295000	147	1911-14, 1921-73
Salmon River below Valley Creek at Stanley	13295500	501	1925-61
Yankee Fork Salmon River near Clayton	13296000	195	1921-49
Salmon River below Yankee Fork near Clayton	13296500	802	1922-91
Warm Springs Creek at Robinson Bar	13297000	81	1921-23
Little Boulder Creek near Clayton	13297450	18.4	1970-86
Big Boulder Creek near Clayton	13297500	27.5	1926-30
Herd Creek below Trail Gulch near Clayton	13297597	110	1980-85
East Fork Salmon River near Clayton	13298000	532	1929-39, 1973-82
Salmon River near Challis	13298500	1,800	1929-73
Challis Creek near Challis	13299000	85	1944-63
Challis Creek below Jeffs Creek near Challis	13299200	91.2	1963-71
Pahsimeroi River near Goldburg	13299500	65	1910-13
Pahsimeroi River below Sinks near Goldburg	13300000	176	1913
Goldburg Creek near Goldburg	13300500	54	1910
Goldburg Creek near Patterson	13301000	69	1913
Big Creek above Diversion near Patterson,	13301500	54.8	1910-13
Pahsimeroi River at Dowton Lane near May	13301900	--	1985-87
Pahsimeroi River at Bursted Lane near Ellis	13301990	--	1985-87
Pahsimeroi River near May	13302000	845	1930-59, 1971-72

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			
Texas Creek near Leadore	13303000	71.4	1939, 1955-63
Timber Creek near Leadore	13303500	57	1912, 1939
West Fork Timber Creek near Leadore	13304000	16.5	1912
Big Springs Creek near Leadore	13304200	--	1959-61
Eightmile Creek near Leadore	13304500	20	1912
Lemhi River at Salmon	13305500	1,270	1928-43
North Fork Salmon River at North Fork	13306000	214	1912, 1930-40
Napias Creek above Arnett Creek near Leesburg	13306375	21.9	1989-91
Panther Creek near Shoup	13306500	529	1945-78
Salmon River near Shoup	13307000	6,270	1944-82
Marsh Creek near Cape Horn	13307500	73	1922, 1924
Beaver Creek at Cape Horn	13308000	54	1922, 1924
Middle Fork Salmon River near Capehorn	13308500	183	1929-72
Bear Valley Creek near Capehorn	13309000	180	1921-60
Middle Fork Salmon River near Meyers Cove	13309500	2,020	1931-39
Big Creek near Big Creek	13310000	470	1945-59
South Fork Salmon River near Knox	13310500	92	1929-61
Dollar Creek near Warm Lake near Cascade	13310520	16.5	1990-94
Blackmare Creek near Poverty Flat near Cascade	13310565	17.8	1990-94
South Fork Salmon River at Poverty Flat near Cascade	13310570	221.5	1990-92
Little Buckhorn Creek near Krassel Ranger Station	13310660	5.99	1990-94
West Fork Buckhorn Creek near Krassel Ranger Station	13310670	22.6	1990-94
East Fork South Fork Salmon River at Stibnite	13311000	19.6	1928-43, 1983-97
East Fork South Fork Salmon River near Stibnite	13311500	42.5	1928-41
East Fork South Fork Salmon River near Yellow Pine	13312000	104	1928-43
Johnson Creek near Landmark Ranger Station	13312500	54.7	1943-49
Secesh River near Burgdorf	13313500	104	1943-52
Tailholt Creek near Yellow Pine	13313800	2.6	1959-62
South Fork Salmon River near Warren	13314000	1160	1931-43
Warren Creek near Warren	13314500	37	1943-50
Salmon River near French Creek	13315000	12,270	1945-56
Mud Creek near Tamarack	13315500	15.8	1937-38, 1946-59
Boulder Creek near Tamarack	13316000	6.5	1938-45
John Day Creek below diversion near Lucille	13316530	--	1988-89
John Day Creek near mouth near Lucille	13316535	--	1987-89
North Fork Skookumchuck Creek near White Bird	13316800	15.3	1961-72
Deer Creek near Winchester	13317500	19.1	1952-57
Selway River above Meadow Creek near Lowell	13336000	1,550	1945-49
Meadow Creek near Lowell	13336100	241	1964-70
Gedney Creek near Selway Falls	13336300	48.15	1981-82
Walton Creek near Powell Ranger Station	13336635	11.6	1986-88
Warm Springs Creek near Powell Ranger Station	13336800	74.7	1957-59
Fish Creek near Lowell	13336900	89.2	1958-67
Clear Creek near Kooskia	13337100	100	1962-63, 68,1971-73
South Fork Clearwater River near Elk City	13337500	261	1945-75
South Fork Clearwater River near Grangeville	13338000	865	1911-16, 1923-63
Lawyer Creek near Nezperce	13338800	150	1967-75
Clearwater River at Kamiah	13339000	4,850	1910-66
Orofino Creek above Whiskey Creek near Orofino	13339800	191	1982-83
North Fork Clearwater River at Bungalow Ranger Station	13340500	996	1945-69
Beaver Creek near Canyon Ranger Station	13340615	51.7	1984-88

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			
Little North Fork Clearwater River near Elk River	13340760	262	1971-75
Breakfast Creek near Elk River	13340780	129	1971-74
Reeds Creek near Headquarters	13340855	62.6	1983-87
North Fork Clearwater River at Ahsahka	13341000	2,440	1926-68
Long Hollow Creek near Nezperce	13341128	17.66	1980-86
East Fork Potlätch River below Mallory Creek near Bovill	13341200	18.2	1959-60
Bloom Creek near Bovill	13341300	3.15	1959-72
East Fork Potlatch River near Bovill	13341400	41.6	1959-72
Potlatch River at Kendrick	13341500	425	1946-60
Mission Creek near Winchester	13342000	16.5	1942-45
Twentyone Ranch Spring near Waha	13342200	--	1958-60
Clearwater River Near Lewiston	13343000	9,640	1911-14, 1926-27
Cow Creek at Genesee	13350448	34.3	1980-83, 1984-86

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)
Columbia River Basin				
Kootenai River Basin				
Kootenai River at Leonia	12305000	11,740	Temp.	1962-63, 1965-86
Kootenai River near Copeland	12318500	13,400	Temp.	1966-82
			S.C.	1979-83
			Sed.	1966-83
Kootenai River at Porthill	12322000	13,770	S.C., Sed.	1983-91
Clark Fork below Cabinet Gorge Dam near Cabinet	12391950	22,067	Temp.	1998, 2000
Priest River near Priest River	12395000	902	Temp.	1998, 2000
Spokane River Basin				
Big Creek above East Fork near Calder	12414350	39	S.C., Sed.	1981
Snake River Basin				
Bruneau River near Hot Springs	13168500	2,630	Temp.	1997, 2000
Snake River near Murphy	13172500	41,900	Temp.	1997, 2000
Boise River near Twin Springs	13185000	830	Temp.	1955-57, 1959, 1977-79, 1997-98, 2000
South Fork Boise River near Featherville	13186000	635	Temp.	1963-65, 1977, 1978-79
South Fork Boise River at Anderson Ranch Dam	13190500	982	Temp.	1977-79
South Fork Boise River at Neal Bridge near Arrowrock	13192200	--	Temp.	1977-79
Mores Creek above Robie Creek near Arrowrock	13200000	399	Temp.	1965-67, 1969-72
Boise River below Diversion dam near Boise	13203510	2,680	Temp.	1997, 1999
Boise River near Middleton	13210050	3,050	Temp.	1997, 1998-99
Boise River at Notus	13212500	3,820	Temp.	1957, 1959-67, 1969-73
			S.C.	1952-73
Boise River near Parma	13213000	3,970	S.C.	1973-75, 1976, 1977
			Temp.	1973, 1974-76, 1986-95, 1997, 1998-99
Snake River at Nyssa, OR	13213100	58,700	Temp.	1975, 1989-90, 1997-98, 2000
			S.C.	1975, 1977, 1989-90
			pH	1989-90
			D.O.	1989-90
Boiling Springs (left channel) at Boiling Springs Guard Station	13237538	--	Temp.	1978-81
Payette River near Banks	13238000	1,200	Temp.	1971-73
North Fork Payette River at McCall	13239000	144	Temp.	1998
North Fork Payette River at Cascade	13245000	620	Temp.	1998
North Fork Payette River near Banks	13246000	933	Temp.	1971-74
Payette River near Horseshoe Bend	13247500	2,230	Temp.	1971-74
Payette River near Emmett	13249500	2,680	Temp.	1959
Payette River near Payette	13251000	3,240	Temp.	1997-99
West Branch Weiser River near Tamarack	13251300	3.9	Temp.	1959-61, 1962-73, 1974-76
Middle Fork Weiser River near Mesa	13257000	86	Temp.	1985-87
Weiser River near Weiser	13266000	1,460	Temp.	1959-61, 1997-98, 2000

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				
Snake River at Weiser	13269000	69,200	Temp.	1969-70, 1972, 1974-75, 1976-81, 1999
Snake River below Pine Creek at Oxbow, OR	13290200	73,150	Temp.	1958-73
Salmon River above Redfish Lake Creek near Stanley	13293800	--	Temp.	1978-84
Redfish Lake Creek at outlet of Redfish Lake near Stanley	13293890	--	Temp.	1979-80
Redfish Lake Creek below Lake near Stanley	13293900	--	Temp.	1979-80
Valley Creek at Stanley	13295000	147	Temp.	1959
Yankee Fork Salmon River near Clayton	13296000	195	Temp.	1978-80
Little Boulder Creek near Clayton	13297450	18	Temp.	1970-76, 1977-78
East Fork Salmon River above Big Boulder Creek near Clayton	13297453	--	Temp.	1981-84
Lemhi River at Leadore	13303300	--	Temp.	1978
Big Springs Creek near Leadore	13304185	--	Temp.	1978
Big Springs Creek near Leadore	13304200	--	Temp.	1959-61
Panther Creek near Colbalt	13306300	--	Temp.	1960
North Fork Shookumchuck Creek near White Bird	13316800	15	Temp.	1960
Salmon River at White Bird	13317000	13,550	Temp. S.C.	1967-80 1978-80, 2000
Selway River near Shearer Guard Station	13335500	--	Temp.	1960-61
Bear Creek near Shearer Guard Station	13335600	--	Temp.	1960-61
Moose Creek near Moose Ranger Station	13335700	--	Temp.	1960
Meadow Creek near Lowell	13336100	241	Temp.	1964-68, 1969-70
Gedney Creek near Selway Falls	13336300	48.2	Temp., S.C.	1981
Selway River near Lowell	13336500	1,910	Temp.	1958-59
White Sand Creek near Powell Ranger Station	13336620	--	Temp.	1976-77
Crooked Fork near Powell Ranger Station	13336630	--	Temp.	1976-77
Walton Creek near Powell Ranger Station	13336635	11.6	Temp.	1986, 1987, 1988
Lochsa River near Powell Ranger Station	13336700	--	Temp.	1959
Warm Springs Creek at Jerry Johnson Hot Springs near Powell Ranger Station	13336750	--	Temp.	1957, 1959
Warms Springs Creek near Powell Ranger Station	13336800	75	Temp.	1957, 1959
Fish Creek near Lowell	13336900	89	Temp.	1959-60
Lochsa River near Lowell	13337000	1,180	Temp.	1956, 1957, 1959
Clear Creek near Kooskia	13337100	100	Temp.	1962
South Fork Red River at Red River Ranger Station	13337177	--	Temp.	1984, 1985, 1986
Red River below South Fork near Red River Ranger Station	13337180	--	Temp.	1394, 1985, 1986
Crooked River near Orogrande	13337510	--	Temp.	1984, 1985, 1986 1987, 1988
Crooked River near mouth near Elk City	13337520	--	Temp.	1984, 1985, 1986 1987, 1988
Clearwater River at Kamiah	13339000	4,850	Temp.	1956-57, 1959
Little North Fork Clearwater River near Elk River	13340760	262	Temp.	1971-73, 1974
North Fork Clearwater River at Ahsahka	13341000	2,440	Temp. Sed.	1959-70 1966-68
East Fork Potlatch River below Mallory Creek near Bovill	13341200	18	Temp.	1959-60
Bloom Creek near Bovill	13341300	3	Temp.	1959-90
East Fork Potlatch River near Bovill	13341400	42	Temp.	1960
Twenty-one Ranch Spring near Waha	13342200	--	Temp.	1959-60, 1985-86
Lapwai Creek near Lapwai	13342450	235	Temp.	1998, 2000
Palouse River near Potlatch	13345000	317	Temp.	1998, 2000



Construction work on Jackson Lake dam near Jackson, WY. (Oct. 1914)

INTRODUCTION

The Water Resources 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 193 stream-gaging stations and 18 irrigation diversions; stage only records for 6 stream-gaging stations; stage only for 6 lakes and reservoirs; contents only for 13 lakes and reservoirs; water quality for 98 stream-gaging stations and partial record sites, 3 lake sites, and 394 wells; and water levels for 484 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 tthe 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-01-2." 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, Steven Huffaker, Director
Idaho Department of Health and Welfare, Carl Kurtz, Director
Idaho Department 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 14 gaging stations and 75 observation wells; U.S. Army Corps of Engineers, in collecting records for 24 gaging stations and 3 water-quality stations; U.S. Department of Energy, in collecting records for 6 gaging stations; U.S. Environmental Protection Agency, in collecting records for 5 gaging stations; U.S. Department of Agriculture, in collecting records at 2 gaging stations; U.S. Department of State, in collecting records for 4 gaging stations; Bonneville Power Administration, in collecting records for 5 gaging stations; Bureau of Indian Affairs, in collecting records for 4 gaging stations; City of Boise, Idaho, in collecting records for 2 gaging stations; City of Pocatello, Idaho, in collecting records for 1 gaging station; 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; Clearwater Soil and Conservation Service; 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 Natural Resources Conservation Service reported that record low snowpack, followed by a dry spring and summer with below normal precipitation resulted in near record low summer streamflows across the state during the 2001 water year. The lack of snow and spring rains resulted in low snowmelt peaks, which occurred 2-4 weeks earlier than normal, and flows at the beginning of June at levels usually seen in mid- to late summer. Streamflows in the Coeur d'Alene River basin in north Idaho and the Weiser, Payette, and Boise River basins in southern Idaho were only near half of the long-term average. Precipitation data indicates that this drought may actually have begun in July 1999 after the end of the snowmelt period. The range of annual precipitation and streamflow during the 2001 water year for the major drainage basins in Idaho, as compared with the 30-year average, is listed in the table below. The 2000 water year figures are included for yearly comparison. Precipitation figures are provided by the Natural Resources Conservation Service.

Precipitation and Streamflow as Percent of 30-year Average

Drainage Basin	Precipitation		Streamflow	
	Water Year		Water Year	
	2000	/ 2001	2000	/ 2001
Panhandle	102%	59%	104%	42%
Clearwater River	96%	65%	91%	69%
Salmon River	86%	69%	79%	68%
Weiser, Payette, Boise Rivers	89%	64%	85%	54%
Southside Snake	78%	77%	53%	75%

Figures 5-7 (pages 41-45) show locations of streamflow gaging stations throughout the state.

Despite the below normal runoff from streamflows, which resulted in earlier drawdowns of reservoir storage, irrigation supplies in the upper Snake River were adequate because of good reservoir carryover from the previous water. Reservoir carryover across southern Idaho is very low going into the next water year.

Storage in southwestern Idaho at the end of September 2001 was down significantly at 61% of the September 2000 figure, and was only 53% 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.

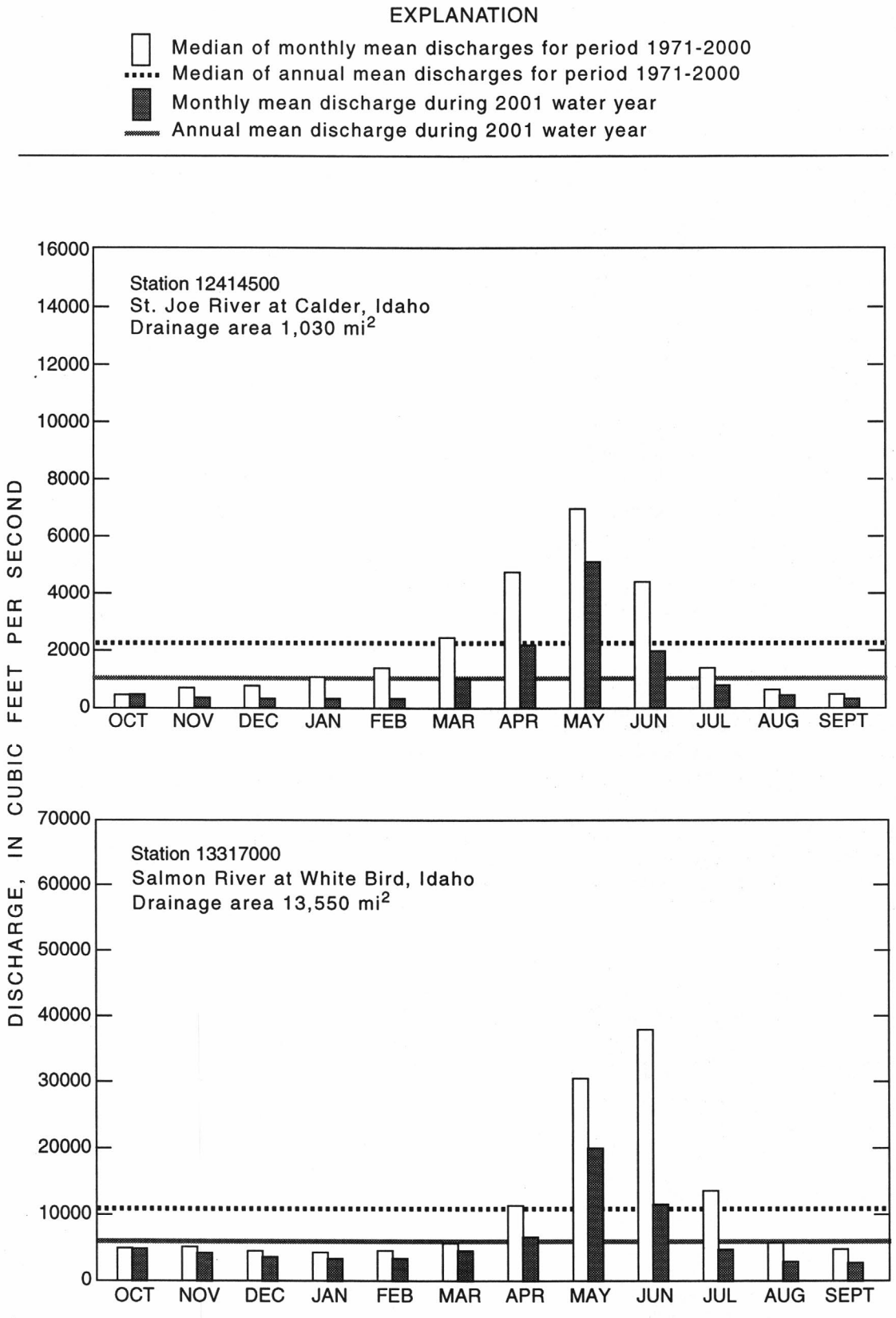

Figure 1. Discharge during 2001 water year compared with median discharge for period 1971-2000 for two representative gaging stations.

Table 1 shows total reservoir storage on September 30, 2001, compared with data for September 30, 2000 and with the 1991-2000 10-year average for a representative group of reservoirs.

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

Reservoir group	September 2000	September 2001	1991-2000 average
Six major irrigation reservoirs in Boise and Payette River basins	865,500	528,000	994,000
Three major power and flood-control reservoirs in northern Idaho	3,750,000	3,814,000	3,812,000

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 2001, water levels were measured at various intervals in 323 wells and continuously (sites equipped with automatic recorders) in 9 wells in the Federal-State Cooperative observation-well network. In addition, water-level measurements were made monthly and bimonthly in 75 wells by the U.S. Bureau of Reclamation, and 16 wells for Water District 31. Water levels were also measured in 61 wells for Special Projects and data published in this report. Figures 19-23 (pages 309-313) show locations of observation wells in various parts of the state.

The Rathdrum Prairie aquifer in northern Idaho is the major source of potable water for Coeur d'Alene and Post Falls, Idaho, and Spokane, Washington. The U.S. Environmental Protection Agency has given the aquifer a "Sole Source" designation. As such, the aquifer is protected from degradation by pollution. Comparing March 2000 and March 2001 water levels declined 0.2 foot in the northern part of Rathdrum Prairie, declined 2.8 feet in the west-central area near Twin Lakes, and declined 6.1 feet in the southern part near Post Falls.

Water levels in the Moscow basin declined 6.1 feet in the Lewiston Orchards area.

In the Weiser River Valley water levels declined 1.3 feet north of Council, and ranged from a rise of 0.2 foot to a decline of 0.9 foot south of Council, and declined on average 1.6 feet in the Weiser area.

Water levels in the Payette River Valley of west-central Idaho declined on average 1.5 feet, declined 0.5 foot in the shallow aquifer near Emmett and declined 0.5 foot east of New Plymouth. Water levels in the artesian system west of Emmett declined on average 0.6 foot.

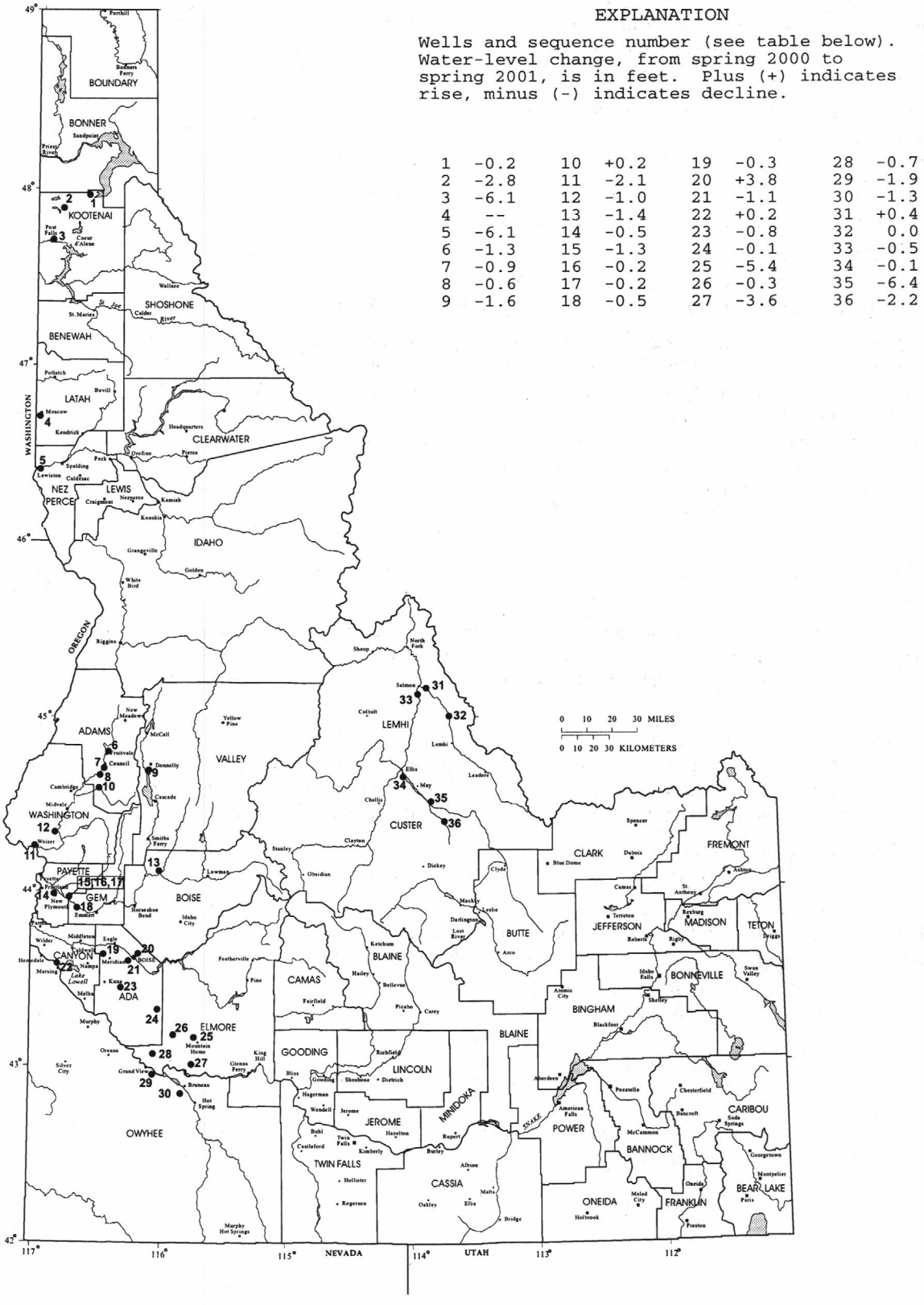

Figure 2. Water-level changes in selected observation wells.

In the Salmon and Lemhi River valleys of east-central Idaho, water levels remained about the same near Tendoy, declined 0.5 foot in one well south of Salmon, and rose 0.4 foot in another well southeast of Salmon. Water levels in the Pahsimeroi River valley, a major tributary to the Salmon River, declined 2.2 feet in the upper part of the valley, declined 6.4 feet near Patterson, and declined 0.1 foot near the mouth of the valley.

In the Boise Valley of southwestern Idaho, water levels in the shallow aquifer, which is recharged by infiltration of water from unlined canals and ditches, ranged from a rise of 0.2 foot to a decline of 1.1 feet. In areas of the Boise Valley where ground water is extensively withdrawn from the deep aquifer, water levels declined on average 0.5 foot.

Increased development of the geothermal aquifer underlying the Boise Front and the city of Boise has resulted in a Ground-water Management Area designation by the Idaho Department of Water Resources. In one well near the Boise Front, the water level rose 3.8 feet.

In areas of ground-water development on the Mountain Home plateau, water levels declined on average 2.5 feet. South of the Snake River near Bruneau, water levels declined 1.3 feet. Near Grand View water levels declined 1.9 feet.

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 regional aquifer in the Snake River Plain near Gooding recovered to above average during June and July 1995, and January 1996 to June 2000, but is currently below average. One well monitoring the shallow aquifer in the Boise River valley is below average. This well did reach a new all time low water level in June 2001 and tied the record low for July 2001. 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 August 2001.

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.

Samples were collected monthly, April through September, at 16 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 213 wells June through September as part of the "State-Wide Groundwater Quality Monitoring Network". The analyzed constituents were nutrients, common ions, bacteria, trace elements and volatile organic compounds. Alpha Analytical, Inc., Sparks, Nevada performed the analyses for volatile organic compounds. This data is available from the Idaho Department of Water Resources.

Water quality sampling continued at 4 Boise River sites and 15 drains to the Boise river as part of the "Lower Boise River" project. The analyzed constituents were nutrients, bacteria, and suspended sediment.

Samples for cadmium, copper, lead, zinc, calcium, magnesium and hardness were collected at 10 sites within the Spokane River basin. The samples were collected for the "Remedial Investigation/Feasibility Study of the Spokane River Basin". Trace metals were also collected at 12 sites within the Spokane River basin for the "Abandon Mine Lands" study.

The collection of water chemistry and profile data at 3 sites on Payette Lake continued. Additional water chemistry samples were collected at 2 Payette river sites.

DEFINITION OF TERMS

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

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

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

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

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

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

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

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

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

Artificial substrate is a device that is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is 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. (See also "Substrate")

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

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.

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

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

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

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

discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload" and "Sediment")

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

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

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

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

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

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

Bottom material (See "Bed material")

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

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

sphere $4/3\ \pi r^3$ cone $1/3\ \pi r^3 h$ cylinder $\pi r^3 h$.

pi is the ratio of the circumference to the diameter of a circle; pi = 3.14159...

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

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

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

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

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

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

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

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

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

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

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

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per

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minute, or 0.02832 cubic meters per second. The term "second-feet" sometimes is used synonymously with "cubic feet per second" but is now obsolete.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\bar{d} = -\sum \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

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

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

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

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

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

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

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

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

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an 'E' code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an 'E' code even though the measured value is greater than the MDL. A value reported with an 'E' code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<).

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

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semi-volatile and extractable by ethyl acetate from air-dried streambed 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 streambed sediments.

Fecal coliform bacteria 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. (See also "Bacteria")

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

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

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

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

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the

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gage datum, the gage height is negative. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used in reference to a reading on a gage.

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

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

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

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

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

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

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

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution 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.

Horizontal datum (See "Datum")

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Minimum Reporting Level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method (Timme, 1995).

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

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is

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determined from the distribution of gas-positive cultures among multiple inoculated tubes.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Classification	Size (mm)	Method of analysis
Clay	0.00024 - 0.004	Sedimentation
Silt	0.004 - 0.062	Sedimentation
Sand	0.062 - 2.0	Sedimentation/sieve
Gravel	2.0 - 64.0	Sieve

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.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and

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

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

Percent shading is determined by using a clinometer to estimate left and right bank shading. The values are added together and divided by 180 to determine percent shading relative to a horizontal surface.

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

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

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

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

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. (See also "Plankton")

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

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

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

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

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 (carbon method) by the plants.

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

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

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic

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weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

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

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

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

Return period (See "Recurrence interval")

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

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

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

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

Seven-day 10-year low flow (7Q10) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-run average. The recurrence interval of the 7Q10 is 10 years; the chance that the annual 7-day minimum flow will be less than the 7Q10 is 10 percent in any given year. (See also "Recurrence interval" and "Annual 7-day minimum")

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

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

Stable isotope ratio (per MIL/MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine

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the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

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

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

Substrate is the physical surface upon which an organism lives.

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

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

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

Surficial bed material is the upper surface (0.1 to 0.2 ft) of the bed material such as that material which 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 operationally defined as the material retained on a 0.45-micrometer filter.

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

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

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

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

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

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

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

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution

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for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa richness is the total number of distinct species or groups and usually decreases with pollution. (See also "Percent Shading")

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

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

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 45° N. 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 45° N. latitude.

Cool – intermediate between cold and warm water temperature preferences.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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-percent plant and 25-percent animal material.

Piscivore – diet composed predominantly of fish.

Turbidity is the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values. Consequently, the method of measurement and type of instrument used to derive turbidity records should be included in the "REMARKS" column of the Annual Data Report.

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

Vertical datum (See "Datum")

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

Water table is the level in the saturated zone at which the pressure is equal to the atmospheric pressure.

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

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2001, is called the "2001 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.

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

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

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

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and 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. (See also "Plankton")

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.

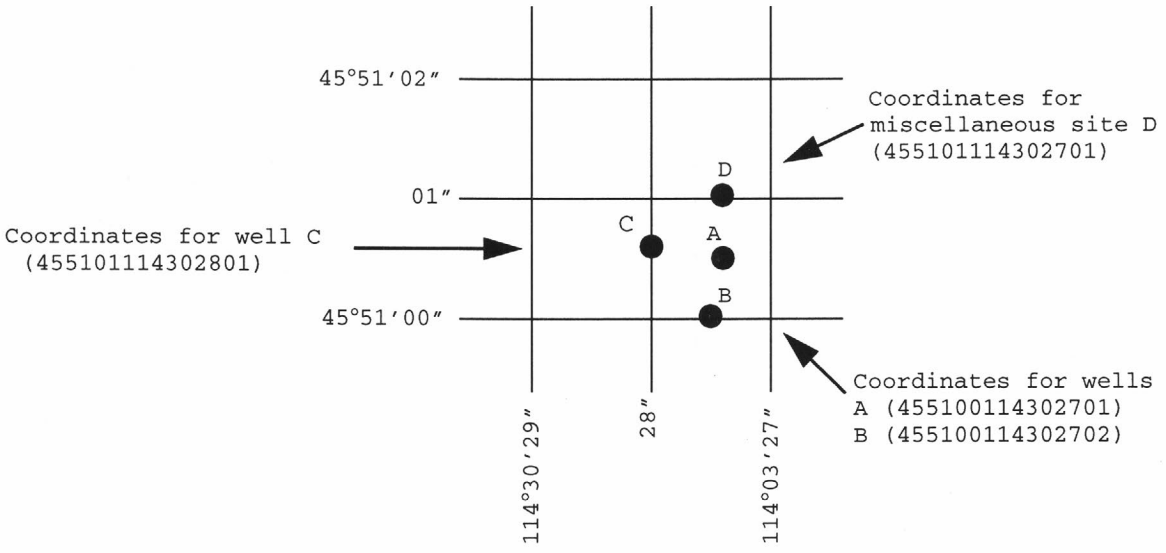

Figure 3. System for numbering wells and miscellaneous sites (latitude and longitude)

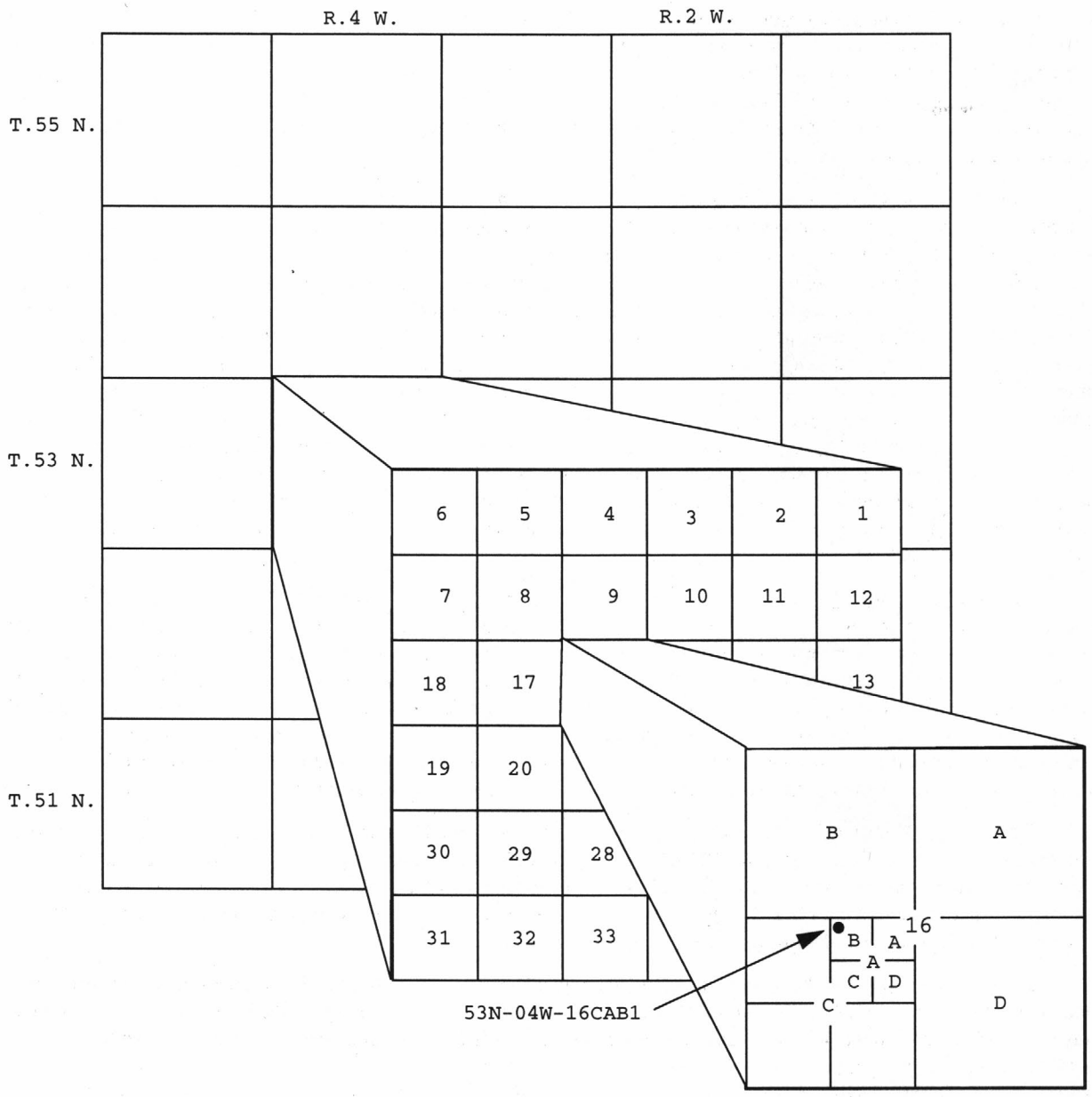

Figure 4. Diagram showing Idaho well-numbering system.

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 streamflow representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities. At 10 of these sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the affects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program can be found at http://water.usgs.gov/hbn/.

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

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

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

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

EXPLANATION OF THE RECORDS

The surface-water, ground-water and water-quality records published in this report are for the 2001 water year that began October 1, 2000 and ended September 30, 2001. 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. If errors in published water-quality records are discovered after publication, appropriate updates are made in the U.S. Geological Survey's distributed data system, NWIS, and subsequently to its web-based National data system, NWISWeb [http://water.usgs.gov/nwis/nwis]. 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 NWIS or NWISWeb to ensure the most recent updates. Updates to NWISWeb are currently made on an annual basis.

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

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the 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$$^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 on-site when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chapter D2: Book 3, Chapters A1, A3 and A4; Book 9, Chapters A1-A9. 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 SPECIAL NETWORKS AND PROGRAMS) 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.

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)

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 samples 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 collected in this District are:

Source solution blank - a blank solution that is transferred to a sample bottle in an area of the office laboratory with an atmosphere that is relatively clean and protected with respect to target analytes.

Ambient blank - a blank solution that is put in the same type of bottle used for an environmental sample, kept with the set of sample bottles before sample collection, and opened at the site and exposed to the ambient conditions.

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.

Pump blank - a blank solution that is processed through the same pump-and-tubing system used for an environmental sample.

Standpipe blank - a blank solution that is poured from the containment vessel (stand-pipe) before the pump is inserted to obtain the pump blank.

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

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

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

Canister blank - a blank solution that is taken directly from a stainless steel canister just before the VOC sampler is submerged to obtain a field blank sample.

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

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

Concurrent sample - a type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating collection of samples into two or more compositing containers.

Sequential sample - 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.

Concurrent sample - a type of spike sample that is collected at the same time with the same sampling and compositing devices then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

Split sample - a type of spike sample in which a sample is split into subsamples contemporaneous in time and space then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

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 21).

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.)

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

The U.S.G.S. 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.G.S., Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). For ASK-USGS, telephone 1-888-275-8747. Prepayment is required. Remittance should be made in the form of a 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 mention the "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 presentation*, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS–TWRI book 1, chap. D1. 1975. 65 p.

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

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

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

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

Section E. Subsurface Geophysical Methods

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

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

Section F. Drilling and Sampling Methods

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

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3-A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 p.

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

3-A17. *Acoustic velocity meter systems,* by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 p.

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

3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A19. 1990. 31 p.

3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI book 3, chap. A20. 1993. 38 p.

3-A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 p.

Section B. Ground-Water Techniques

3-B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 p.

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

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

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

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

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

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

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

3-B8. *System and boundary conceptualization in ground-water flow simulation,* by T.E. Reilly: USGS–TWRI book 3, chap. B8. 2001. 29 p.

Section C. Sedimentation and Erosion Techniques

3-C1. *Fluvial sediment concepts,* by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 p.

3-C2. *Field methods for measurement of fluvial sediment*, by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 p.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 p.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4-A1. *Some statistical tools in hydrology,* by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 p.

4-A2. *Frequency curves,* by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 p.

Section B. Surface Water

4-B1. *Low-flow investigations,* by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 p.

4-B2. *Storage analyses for water supply,* by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 p.

4-B3. *Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 p.

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, chap. D1. 1970. 17 p.

Book 5. Laboratory Analysis

Section A. Water Analysis

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

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

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

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

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

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

Section C. Sediment Analysis

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

Book 6. Modeling Techniques

Section A. Ground Water

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

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

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

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

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

6-A6. *A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction*, by Eric D. Swain and Eliezer J. Wexler: USGS–TWRI book 6, chap. A5,1996. 125 p.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

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

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

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

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

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

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

Section B. Instruments for Measurement of Discharge

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

Book 9. Handbooks for Water-Resources Investigations

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

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

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

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

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

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

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

9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.

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

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

The following figures 5-9 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

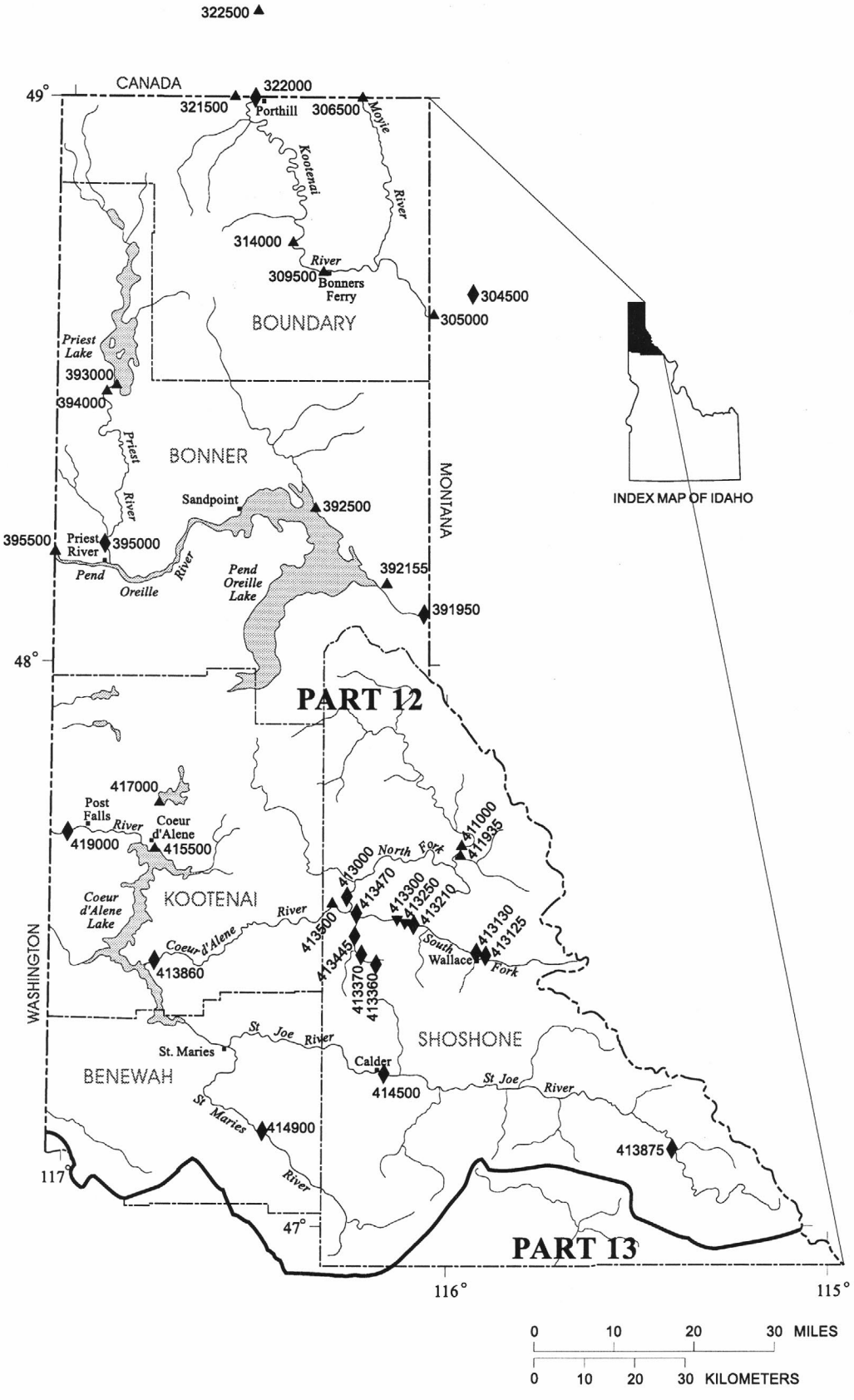


Figure 5. Locations of surface-water and water-quality stations in north Idaho and water-quality stations in the Spokane River basin in Washington.

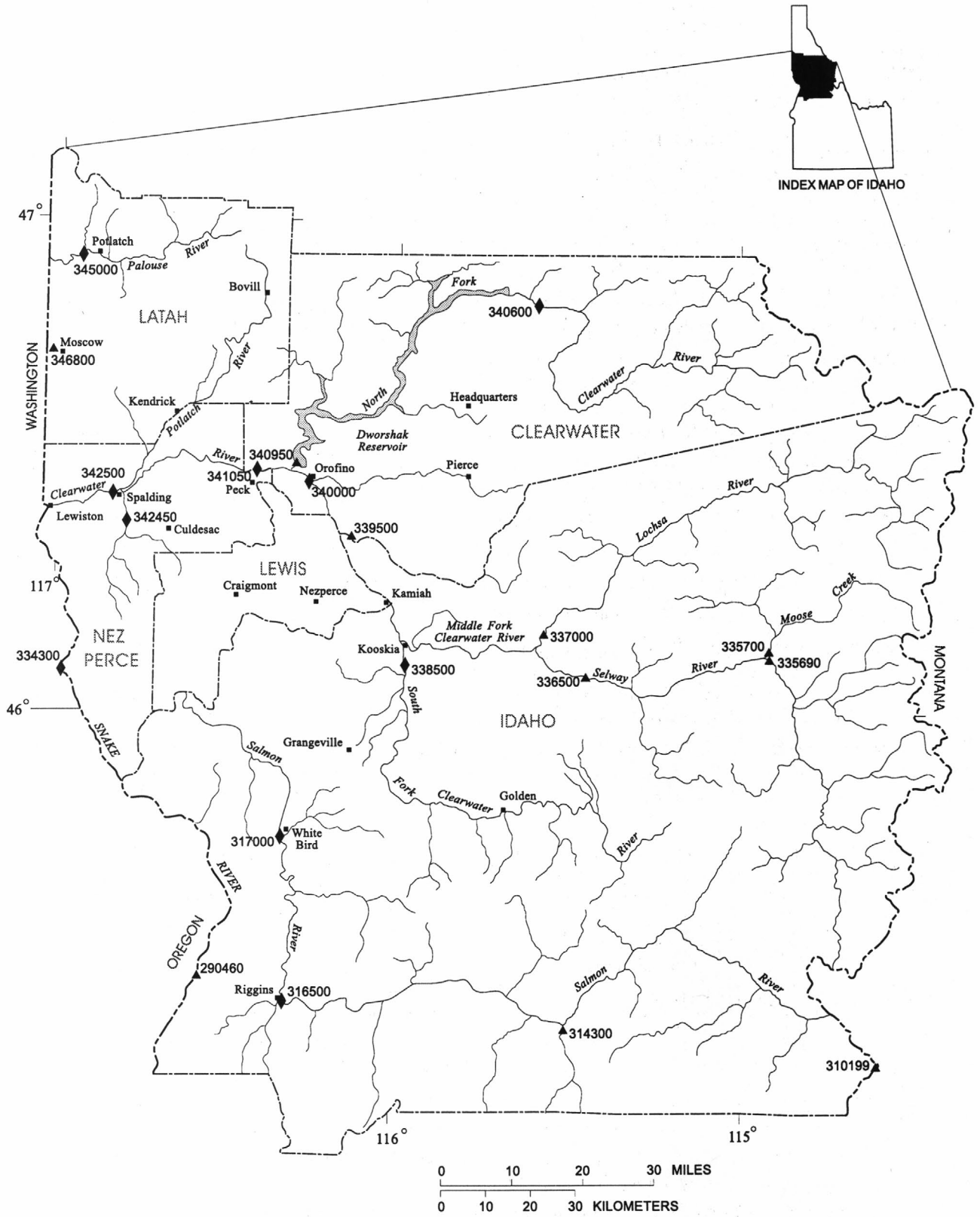


Figure 6. Locations of surface-water and water-quality stations in north-central Idaho.

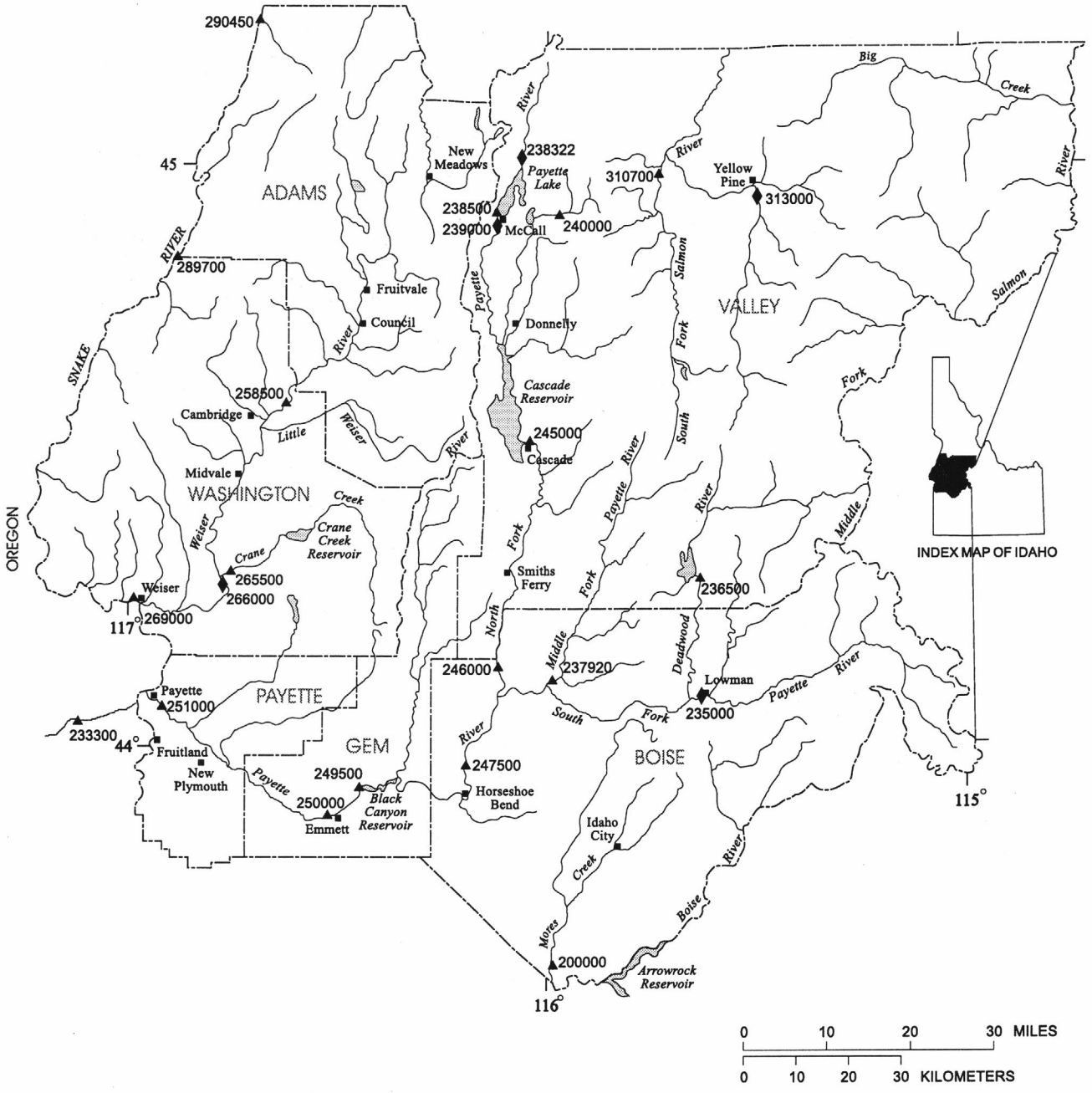


Figure 7. Locations of surface-water and water-quality stations in west-central Idaho.

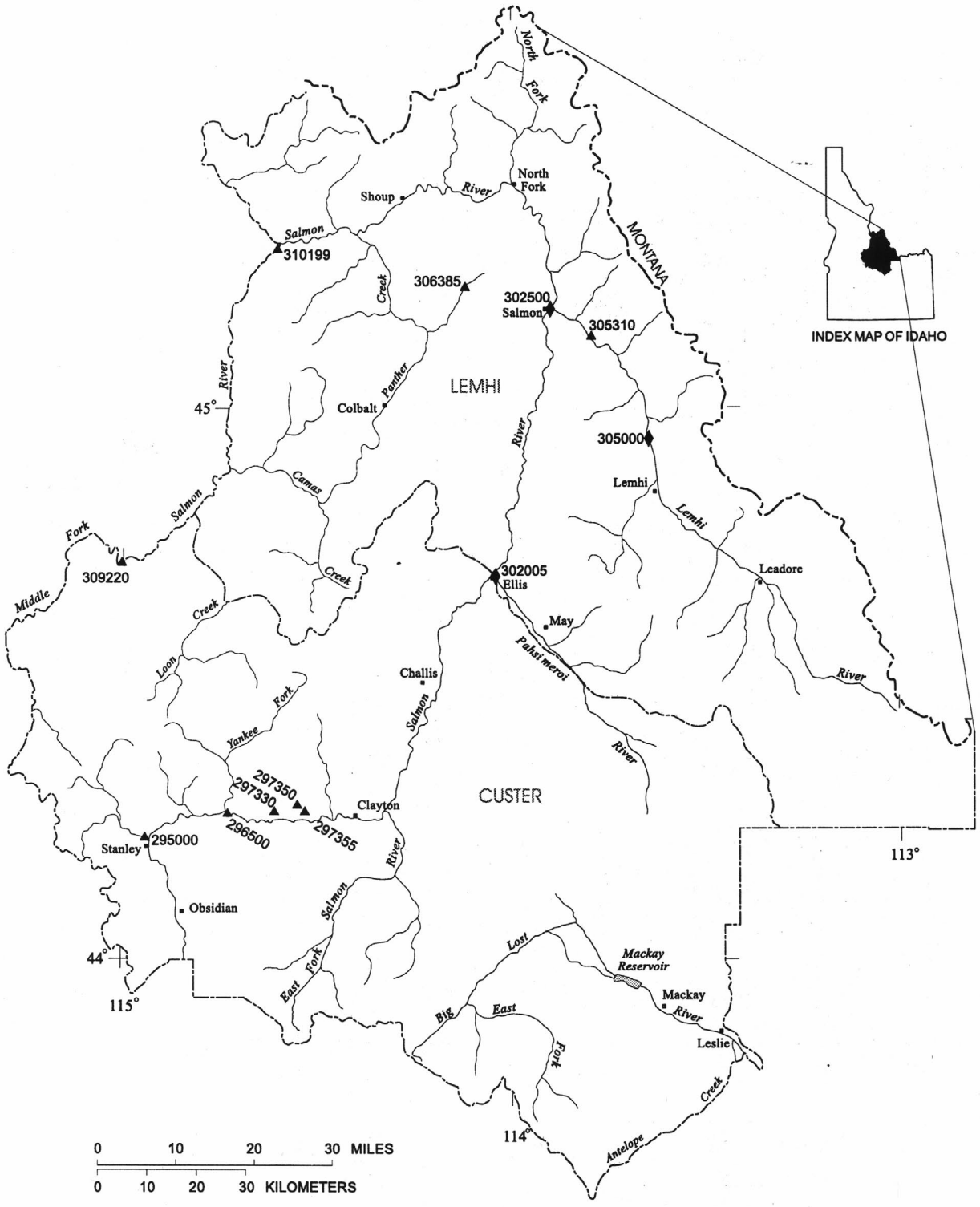


Figure 8. Locations of surface-water and water-quality stations in east-central Idaho.

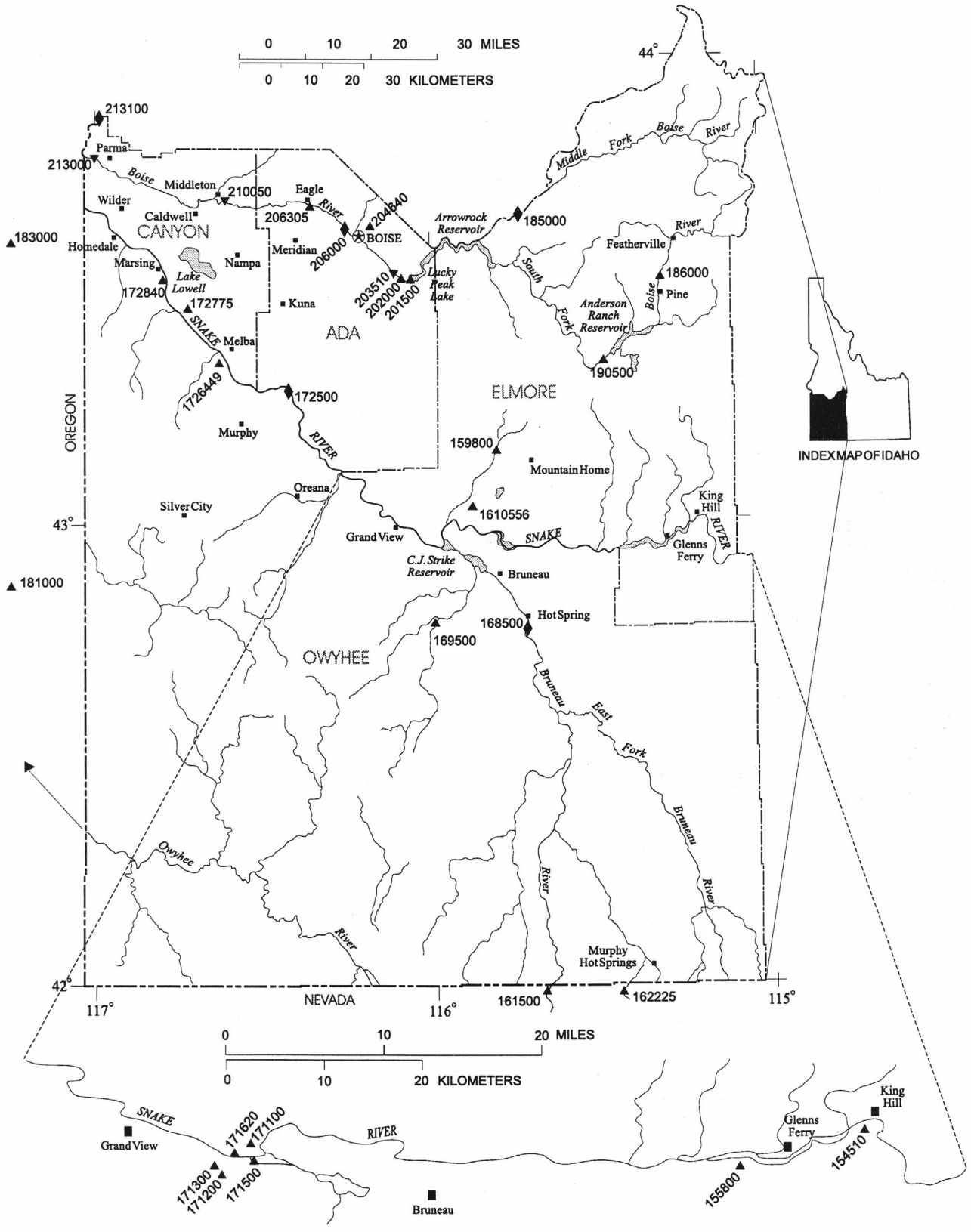


Figure 9. Locations of surface-water and water-quality stations in southwest Idaho.

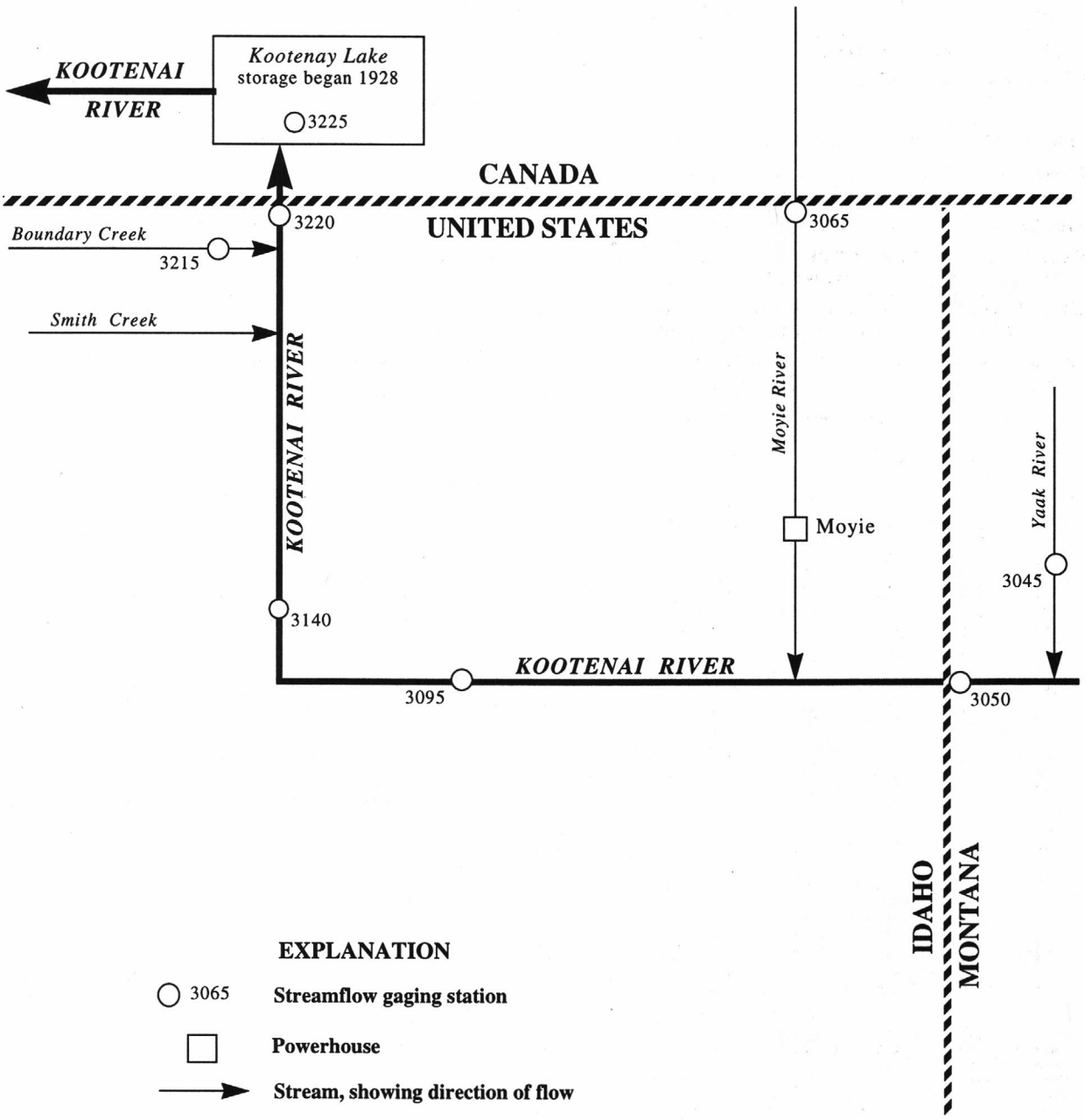


Figure 10. Schematic diagram showing gaging stations in Kootenai River basin

KOOTENAI RIVER BASIN

12304500 YAAK RIVER NEAR TROY, MT

LOCATION.--Lat 48°33'43", long 115°58'09", in NE¼SE¼SE¼ sec.5, T.32 N., R.34 W., Lincoln County, Montana, Hydrologic Unit 17010103, Kootenai National Forest, on right bank 500 ft upstream from bridge on U.S. Highway 2, 0.3 mi upstream from mouth, and 7.7 mi northwest of Troy.

DRAINAGE AREA.--766 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to September 1916 (fragmentary record), March 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,839.2 ft above sea level. Oct. 15, 1910 to Sept. 30, 1916, nonrecording gage at several sites within 11 mi of present site at various datums.

REMARKS.--Records good. Diversions for irrigation upstream from station. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s May 17, 1997, gage height, 9.58; maximum gage height, May 21, 1956, 9.70 ft in gage well, 10.8 ft from outside gage; minimum discharge, 47 ft^3/s Sept. 22, 2001, gage height, 2.66 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May to June 1948 reached a stage of 11.0 ft, from floodmarks; discharge, 12,500 ft^3/s. Flood in May 1954 reached a stage of 11.4 ft, from floodmarks; discharge, 13,400 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,460 ft^3/s May 25, gage height, 5.94; minimum, 47 ft^3/s Sept. 22, gage height, 2.66 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	114	114	e105	89	e82	172	1460	881	297	123	57
2	171	111	97	e105	86	e88	165	1180	949	274	123	56
3	146	109	100	e105	88	95	174	989	849	257	114	56
4	126	108	98	e105	87	94	158	928	783	242	108	55
5	116	149	96	e110	90	88	154	1090	727	227	104	53
6	111	147	95	e100	83	83	151	1120	680	214	100	51
7	109	130	94	e90	e80	87	152	1020	633	207	97	51
8	107	117	93	e100	e74	93	179	1050	586	199	92	52
9	106	111	93	e105	e78	105	193	1270	555	189	88	54
10	106	102	e90	e105	e84	105	195	1420	548	179	85	54
11	106	114	e87	e102	e85	102	192	1400	518	171	82	54
12	103	172	e85	e102	e84	104	184	1470	628	165	81	53
13	100	169	e88	e102	e83	109	175	1870	752	161	81	53
14	100	142	e90	e102	e76	121	169	2160	710	153	81	53
15	100	220	e95	e102	e84	118	166	2040	665	146	79	52
16	100	275	e90	e105	e80	113	169	1910	613	144	76	51
17	119	229	e95	103	e80	107	194	1660	544	151	74	50
18	130	184	e92	101	e82	105	258	1440	502	152	71	50
19	133	128	e92	99	e82	141	297	1320	478	149	68	49
20	126	118	e85	99	e80	176	322	1240	456	143	66	49
21	176	111	e90	89	e80	166	324	1150	422	137	66	49
22	179	102	e100	94	e84	161	324	1230	394	137	65	49
23	164	111	e105	93	e87	161	340	1650	369	135	65	49
24	141	102	e105	87	91	164	380	2040	349	132	68	50
25	129	95	e102	86	86	176	513	2190	348	140	70	49
26	123	98	e102	85	e82	221	809	1980	353	132	68	53
27	118	104	e102	86	e80	224	1070	1760	356	124	66	61
28	117	101	e100	87	e78	211	1710	1640	376	119	64	63
29	120	106	e105	e82	---	197	1860	1380	357	146	62	61
30	121	138	e110	e84	---	181	1490	1080	322	134	61	59
31	118	---	e110	e86	---	171	---	921	---	126	59	---
TOTAL	3903	4017	3000	3006	2323	4149	12639	45058	16703	5282	2507	1596
MEAN	126	134	96.8	97.0	83.0	134	421	1453	557	170	80.9	53.2
MAX	182	275	114	110	91	224	1860	2190	949	297	123	63
MIN	100	95	85	82	74	82	151	921	322	119	59	49
AC-FT	7740	7970	5950	5960	4610	8230	25070	89370	33130	10480	4970	3170
CFSM	.16	.17	.13	.13	.11	.17	.55	1.90	.73	.22	.11	.07
IN.	.19	.20	.15	.15	.11	.20	.61	2.19	.81	.26	.12	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2001, BY WATER YEAR (WY)

MEAN	203	326	328	292	357	601	1922	3521	1931	502	198	165
MAX	833	1192	1630	1552	1626	1872	3754	6463	4992	970	373	506
(WY)	1960	1996	1996	1974	1996	1972	1969	1997	1974	1969	1993	1959
MIN	84.0	93.2	96.8	94.6	83.0	134	421	1026	377	151	80.9	53.2
(WY)	1988	1980	2001	1988	2001	2001	2001	1977	1992	1977	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1957 - 2001	
ANNUAL TOTAL	263808		104183			
ANNUAL MEAN	721		285		864	
HIGHEST ANNUAL MEAN					1562	1974
LOWEST ANNUAL MEAN					278	1977
HIGHEST DAILY MEAN	4510	May 4	2190	May 25	11600	May 16 1997
LOWEST DAILY MEAN	85	Dec 12	a49	Sep 19	a49	Sep 19 2001
ANNUAL SEVEN-DAY MINIMUM	89	Dec 10	49	Sep 19	49	Sep 19 2001
ANNUAL RUNOFF (AC-FT)	523300		206600		625600	
ANNUAL RUNOFF (CFSM)	.94		.37		1.13	
ANNUAL RUNOFF (INCHES)	12.81		5.06		15.32	
10 PERCENT EXCEEDS	2460		897		2590	
50 PERCENT EXCEEDS	253		111		289	
90 PERCENT EXCEEDS	102		66		122	

e Estimated

KOOTENAI RIVER BASIN

12304500 YAAK RIVER NEAR TROY, MT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-73, 1975-85, May 1999 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Seasonal records 1963-73, 1975-85, April 2000 to current year.

INSTRUMENTATION.--Water temperature probe installed by U.S. Army Corps of Engineers.

REMARKS.--Prior to March 25, 1975, temperature records furnished by U.S. Army Corps of Engineers. Missing data for Apr. 2, 11, May 7, June 2-13, 22, 23, due equipment problems. Unpublished records of instantaneous water temperature are available in files of the District office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE (seasonal records): Maximum, 31.0°C, Aug. 11, 2001; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: During period of seasonal operation, maximum, 31.0°C, Aug. 11; minimum, 0.0°C on April 4.

WATER QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
APR 2001									
25...	1210	518	8.4	76	16.5	3.5	.21	.009	.001
JUN									
08...	1400	585	7.8	57	17.0	11.5	.13	<.005	<.001
JUL									
11...	1015	169	7.6	105	21.0	19.5	E.07	.005	<.001
SEP									
19...	0745	49	7.8	124	6.5	12.0	E.07	.008	.001

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR 2001					
25...	<.007	.018	86	13	18
JUN					
08...	<.007	.005	79	2	3.2
JUL					
11...	<.007	.004	75	2	.91
SEP					
19...	<.007	E.003	75	1	.13

DATE	TIME	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	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)
JUN 2001											
08...	1400	27	8.1	1.7	.50	.11	1.4	30	.2	<.2	8.5
SEP											
19...	0745	56	16	3.7	.95	.17	3.0	62	.7	<.2	9.2

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
JUN 2001											
08...	1.1	.054	62	40	<2	<.1	<1	1	<1	<1	1
SEP											
19...	1.9	.099	9.7	73	<2	.2	<1	2	2	<1	15

E Estimated

KOOTENAI RIVER BASIN

12304500 YAAK RIVER NEAR TROY, MT--Continued

WATER TEMPERATURE, DEGREES CELSIUS, APRIL 2001 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	5.0	3.0	4.0	4.5	.5	2.5
2	---	---	---	---	---	---	---	2.0	2.5	6.5	1.0	3.5
3	---	---	---	---	---	---	3.5	.5	1.5	10.5	1.0	5.0
4	---	---	---	---	---	---	4.5	.0	2.0	9.5	3.5	6.0
5	---	---	---	---	---	---	5.5	3.0	4.5	9.0	6.0	8.0
6	---	---	---	---	---	---	7.0	1.0	3.5	11.0	2.0	6.5
7	---	---	---	---	---	---	5.0	3.5	4.5	10.0	---	---
8	---	---	---	---	---	---	3.5	1.5	2.5	8.5	3.5	6.0
9	---	---	---	---	---	---	3.0	1.0	2.0	10.0	4.0	7.0
10	---	---	---	---	---	---	4.5	1.5	3.0	9.0	3.0	6.5
11	---	---	---	---	---	---	5.5	---	3.0	11.0	4.5	7.5
12	---	---	---	---	---	---	4.0	1.5	2.5	12.0	7.0	9.0
13	---	---	---	---	---	---	4.5	3.0	3.5	12.0	4.0	8.0
14	---	---	---	---	---	---	5.0	3.0	4.0	10.0	5.0	6.5
15	---	---	---	---	---	---	7.5	2.5	4.5	8.5	4.5	6.5
16	---	---	---	---	---	---	9.0	3.5	5.5	7.5	4.0	5.5
17	---	---	---	---	---	---	10.0	5.5	7.5	8.0	3.5	6.0
18	---	---	---	---	---	---	9.0	4.5	6.5	7.5	4.5	6.0
19	---	---	---	---	---	---	7.0	4.0	5.5	9.0	4.0	6.0
20	---	---	---	---	---	---	5.5	3.5	4.5	10.0	3.5	6.5
21	---	---	---	---	---	---	6.0	2.5	4.5	11.5	3.5	7.5
22	---	---	---	---	---	---	6.0	3.5	5.0	14.0	6.0	9.5
23	---	---	---	---	---	---	5.0	3.0	4.0	13.5	7.0	10.5
24	---	---	---	---	---	---	6.5	3.5	5.0	16.5	8.5	12.0
25	---	---	---	---	---	---	8.0	3.0	6.0	13.5	8.5	11.0
26	---	---	---	---	---	---	8.5	2.5	5.5	13.5	8.0	11.0
27	---	---	---	---	---	---	12.0	5.0	8.0	15.5	9.0	11.5
28	---	---	---	---	---	---	9.5	3.5	5.0	14.5	10.5	12.0
29	---	---	---	---	---	---	5.0	2.0	3.5	10.5	7.5	9.0
30	---	---	---	---	---	---	4.5	2.0	3.0	11.5	5.0	7.5
31	---	---	---	---	---	---	---	---	---	15.0	8.0	11.0
MONTH	---	---	---	---	---	---	---	---	4.2	16.5	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.0	9.0	14.0	24.0	19.5	21.5	23.5	17.5	20.5	21.5	16.0	18.5
2	---	---	---	23.5	17.5	20.5	28.5	19.5	22.5	20.5	15.0	17.5
3	---	---	---	25.5	18.0	21.5	27.5	19.5	23.0	21.5	16.0	18.5
4	---	---	---	26.0	20.0	23.0	23.5	20.0	21.0	22.5	13.0	17.5
5	---	---	---	25.0	21.0	23.5	26.0	17.0	21.0	20.5	14.5	17.5
6	---	---	---	21.5	18.0	19.5	29.0	18.0	22.5	18.5	12.5	15.5
7	---	---	---	24.0	15.0	19.0	30.0	20.0	24.5	17.5	13.0	15.0
8	---	---	---	26.0	17.0	21.5	30.0	20.0	24.0	17.5	9.5	13.0
9	---	---	---	26.0	18.0	22.0	28.5	20.5	24.0	18.5	8.5	13.5
10	---	---	---	26.5	19.5	22.5	30.5	20.0	24.0	19.0	10.5	14.5
11	---	---	---	23.5	18.5	21.0	31.0	19.5	24.5	18.5	10.0	14.0
12	---	---	---	23.5	17.5	20.0	29.5	20.5	24.5	20.5	11.0	15.5
13	12.0	---	---	27.0	19.0	22.5	29.5	21.5	25.0	21.5	13.5	17.0
14	12.0	9.0	10.0	26.5	19.0	22.5	27.5	20.5	24.0	20.5	12.5	16.5
15	13.0	8.0	10.5	24.0	18.0	21.0	27.5	19.0	22.5	20.0	12.5	16.0
16	16.0	5.5	11.0	21.5	17.0	19.0	27.5	17.5	21.5	19.0	12.0	15.5
17	14.5	9.5	12.0	19.0	14.0	16.5	27.5	17.0	21.5	19.5	13.0	16.0
18	15.0	10.5	13.0	19.5	14.5	16.5	26.0	18.0	22.0	18.5	12.5	15.5
19	18.0	9.5	14.0	20.0	14.0	17.0	23.5	17.0	19.5	17.0	10.5	14.0
20	19.5	12.0	16.0	21.5	15.0	17.5	22.5	13.5	17.5	15.5	9.5	12.5
21	22.0	14.5	18.5	21.5	16.5	18.5	21.0	12.5	16.5	14.0	9.5	11.5
22	---	---	---	21.5	16.5	19.0	23.0	14.0	18.0	17.0	9.5	12.5
23	20.5	---	---	25.0	16.0	20.0	21.5	16.5	18.5	16.5	9.0	12.5
24	20.0	16.0	17.0	26.0	19.5	22.0	22.5	14.0	17.5	17.5	10.5	14.0
25	17.5	13.5	15.5	26.5	17.5	21.5	23.0	13.0	18.0	17.5	11.0	14.0
26	17.5	13.5	15.5	27.0	17.5	21.0	24.0	13.5	18.0	17.0	13.0	14.5
27	15.5	12.5	14.5	28.0	17.0	21.5	24.5	15.0	19.5	17.0	12.5	14.5
28	16.0	12.0	14.0	22.0	16.5	19.5	22.5	17.0	19.5	15.5	12.5	14.0
29	20.0	12.5	16.0	21.0	15.5	17.0	24.5	15.5	20.0	14.5	8.0	11.0
30	21.0	15.5	18.0	22.0	14.0	17.5	24.5	16.0	19.5	13.5	6.0	9.5
31	---	---	---	27.0	17.0	21.0	24.5	15.5	20.0	---	---	---
MONTH	---	---	---	28.0	14.0	20.2	31.0	12.5	21.1	22.5	6.0	14.7

KOOTENAI RIVER BASIN

12305000 KOOTENAI RIVER AT LEONIA, ID

LOCATION.--Lat 48°37'04", long 116°02'47", in NW¼NW¼NW¼ sec.20, T.33 N., R.34 W., principal Meridian, Lincoln County, Mont., Hydrologic Unit 17010104, on right bank at Leonia, 450 ft east of Montana-Idaho State line, 0.5 mi upstream from Boulder Creek, and at mile 171.6.

DRAINAGE AREA.--11,740 mi^2, approximately.

PERIOD OF RECORD.--March 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,790.25 ft above sea level. Prior to Oct. 1, 1970, at datum 90 ft lower. Prior to Nov. 13, 1928, nonrecording gage on bridge 250 ft upstream at datum 90.41 ft lower.

REMARKS.--No estimated daily discharges. Records good except for daily discharges above 16,000 ft^3/s, which are fair. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 14,600 acres. Flow regulated by Libby Dam and power plant since Mar. 21, 1972.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1929-71), 123,000 ft^3/s May 28, 1948, gage height, 33.40 ft; minimum, 996 ft^3/s Dec. 9, 1936, minimum gage height, 7.56 ft, Dec. 10, 1929. Maximum discharge since regulation (1972-2001), 62,000 ft^3/s Jan. 16, 1974, gage height, 24.15 ft; maximum gage height, 25.06 ft, Feb. 9, 1996; minimum daily, 2,270 ft Dec. 9, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of June 1894 and 1916 reached stages of 34.6 and 31.6 ft, respectively, present datum, from information by Great Northern Railway.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 21,300 ft^3/s Dec. 11; minimum daily, 4,290 ft^3/s Mar. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7250	7090	8450	4880	10500	6280	5300	8830	7190	5020	6930	6790
2	7130	7090	7450	4610	10500	6390	5240	8040	7450	5320	6970	6770
3	6990	6960	6820	4650	10500	6360	5340	7440	7140	6930	6860	6760
4	6880	6900	7190	4680	10600	6350	5060	7220	6940	6990	6950	6760
5	6870	7030	8820	4710	10600	6360	4680	7520	6730	6980	6860	6770
6	6910	6990	8860	4730	10500	5580	4650	7620	6480	6910	6830	6760
7	6880	6940	8880	4700	10400	4880	4630	7380	6340	6900	6850	6750
8	6870	8880	8870	4630	12100	4430	4790	7450	6150	6860	6870	6420
9	6870	12000	9730	4670	15100	4290	4770	8140	6070	6840	6840	6790
10	6870	12500	14000	4720	15300	4300	4760	8590	6100	6850	6830	6800
11	6870	12500	21300	4760	15400	4310	4750	8600	5870	6880	6890	6840
12	6840	12600	20200	4700	15500	4320	4700	8790	6090	6830	6910	6810
13	6850	12600	17300	4700	15600	4360	4680	9920	6310	6810	6910	6790
14	6850	12600	13400	4700	15400	4420	4650	11100	6210	6780	6950	6830
15	6850	12600	10700	4690	15400	4430	4630	10800	6180	6750	6900	6790
16	6860	12700	8470	4670	15400	4420	4640	10300	5970	6770	6860	6780
17	6930	12700	7460	4630	15400	4400	4680	9420	5780	6810	6700	6840
18	6920	11500	7420	4600	15400	4390	4850	8700	5670	6760	6850	6970
19	6930	10700	8760	4650	15400	4490	4990	8280	5570	7160	6830	6780
20	6930	11200	8700	4650	15000	4700	5070	8100	5540	10300	6780	6830
21	7110	12700	8580	4640	9730	4710	5080	7890	5470	8970	6700	6720
22	7110	11500	8140	4660	8270	4660	5100	8040	5370	7970	6800	6740
23	7050	9720	7310	8800	6750	4660	5160	9180	5300	7030	6830	6720
24	7020	8420	6800	10400	6370	4670	5260	10300	5240	6970	6830	6800
25	7000	7450	6740	10500	6370	4730	5620	11000	5200	6940	6830	6870
26	6980	6830	6740	10500	6310	4890	6630	10500	5130	6920	6820	6880
27	6960	7270	6750	10500	6280	5060	7740	9870	5080	6890	6820	6760
28	6930	8820	6720	10500	6290	5340	9960	9550	5200	6890	6790	6840
29	6950	8840	6480	10600	---	5310	10800	8850	5130	6990	6720	6820
30	6940	8850	5890	10500	---	5300	9440	7840	5080	7020	6790	6830
31	6950	---	5390	10500	---	5260	---	7300	---	6950	6780	---
TOTAL	215350	294480	288320	195830	326370	154050	167650	272560	177980	216990	212080	203610
MEAN	6947	9816	9301	6317	11660	4969	5588	8792	5933	7000	6841	6787
MAX	7250	12700	21300	10600	15600	6390	10800	11100	7450	10300	6970	6970
MIN	6840	6830	5390	4600	6280	4290	4630	7220	5080	5020	6700	6420
AC-FT	427100	584100	571900	388400	647400	305600	332500	540600	353000	430400	420700	403900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1971, BY WATER YEAR (WY) (UNREGULATED)

MEAN	6528	5705	4768	4049	4364	4898	14540	38860	45570	23050	10010	7045
MAX	15540	11280	13700	11330	10630	10390	39940	61770	74280	47510	16910	16560
(WY)	1948	1934	1934	1934	1951	1934	1934	1956	1967	1954	1954	1959
MIN	3532	2748	2477	1922	1994	2693	4334	18630	20630	9819	6142	4744
(WY)	1937	1937	1945	1937	1936	1944	1945	1944	1941	1944	1941	1936

SUMMARY STATISTICS	[a] WATER YEARS 1929 - 1971	
ANNUAL MEAN	14150	
HIGHEST ANNUAL MEAN	19240	1956
LOWEST ANNUAL MEAN	7416	1944
HIGHEST DAILY MEAN	122000	May 28 1948
LOWEST DAILY MEAN	1070	Dec 8 1936
ANNUAL SEVEN-DAY MINIMUM	1310	Jan 2 1937
ANNUAL RUNOFF (AC-FT)	10250000	
10 PERCENT EXCEEDS	37800	
50 PERCENT EXCEEDS	6750	
90 PERCENT EXCEEDS	3240	

KOOTENAI RIVER BASIN

12305000 KOOTENAI RIVER AT LEONIA, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2001, BY WATER YEAR (WY) (REGULATED, UNADJUSTED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	14950	16960	16330	15620	12970	8982	11050	15470	16680	12420	11140	11320
MAX	31980	26400	28140	28610	24790	15160	25570	31670	39200	29600	20310	20960
(WY)	1973	1992	1991	1976	1990	1990	1996	1997	1972	1981	1976	1972
MIN	5635	5004	3423	3109	3724	4350	5588	8352	5374	4139	3956	5539
(WY)	1972	1972	1972	1972	1973	1973	2001	1977	1977	1988	1975	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		[b] WATER YEARS 1972 - 2001	
ANNUAL TOTAL	4605210		2725270			
ANNUAL MEAN	12580		7466		13660	
HIGHEST ANNUAL MEAN					20400	1996
LOWEST ANNUAL MEAN					7466	2001
HIGHEST DAILY MEAN	32900	Jun 13	21300	Dec 11	56200	Jan 16 1974
LOWEST DAILY MEAN	5390	Dec 31	4290	Mar 9	2270	Dec 9 1972
ANNUAL SEVEN-DAY MINIMUM	6220	Mar 16	4350	Mar 8	2420	Dec 7 1972
ANNUAL RUNOFF (AC-FT)	9134000		5406000		9895000	
10 PERCENT EXCEEDS	25300		10700		24300	
50 PERCENT EXCEEDS	9700		6860		12000	
90 PERCENT EXCEEDS	6880		4700		5000	

a Unregulated
b Regulated, unadjusted.

KOOTENAI RIVER BASIN

12306500 MOYIE RIVER AT EASTPORT, ID
(International gaging station)

LOCATION.--Lat 48°59'58", long 116°10'43", in NW¼NE¼SE¼ sec.10, T.65 N., R.2 E., Boundary County, Hydrologic Unit 17010105, Idaho Panhandle National Forests, on left bank at Eastport, 1,000 ft downstream from international boundary, and at mile 25.0.

DRAINAGE AREA.--570 mi^2, approximately.

PERIOD OF RECORD.--January to December 1915, March to December 1916, August 1929 to current year in reports of Geological Survey. Monthly discharge only for some periods, published in WSP 1736.

GAGE.--Water-stage recorder. Datum of gage is 2,620.06 ft above sea level. January 1915 to December 1916 nonrecording gage at site 0.2 mi upstream at different datum.

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

COOPERATION.--This station is one of the international gaging stations maintained by the United States under agreement with Canada.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 10,600 ft^3/s June 19, 1916; maximum gage height, 10.55 ft, May 20, 1954; minimum discharge, 23 ft^3/s Nov. 7, 1936, gage height, 3.20 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 24	2345	*2,540	*6.50	No peaks greater than base discharge.			

Minimum daily, 26 ft^3/s Sept. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	63	e55	56	52	e48	88	750	1210	356	94	38
2	72	62	54	55	52	e50	88	669	1220	324	91	37
3	61	60	54	54	52	e50	93	624	1080	303	85	35
4	58	62	53	54	52	e50	88	635	1020	286	84	35
5	56	78	52	58	52	e50	90	785	956	266	81	33
6	56	79	52	e60	e50	54	90	781	869	245	78	33
7	55	71	52	e48	e46	e55	91	772	811	234	76	34
8	55	65	51	e46	e44	e55	102	855	738	218	72	35
9	54	69	51	e48	e46	62	109	1050	697	205	69	34
10	52	e60	e46	e50	e48	61	121	1130	684	194	68	33
11	52	e50	e40	56	e50	60	119	1160	623	183	67	32
12	50	e50	e38	54	e50	62	114	1300	768	171	63	32
13	50	e60	e38	54	e50	67	113	1760	856	166	61	32
14	51	e65	e40	54	e50	72	110	2000	834	159	61	30
15	53	e60	e44	e50	e50	67	107	1980	833	149	60	30
16	52	e60	e46	e48	e50	67	108	2050	755	143	58	29
17	58	e60	e46	e50	e50	64	118	1870	690	144	57	29
18	65	58	e46	e50	e50	64	131	1700	636	142	54	28
19	61	56	e46	e50	e50	81	140	1590	616	132	52	28
20	64	e55	e46	e50	e50	89	147	1510	570	125	50	28
21	71	e50	e46	e48	e50	86	146	1420	526	123	48	29
22	86	e50	e46	e50	e55	83	147	1510	487	125	47	28
23	70	e50	e46	e50	53	83	153	1900	447	120	48	28
24	65	e50	e48	e46	52	82	162	2240	414	117	50	27
25	65	e50	e50	e48	52	87	199	2340	452	114	48	26
26	64	53	e55	e48	e48	98	300	2210	430	108	45	29
27	63	56	e55	e50	e46	101	434	2080	430	105	43	32
28	63	e55	e55	e50	e46	96	994	2000	439	103	42	31
29	67	e55	e55	e48	---	93	978	1730	402	103	40	29
30	67	e55	e55	e48	---	88	786	1480	379	99	40	28
31	64	---	e55	e48	---	86	---	1300	---	95	39	---
TOTAL	1907	1767	1516	1579	1396	2211	6466	45181	20872	5357	1871	932
MEAN	61.5	58.9	48.9	50.9	49.9	71.3	216	1457	696	173	60.4	31.1
MAX	87	79	55	60	55	101	994	2340	1220	356	94	38
MIN	50	50	38	46	44	48	88	624	379	95	39	26
AC-FT	3780	3500	3010	3130	2770	4390	12830	89620	41400	10630	3710	1850
CFSM	.11	.10	.09	.09	.09	.13	.38	2.56	1.22	.30	.11	.05
IN.	.12	.12	.10	.10	.09	.14	.42	2.95	1.36	.35	.12	.06

KOOTENAI RIVER BASIN

12306500 MOYIE RIVER AT EASTPORT, ID--Continued
(International gaging station)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

MEAN	143	226	215	164	180	292	1301	3106	1940	471	136	98.1
MAX	907	797	1062	647	926	871	3303	5130	4862	1204	374	382
(WY)	1948	2000	1942	1934	1951	1972	1934	1956	1974	1954	1993	1959
MIN	38.6	42.2	48.9	41.9	49.9	69.4	216	1174	429	127	58.1	31.1
(WY)	1988	1937	2001	1937	2001	1944	2001	1944	1992	1940	1936	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1929 - 2001	
ANNUAL TOTAL	210932		91055			
ANNUAL MEAN	576		249		691	
HIGHEST ANNUAL MEAN					1157	1974
LOWEST ANNUAL MEAN					244	1944
HIGHEST DAILY MEAN	3710	May 4	2340	May 25	8930	May 20 1954
LOWEST DAILY MEAN	38	Dec 12	26	Sep 25	26	Sep 25 2001
ANNUAL SEVEN-DAY MINIMUM	42	Dec 10	28	Sep 19	28	Sep 19 2001
ANNUAL RUNOFF (AC-FT)	418400		180600		500600	
ANNUAL RUNOFF (CFSM)	1.01		.44		1.21	
ANNUAL RUNOFF (INCHES)	13.77		5.94		16.47	
10 PERCENT EXCEEDS	2000		796		2260	
50 PERCENT EXCEEDS	175		61		180	
90 PERCENT EXCEEDS	52		40		67	

e Estimated

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.53	3.42	3.39	3.38	3.35	3.34	3.51	4.81	5.33	4.24	3.56	3.27
2	3.42	3.41	3.37	3.38	3.35	3.35	3.51	4.71	5.34	4.18	3.54	3.26
3	3.38	3.40	3.37	3.37	3.35	3.33	3.53	4.66	5.19	4.13	3.52	3.25
4	3.37	3.43	3.36	3.37	3.35	3.50	3.51	4.67	5.12	4.10	3.51	3.24
5	3.36	3.51	3.36	3.39	3.35	3.35	3.52	4.86	5.05	4.05	3.50	3.23
6	3.36	3.48	3.36	3.43	3.51	3.34	3.52	4.85	4.96	4.01	3.49	3.23
7	3.36	3.44	3.36	4.11	3.69	3.36	3.52	4.84	4.89	3.98	3.47	3.24
8	3.36	3.44	3.35	4.12	3.54	3.41	3.58	4.94	4.80	3.94	3.45	3.24
9	3.35	3.44	3.35	3.75	3.53	3.38	3.60	5.16	4.75	3.91	3.44	3.24
10	3.35	3.58	3.35	3.40	3.55	3.38	3.65	5.25	4.73	3.88	3.44	3.23
11	3.35	3.56	3.47	3.38	3.56	3.37	3.64	5.28	4.65	3.85	3.43	3.22
12	3.34	3.57	3.58	3.37	3.58	3.38	3.62	5.42	4.83	3.82	3.41	3.22
13	3.34	3.50	3.61	3.37	3.57	3.41	3.62	5.83	4.94	3.80	3.40	3.22
14	3.35	3.42	3.62	3.37	3.62	3.43	3.61	6.05	4.92	3.78	3.40	3.21
15	3.35	3.49	3.67	3.77	3.62	3.41	3.60	6.03	4.91	3.75	3.40	3.21
16	3.36	3.51	3.70	3.89	3.60	3.41	3.60	6.09	4.82	3.73	3.39	3.20
17	3.40	3.43	3.77	3.82	3.66	3.40	3.63	5.93	4.74	3.73	3.37	3.20
18	3.42	3.39	3.81	3.58	3.70	3.40	3.69	5.79	4.67	3.73	3.36	3.20
19	3.41	3.38	3.83	3.37	3.71	3.48	3.71	5.69	4.64	3.70	3.35	3.19
20	3.42	3.38	3.83	3.36	3.67	3.52	3.73	5.61	4.58	3.68	3.34	3.20
21	3.50	3.70	3.84	3.54	3.60	3.50	3.73	5.53	4.52	3.67	3.33	3.20
22	3.50	3.79	3.86	3.37	3.36	3.49	3.73	5.61	4.46	3.68	3.32	3.19
23	3.44	3.73	3.87	3.40	3.35	3.48	3.75	5.96	4.40	3.66	3.33	3.19
24	3.43	3.49	3.88	3.75	3.34	3.48	3.78	6.25	4.34	3.65	3.34	3.18
25	3.43	3.36	3.88	3.53	3.34	3.51	3.89	6.33	4.40	3.64	3.33	3.18
26	3.42	3.37	3.88	3.46	3.52	3.55	4.13	6.23	4.37	3.62	3.31	3.20
27	3.42	3.39	3.94	3.46	3.54	3.57	4.37	6.11	4.37	3.60	3.30	3.22
28	3.43	3.45	3.91	3.42	3.35	3.55	5.09	6.05	4.38	3.59	3.29	3.21
29	3.44	3.71	3.73	3.41	---	3.53	5.08	5.81	4.32	3.59	3.28	3.20
30	3.43	3.44	3.51	3.41	---	3.51	4.86	5.58	4.28	3.57	3.28	3.19
31	3.42	---	3.40	3.42	---	3.50	---	5.42	---	3.56	3.27	---
MEAN	3.40	3.49	3.62	3.52	3.51	3.44	3.81	5.53	4.72	3.80	3.39	3.22
MAX	3.53	3.79	3.94	4.12	3.71	3.57	5.09	6.33	5.34	4.24	3.56	3.27
MIN	3.34	3.36	3.35	3.36	3.34	3.33	3.51	4.66	4.28	3.56	3.27	3.18

WTR YR 2001 MEAN 3.79 MAX 6.33 MIN 3.18

KOOTENAI RIVER BASIN

12309500 KOOTENAI RIVER AT BONNERS FERRY, ID

LOCATION.--Lat 48°42'00", long 116°18'45", in NW¼SE¼NE¼ sec.27, T.62 N., R.1 E., Boundary County, Hydrologic Unit 17010104, on left bank 90 ft downstream from new highway bridge at Bonners Ferry, and at mile 152.8.

DRAINAGE AREA.--12,690 mi^2, approximately.

PERIOD OF RECORD.--May to October 1904, October 1927 to current year (elevations only prior to March 1928 and October 1960 to current year). Gage heights collected in this vicinity since 1904 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 1716: Maximum elevation. WDR ID-78-2: 1975(m), 1976(M).

GAGE.--Water-stage recorder. Datum of gage is 1,700.00 ft with respect to U.S. Geological Survey benchmark V-3-1929 at elevation 1,777.08 ft. Gage heights have been reduced to that datum. Sea level is 0.02 ft higher. May 1 to Oct. 15, 1904, nonrecording gage on railroad bridge 0.8 mi downstream at different datum. Oct. 1, 1927, to Nov. 30, 1929, nonrecording gage near left bank. Dec. 1, 1929, to June 12, 1933, nonrecording gages on old highway bridge 40 ft downstream. Nonrecording gage near right bank on downstream side of highway bridge at Bonners Ferry June 13, 1933, to Sept. 30, 1960. May 8, 1942, to present, recording gage on left bank downstream from highway bridge at present datum. Datum of gages Oct. 1, 1927, to Jan. 2, 1931, was about 0.23 ft lower.

REMARKS.--Elevations affected by backwater from Kootenay Lake. No drainage district dike failed during year. Flow regulated by Libby Dam since Mar. 21, 1972 (see sta 12305000). Add 1,700 ft to gage heights to obtain elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,780.13 ft, May 29, 1961; minimum, 1,741.14 ft, Dec. 5, 1929, Dec. 29, 1930, datum then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of 1,777.2 ft, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,752.19 ft, Dec. 11; minimum daily elevation recorded, 1,744.71 ft, Apr. 10, but may have been lower during periods of missing record.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47.21	46.77	46.66	---	---	45.35	---	46.18	47.54	45.64	45.84	45.85
2	47.18	46.79	46.27	---	---	45.36	---	45.94	47.53	45.69	45.83	45.98
3	47.13	46.77	46.04	---	---	45.34	---	45.73	47.55	46.20	45.79	46.01
4	47.06	46.73	46.07	---	---	45.33	44.98	45.63	47.41	46.23	45.80	46.10
5	46.97	46.85	46.64	---	---	45.33	44.74	45.73	47.22	46.20	45.78	46.12
6	46.90	46.91	46.70	---	---	45.16	---	45.79	46.97	46.20	45.77	46.12
7	46.86	46.84	46.74	---	---	44.95	---	45.72	46.87	46.14	45.77	46.15
8	46.86	47.28	46.74	---	---	---	---	45.74	46.70	46.10	45.85	45.92
9	46.88	48.28	46.93	---	---	---	44.79	45.97	46.55	46.07	45.81	45.97
10	46.92	48.68	48.07	---	---	---	44.71	46.17	46.54	46.04	45.79	45.92
11	46.93	48.64	50.50	---	---	---	---	46.22	46.43	46.03	45.80	45.94
12	46.93	48.67	51.21	---	---	---	---	46.32	46.51	46.03	45.80	45.94
13	46.91	48.72	50.54	---	---	---	---	46.85	46.61	46.07	45.82	45.96
14	46.89	48.72	49.14	---	---	---	---	47.70	46.49	46.08	45.82	46.00
15	46.89	48.66	48.12	---	48.35	---	---	47.82	46.42	46.01	45.80	46.03
16	46.89	48.67	47.18	---	48.40	---	---	47.76	46.22	46.00	45.78	46.05
17	46.96	48.65	46.76	---	48.46	---	44.82	47.39	46.09	46.01	45.73	46.09
18	46.91	48.36	46.51	---	48.46	---	44.85	46.97	45.90	45.97	45.72	46.21
19	46.98	47.84	47.01	---	48.51	---	44.89	46.71	45.78	45.97	45.71	46.20
20	46.98	47.88	46.98	---	48.54	---	44.91	46.66	45.69	46.97	45.70	46.30
21	47.16	48.45	46.90	---	46.85	---	44.91	46.50	45.62	46.66	45.68	46.31
22	47.19	48.25	46.74	---	46.06	---	44.90	46.53	45.58	46.30	45.73	46.34
23	47.15	47.55	46.35	---	45.62	---	44.91	47.10	45.54	45.98	45.76	46.37
24	47.11	47.03	46.07	---	45.41	---	44.94	47.98	45.51	45.95	45.80	46.43
25	47.08	46.74	45.96	---	45.42	---	45.04	48.77	45.49	45.96	45.84	46.52
26	47.02	46.44	45.88	---	45.39	---	45.30	48.75	45.50	45.92	45.86	46.49
27	46.92	46.48	45.80	---	45.37	---	45.60	48.49	45.47	45.86	45.87	46.59
28	46.84	46.93	45.75	---	45.36	---	46.30	48.46	45.50	45.80	45.85	46.70
29	46.83	46.89	45.64	---	---	---	46.84	48.44	45.60	45.86	45.86	46.74
30	46.80	46.78	45.43	---	---	---	46.42	48.07	45.63	45.88	45.86	46.79
31	46.72	---	45.28	---	---	---	---	47.72	---	45.85	45.85	---
MEAN	46.97	47.61	46.99	---	---	---	---	46.96	46.28	46.05	45.80	46.20
MAX	47.21	48.72	51.21	---	---	---	---	48.77	47.55	46.97	45.87	46.79
MIN	46.72	46.44	45.28	---	---	---	---	45.63	45.47	45.64	45.68	45.85

KOOTENAI RIVER BASIN

12314000 KOOTENAI RIVER AT KLOCKMANN RANCH, NEAR BONNERS FERRY, ID

LOCATION.--Lat 48°47'38", long 116°22'51", in SE¼NW¼SE¼ sec.19, T.63 N., R.1 E., Boundary County, Hydrologic Unit 17010104, on right bank 0.3 mi downstream from dike of drainage district No. 5, 8 mi north of Bonners Ferry, and at mile 139.7.

DRAINAGE AREA.--13,300 mi^2, approximately.

PERIOD OF RECORD.--May to July, September to November 1928, April to September, December 1929, April 1930 to current year (elevations only, fragmentary prior to April 1930).

GAGE.--Water-stage recorder. Datum of gage is 1,700.00 ft above Topographic Division datum of 1928. Gage readings have been reduced to that datum. Sea level is about 0.03 ft higher. Prior to Sept. 12, 1928, several nonrecording gages within 300 ft at different datums.

REMARKS.--Elevations affected by backwater from Kootenay Lake. No drainage district dike failed during year. Flow regulated by Libby Dam since Mar. 21, 1972. Add 1,700 ft to gage heights to obtain elevations.

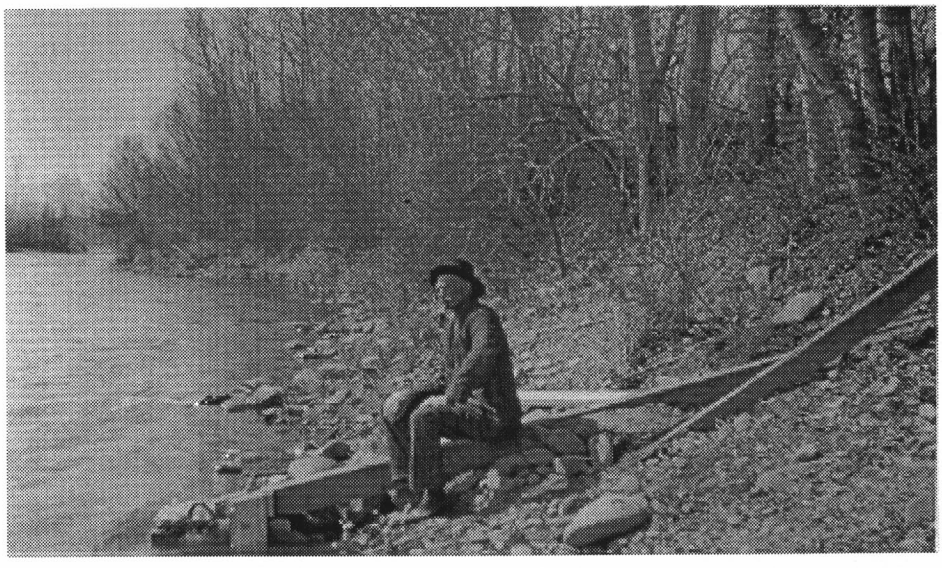
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,776.41 ft, June 7, 1961; minimum, 1,738.76 ft, Apr. 1, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,749.55 ft, Dec. 12; minimum, 1,739.68 ft, Apr. 6.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46.49	46.05	45.50	43.85	44.02	43.29	40.14	43.03	46.77	44.80	44.63	44.69
2	46.48	46.08	45.23	43.67	44.02	43.24	40.17	42.73	46.76	44.87	44.59	44.91
3	46.44	46.07	45.09	43.56	44.04	43.20	40.10	42.40	46.81	45.18	44.55	44.99
4	46.38	46.06	45.09	43.44	44.06	43.15	40.00	42.21	46.72	45.21	44.53	45.12
5	46.28	46.16	45.41	43.32	44.05	43.09	39.77	42.35	46.54	45.20	44.51	45.17
6	46.19	46.23	45.48	43.25	44.04	42.95	39.72	42.53	46.28	45.20	44.51	45.16
7	46.16	46.16	45.54	43.18	43.92	42.72	39.80	42.41	46.16	45.10	44.51	45.20
8	46.16	46.37	45.54	43.08	43.91	42.52	39.84	42.43	45.99	45.04	44.65	44.92
9	46.18	46.94	45.61	43.04	45.12	42.40	39.87	42.80	45.83	44.99	44.56	44.86
10	46.24	47.27	46.29	43.00	45.38	42.27	39.95	43.14	45.81	44.93	44.55	44.77
11	46.25	47.23	48.08	43.00	45.48	42.13	40.01	43.27	45.72	44.91	44.55	44.78
12	46.26	47.25	48.95	42.92	45.54	41.97	39.93	43.47	45.76	44.92	44.53	44.79
13	46.24	47.28	48.56	42.86	45.64	41.81	39.88	44.19	45.79	45.01	44.56	44.85
14	46.22	47.29	47.51	42.81	45.68	41.78	39.96	45.28	45.66	45.04	44.56	44.91
15	46.22	47.23	46.80	42.77	45.72	41.63	39.98	45.60	45.52	44.93	44.53	44.98
16	46.22	47.21	46.16	42.67	45.80	41.47	39.98	45.67	45.29	44.90	44.50	45.04
17	46.27	47.18	45.90	42.57	45.89	41.28	39.94	45.43	45.13	44.91	44.44	45.10
18	46.26	46.97	45.69	42.50	45.94	41.15	40.05	45.06	44.86	44.85	44.36	45.25
19	46.32	46.55	45.94	42.44	46.02	41.13	40.16	44.82	44.66	44.82	44.34	45.29
20	46.32	46.54	45.91	42.37	46.09	41.00	40.21	44.81	44.49	45.44	44.32	45.42
21	46.49	46.87	45.82	42.30	45.01	40.91	40.17	44.63	44.37	45.34	44.32	45.47
22	46.53	46.81	45.69	42.30	44.23	40.77	40.16	44.64	44.38	45.07	44.41	45.51
23	46.49	46.34	45.40	42.89	43.82	40.65	40.10	45.20	44.37	44.83	44.44	45.56
24	46.45	46.04	45.16	43.60	43.56	40.52	40.14	46.17	44.34	44.84	44.54	45.63
25	46.42	45.89	45.00	43.75	43.63	40.43	40.26	47.09	44.30	44.86	44.61	45.74
26	46.36	45.70	44.85	43.81	43.52	40.40	40.66	47.21	44.31	44.79	44.66	45.72
27	46.26	45.68	44.71	43.84	43.44	40.36	41.23	47.09	44.29	44.69	44.67	45.88
28	46.16	45.82	44.60	43.87	43.36	40.41	42.47	47.23	44.34	44.58	44.67	46.00
29	46.14	45.75	44.44	43.90	---	40.30	43.73	47.41	44.61	44.66	44.68	46.06
30	46.10	45.61	44.20	43.92	---	40.29	43.37	47.21	44.73	44.68	44.66	46.11
31	46.03	---	44.03	43.99	---	40.20	---	46.94	---	44.66	44.65	---
MEAN	46.29	46.49	45.75	43.18	44.68	41.59	40.39	44.66	45.35	44.94	44.54	45.26
MAX	46.53	47.29	48.95	43.99	46.09	43.29	43.73	47.41	46.81	45.44	44.68	46.11
MIN	46.03	45.61	44.03	42.30	43.36	40.20	39.72	42.21	44.29	44.58	44.32	44.69

CAL YR 2000 MEAN 47.11 MAX 54.59 MIN 41.63
WTR YR 2001 MEAN 44.43 MAX 48.95 MIN 39.72



Sloping gage at Salmon River at Salmon, Idaho. (April. 1924)

KOOTENAI RIVER BASIN

12321500 BOUNDARY CREEK NEAR PORTHILL, ID
(International gaging station)

LOCATION.--Lat 48°59'50", long 116°34'05", in SW¼NW¼SW¼ sec.11, T.65 N., R.2 W., Boundary County, Hydrologic Unit 17010104, on left bank near mouth of canyon, 0.2 mi south of international boundary, 3 mi west of Porthill, and at mile 3.5.

DRAINAGE AREA.--97 mi^2, approximately.

PERIOD OF RECORD.--May 1928 to current year (no winter records 1929, 1930).

GAGE.--Water-stage recorder. Elevation of gage is 1,770 ft above sea level, from topographic map. Prior to Apr. 24, 1929, nonrecording gage at site 140 ft upstream at different datum. Prior to Jan. 1, 1998, at datum 10.00 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversion upstream from station was used during the year.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,780 ft^3/s June 1, 1997 (from rating curve extended above 2,000 ft^3/s), gage height, 5.88 ft; minimum discharge, 5.0 ft^3/s occurred sometime between Nov. 10 and Dec. 3, 1936.

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 13	1945	1,410	13.49	May 24	2115	*1,640	*13.81

Minimum daily, 14 ft^3/s Feb. 8, Sept. 20, 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	39	29	e22	e22	e18	38	322	386	109	39	18
2	39	36	29	e22	e22	e19	36	259	442	98	36	18
3	34	34	29	e22	24	e20	38	248	307	90	33	18
4	32	40	28	e22	24	e20	35	271	272	83	45	17
5	31	40	28	e24	24	e22	39	381	257	76	46	18
6	30	33	28	e24	e20	23	38	326	258	69	37	17
7	29	28	28	e18	e17	24	37	341	290	65	33	17
8	29	36	27	e17	e14	25	39	419	239	60	30	17
9	29	32	27	e19	e15	27	38	504	249	56	28	17
10	29	e24	e26	e20	e16	28	38	506	254	53	27	16
11	28	e22	e22	e22	e17	27	39	543	245	52	26	16
12	27	e22	e20	e22	e17	27	36	698	400	50	25	16
13	27	e24	e18	e22	e17	28	38	1120	315	49	25	15
14	27	e26	e20	e22	e17	27	36	1030	288	47	24	15
15	27	e28	e22	e22	e17	23	37	996	280	44	23	15
16	27	e28	e22	e20	e17	28	38	912	234	44	22	15
17	46	e30	e22	e22	e17	26	48	657	209	50	22	16
18	44	31	e22	e22	e18	27	59	569	195	49	21	15
19	51	29	e22	e22	e18	37	60	571	181	45	20	15
20	43	28	e22	e22	e17	35	59	549	162	44	20	14
21	94	e26	e22	e20	e19	34	61	510	152	45	20	15
22	55	e26	e22	e22	e22	35	67	697	145	50	20	15
23	44	e26	e22	e22	e22	34	72	1000	133	48	29	15
24	39	e26	e22	e18	23	34	83	1170	124	48	41	15
25	37	e26	e24	e19	22	40	127	1020	205	44	28	14
26	36	e28	e24	e20	e19	56	212	847	159	39	24	23
27	35	30	e24	e20	e18	53	325	742	148	37	22	31
28	39	30	e24	e20	e18	51	918	830	143	39	21	20
29	62	29	e22	e20	---	54	592	512	134	55	20	18
30	46	29	e22	e20	---	44	380	380	119	43	20	17
31	40	---	e22	e20	---	38	---	366	---	42	19	---
TOTAL	1217	886	741	649	533	984	3663	19296	6925	1723	846	508
MEAN	39.3	29.5	23.9	20.9	19.0	31.7	122	622	231	55.6	27.3	16.9
MAX	94	40	29	24	24	56	918	1170	442	109	46	31
MIN	27	22	18	17	14	18	35	248	119	37	19	14
AC-FT	2410	1760	1470	1290	1060	1950	7270	38270	13740	3420	1680	1010
CFSM	.40	.30	.25	.22	.20	.33	1.26	6.42	2.38	.57	.28	.17
IN.	.47	.34	.28	.25	.20	.38	1.40	7.40	2.66	.66	.32	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

MEAN	55.2	104	71.7	50.0	66.7	101	409	884	571	147	49.1	39.3
MAX	222	290	260	84.7	201	213	611	1163	1127	453	96.1	145
(WY)	1998	2000	1996	1996	1996	1995	1990	1997	1999	1999	1999	1997
MIN	23.3	25.6	23.9	20.9	19.0	31.7	122	575	160	55.6	25.4	16.9
(WY)	1988	1988	2001	2001	2001	2001	2001	1992	1992	2001	1988	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1988 - 2001	
ANNUAL TOTAL	73657		37971			
ANNUAL MEAN	201		104		213	
HIGHEST ANNUAL MEAN					324	1996
LOWEST ANNUAL MEAN					104	2001
HIGHEST DAILY MEAN	1460	May 22	1170	May 24	2570	Jun 1 1997
LOWEST DAILY MEAN	18	Dec 13	14	Feb 8	13	Nov 29 1987
ANNUAL SEVEN-DAY MINIMUM	21	Dec 11	15	Sep 19	15	Sep 19 2001
ANNUAL RUNOFF (AC-FT)	146100		75320		154100	
ANNUAL RUNOFF (CFSM)	2.07		1.07		2.19	
ANNUAL RUNOFF (INCHES)	28.25		14.56		29.80	
10 PERCENT EXCEEDS	721		310		666	
50 PERCENT EXCEEDS	55		29		65	
90 PERCENT EXCEEDS	27		18		25	

e Estimated

KOOTENAI RIVER BASIN

12322000 KOOTENAI RIVER AT PORTHILL, ID
(International gaging station)

LOCATION.--Lat 48°59'47", long 116°30'22", in SE¼NE¼SE¼ sec.7, T.65 N., R.1 W., Boundary County, Hydrologic Unit 17010104, on right bank 1,200 ft south of international boundary at Porthill, and at mile 105.8.

DRAINAGE AREA.--13,700 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to July 1904 and October 1927 to March 1928 (elevations only), and April 1928 to current year in reports of Geological Survey. October 1924 to September 1927 (gage heights only) in reports of Water Survey of Canada, Department of Environment.

REVISED RECORDS.--SWD ID 1971-75(m).

GAGE.--Water-stage recorder. Datum of gage is 1,700.00 ft above Topographic Division Datum of 1928. Gage readings have been reduced to that datum. Sea level and datum of Geodetic Survey of Canada are 0.03 ft higher. Prior to May 17, 1928, nonrecording gages at approximately same site. Datum of gages prior to July 28, 1928, 38.34 ft higher, except in 1904 when different datum was used. Prior to March 27, 1996, at site 1,500 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records fair. Daily discharge represents entire flow passing international boundary, and is computed by adding tributary inflow for intervening area to flow at station near Copeland and correcting for channel storage between stations near Copeland and at Porthill. Since October 1989 the USGS Branch model has been used for this computation. Boundary dike of Reclamation Farm and U.S. Forest Service roadway dike (south side of Boundary Creek) remained intact and flow of river was confined throughout year to main channel on which gage is located. Elevations affected by backwater from Kootenay Lake. No drainage dike failed during year. Flow regulated by Libby Dam started on Mar. 21, 1972.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge (1929-71), 125,000 ft^3/s June 1, 1948; maximum elevation, 1,767.61 ft, June 7, 1961; minimum daily discharge, 1,380 ft^3/s Feb. 8, 1936; minimum elevation, 1,738.21 ft, Apr. 3, 1944. Maximum discharge since regulation (1972-2001), 60,200 ft^3/s June 1, 1972, maximum elevation, 1,758.84 ft, June 2, 1972; minimum daily, 2,610 ft Jan. 9, 1973.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 1,772.7 ft in June 1894, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 19,700 ft^3/s Dec. 12; maximum elevation, 1,746.26 ft, May 29; minimum daily, 4,630 ft^3/s Mar. 13; minimum elevation, 1,738.83 ft, Apr. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7520	6980	8620	5670	10300	6820	5410	11500	9910	5990	6790	6180
2	7440	7050	7750	5240	10300	6760	5520	10600	9580	5840	6860	6500
3	7360	6940	6970	5280	10300	6850	5600	9720	9370	7070	6720	6450
4	7240	6800	6980	5240	10400	6890	5460	9340	8950	7290	6860	6630
5	7230	7020	8200	5250	10400	6810	5050	9710	8730	7180	6760	6550
6	7190	7120	8480	5170	10500	6260	4930	10100	8300	7320	6740	6610
7	7030	7020	8540	5230	10400	5510	4920	9870	8250	7160	6560	6950
8	7020	7920	8560	5110	10400	5040	5000	9960	7930	7120	6860	6530
9	7010	10300	8760	5110	13800	4770	5000	10800	7750	7150	6750	6760
10	7010	11800	10800	5180	14700	4780	5030	11600	7750	7040	6680	6760
11	7020	11700	16600	5340	14800	4820	5210	11900	7500	7060	6740	6780
12	7000	11800	19700	5170	14800	4790	5020	12400	7930	6930	6740	6680
13	6980	11900	18300	5160	14900	4630	4820	14300	8200	6920	6680	6620
14	6950	12000	14500	5160	14900	4890	4880	16200	7960	7160	6720	6580
15	6970	11900	11500	5250	14800	4860	4940	16500	8180	6870	6670	6540
16	6960	12000	9300	5100	14800	4900	4950	16000	7680	6990	6630	6540
17	7000	12100	7990	5060	14900	4740	4930	14600	7720	7040	6540	6420
18	6960	11700	7310	5040	14800	4730	5040	13200	7260	7000	6520	6700
19	7030	10400	8510	5050	14800	4880	5280	12400	7120	7020	6510	6440
20	6970	10300	8740	5070	14800	5080	5430	12000	7150	9060	6460	6500
21	7190	11900	8630	4980	11800	4990	5410	11500	6800	9000	6350	6560
22	7320	11800	8550	5080	8980	5040	5460	11900	6540	8050	6410	6460
23	7200	10000	7780	7230	7800	5060	5410	13500	6440	7260	6510	6380
24	7100	8460	7220	9720	6700	5040	5530	15500	6430	6920	6420	6400
25	7100	7760	7160	10100	6980	5050	6330	16700	6620	7120	6500	6610
26	7120	7090	7160	10200	6840	5140	7320	16100	6540	7000	6510	6300
27	7100	7190	7070	10200	6810	5260	8540	14800	6430	6930	6510	6380
28	7060	8540	7120	10200	6800	5500	11700	13700	6070	6700	6490	6470
29	7090	8820	7080	10300	---	5470	13700	12300	6250	6900	6580	6480
30	7070	8680	6650	10300	---	5460	12300	11200	6190	6940	6510	6480
31	7000	---	6190	10200	---	5460	---	10100	---	6870	6440	---
TOTAL	220240	284990	286720	202390	322510	166280	184120	390000	227530	220900	205020	196240
MEAN	7105	9500	9249	6529	11520	5364	6137	12580	7584	7126	6614	6541
MAX	7520	12100	19700	10300	14900	6890	13700	16700	9910	9060	6860	6950
MIN	6950	6800	6190	4980	6700	4630	4820	9340	6070	5840	6350	6180
AC-FT	436800	565300	568700	401400	639700	329800	365200	773600	451300	438200	406700	389200

12322000 KOOTENAI RIVER AT PORTHILL, ID--Continued
(International gaging station)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1971, BY WATER YEAR (WY) (UNREGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	7059	6449	5570	4680	5099	5847	17750	45810	51730	25120	10470	7285
MAX	18310	13100	15880	13890	14130	12500	48000	67760	86560	53430	18020	17640
(WY)	1948	1934	1934	1934	1951	1934	1934	1956	1967	1954	1954	1959
MIN	3750	2917	2884	2099	2192	2996	5518	21750	22810	10150	6469	4945
(WY)	1937	1937	1945	1937	1936	1937	1945	1944	1941	1944	1941	1936

SUMMARY STATISTICS	[a] WATER YEARS 1929 - 1971	
ANNUAL MEAN	16100	
HIGHEST ANNUAL MEAN	22430	1956
LOWEST ANNUAL MEAN	8205	1944
HIGHEST DAILY MEAN	125000	Jun 1 1948
LOWEST DAILY MEAN	1380	Feb 8 1936
ANNUAL SEVEN-DAY MINIMUM	1520	Jan 3 1937
ANNUAL RUNOFF (AC-FT	11670000	
10 PERCENT EXCEEDS	44300	
50 PERCENT EXCEEDS	7490	
90 PERCENT EXCEEDS	3690	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2001, BY WATER YEAR (WY) (REGULATED, UNADJUSTED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	15170	17730	17150	16480	13970	10310	14040	22680	21620	13590	11590	11400
MAX	32350	27050	32450	29770	25230	16670	29930	44060	48640	30780	20090	20690
(WY)	1973	1992	1996	1996	1991	1990	1996	1997	1972	1981	1976	1972
MIN	5844	5165	3639	3371	4315	4940	6137	11530	6717	4696	4220	5782
(WY)	1972	1972	1972	1972	1973	1985	2001	1977	1977	1988	1975	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		[b] WATER YEARS 1972 - 2001	
ANNUAL TOTAL	5182800		2906940			
ANNUAL MEAN	14160		7964		15480	
HIGHEST ANNUAL MEAN					24140	1996
LOWEST ANNUAL MEAN					7964	2001
HIGHEST DAILY MEAN	36400	Jun 15	19700	Dec 12	61400	May 14 1997
LOWEST DAILY MEAN	6190	Dec 31	4630	Mar 13	2610	Jan 9 1973
ANNUAL SEVEN-DAY MINIMUM	6920	Dec 25	4790	Mar 9	2760	Jan 7 1973
ANNUAL RUNOFF (AC-FT)	10280000		5766000		11210000	
10 PERCENT EXCEEDS	26500		12000		26700	
50 PERCENT EXCEEDS	11100		7000		14100	
90 PERCENT EXCEEDS	7100		5080		5620	

a Unregulated.
b Regulated, unadjusted.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45.87	45.48	44.58	43.33	42.38	42.51	39.18	40.99	45.86	44.28	43.90	44.09
2	45.87	45.50	44.45	43.20	42.39	42.46	39.15	40.94	45.90	44.35	43.85	44.27
3	45.84	45.51	44.44	43.08	42.42	42.40	39.06	40.82	45.96	44.45	43.83	44.36
4	45.79	45.51	44.44	42.97	42.40	42.34	39.00	40.72	45.91	44.45	43.78	44.48
5	45.69	45.58	44.53	42.84	42.38	42.28	38.89	40.79	45.76	44.46	43.78	44.56
6	45.60	45.64	44.56	42.77	42.35	42.21	38.87	40.88	45.55	44.44	43.79	44.54
7	45.58	45.58	44.61	42.68	42.25	42.09	38.95	40.83	45.44	44.35	43.82	44.52
8	45.59	45.62	44.62	42.60	42.13	41.96	38.97	40.86	45.28	44.30	43.91	44.31
9	45.61	45.77	44.63	42.56	42.46	41.87	39.00	41.06	45.13	44.23	43.84	44.19
10	45.67	45.87	44.83	42.50	42.54	41.73	39.07	41.21	45.10	44.18	43.84	44.09
11	45.68	45.84	45.40	42.47	42.63	41.57	39.10	41.32	45.06	44.15	43.83	44.10
12	45.70	45.85	45.84	42.42	42.73	41.41	39.08	41.49	45.07	44.18	43.81	44.12
13	45.69	45.86	45.85	42.35	42.84	41.25	39.07	42.02	45.04	44.27	43.85	44.20
14	45.66	45.86	45.57	42.30	42.90	41.18	39.13	42.73	44.93	44.29	43.85	44.27
15	45.66	45.81	45.43	42.23	42.98	41.02	39.15	43.11	44.74	44.22	43.82	44.35
16	45.66	45.75	45.21	42.13	43.09	40.85	39.15	43.32	44.54	44.16	43.80	44.41
17	45.72	45.71	45.15	42.06	43.20	40.67	39.12	43.34	44.38	44.16	43.76	44.49
18	45.71	45.58	45.03	41.99	43.30	40.53	39.20	43.24	44.15	44.11	43.68	44.61
19	45.76	45.38	45.05	41.92	43.41	40.46	39.25	43.18	43.96	44.07	43.65	44.70
20	45.77	45.36	45.01	41.85	43.51	40.28	39.26	43.23	43.80	44.20	43.63	44.82
21	45.92	45.37	44.92	41.78	43.29	40.18	39.23	43.14	43.72	44.20	43.66	44.88
22	45.95	45.37	44.81	41.77	43.06	40.03	39.20	43.16	43.77	44.13	43.73	44.94
23	45.92	45.23	44.64	41.84	42.90	39.88	39.15	43.50	43.77	44.05	43.76	45.01
24	45.89	45.20	44.48	42.02	42.82	39.75	39.15	44.23	43.73	44.09	43.88	45.08
25	45.86	45.17	44.32	42.10	42.85	39.63	39.21	44.98	43.69	44.10	43.94	45.16
26	45.80	45.08	44.16	42.15	42.75	39.57	39.35	45.22	43.69	44.04	43.99	45.18
27	45.69	45.04	44.01	42.18	42.67	39.49	39.63	45.36	43.68	43.95	44.01	45.34
28	45.59	44.93	43.89	42.21	42.59	39.46	40.33	45.76	43.78	43.87	44.01	45.46
29	45.57	44.81	43.73	42.22	---	39.35	41.06	46.15	44.04	43.91	44.01	45.52
30	45.53	44.69	43.56	42.26	---	39.33	41.07	46.15	44.19	43.92	44.00	45.57
31	45.46	---	43.45	42.35	---	39.22	---	46.00	---	43.92	44.01	---
MEAN	45.72	45.47	44.68	42.36	42.76	40.87	39.30	42.89	44.65	44.18	43.84	44.65
MAX	45.95	45.87	45.85	43.33	43.51	42.51	41.07	46.15	45.96	44.46	44.01	45.57
MIN	45.46	44.69	43.45	41.77	42.13	39.22	38.87	40.72	43.68	43.87	43.63	44.09

CAL YR 2000 MEAN 45.23 MAX 50.78 MIN 39.96
WTR YR 2001 MEAN 43.45 MAX 46.15 MIN 38.87

12322000 KOOTENAI RIVER AT PORTHILL, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-50, 1963 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1983 to September 1991 (discontinued).
WATER TEMPERATURE: Jaunuary 1949 to September 1950, May 1963 to current year.
SUSPENDED SEDIMENT DISCHARGE: October 1983 to September 1991 (discontinued).

INSTRUMENTATION.--Water temperature recorder since May 23, 1963.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 303 microsiemens/cm, Feb. 3, 1985; minimum, 74 microsiemens/cm, Nov. 27, 1990.
WATER TEMPERATURE: Maximum, 23.5 °C July 27, 1975, July 29-31, 1988; minimum, 0.0 °C many days during winter months.
SEDIMENT CONCENTRATIONS: Maximum, 60 mg/L Nov. 27, 1986; minimum, 1 mg/L Dec. 28-29, 1985, Dec. 18, 1986.
SEDIMENT LOADS: Maximum, 3,220 tons Nov. 25, 1986; minimum, 11 tons July 25-26, Aug. 5, 23, 1988.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 20.6 °C Aug. 12, 15, 17; minimum, 2.0 °C Dec. 21.

REMARKS.--Missing data due to equipment malfunction.

WATER-QUALITY DATA, APRIL TO SEPTEMBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)
APR										
04...	1020	5270	239	8.0	5.0	5.5	3.2	3.2	27.0	<1
MAY										
22...	0900	10500	122	7.9	16.0	9.6	4.2	7.3	68.0	S2
JUN										
27...	1000	5940	193	8.1	15.5	16.2	6.5	9.1	98.5	S1
JUL										
30...	1045	6600	235	7.6	16.0	17.9	3.7	8.0	90.3	S1
AUG										
27...	1130	6460	241	7.9	24.0	18.0	1.7	8.7	98.1	S5
SEP										
24...	1230	6450	245	8.4	24.5	15.9	2.3	9.4	101	S5

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)	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)
SEP													
24...	117	31.8	9.10	3.3	5.68	.52	120	1	97	21.5	2.6	<.2	4.2

DATE	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR										
04...	--	--	--	.017	.19	.063	<.007	.006	3	43
MAY										
22...	--	--	--	<.002	E.04	.046	<.007	.007	2	57
JUN										
27...	--	--	--	.009	.08	.014	<.007	.006	1	16
JUL										
30...	--	--	--	.002	.11	.025	<.007	.005	2	36
AUG										
27...	--	--	--	.004	.10	.026	<.007	.004	<1	--
SEP										
24...	131	.178	2280	.008	.11	.009	<.007	.005	2	35

E Estimated value
S Most probable value

12322000 KOOTENAI RIVER AT PORTHILL, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.1	12.8	13.0	9.0	8.8	9.0	5.6	5.4	5.5	4.0	3.9	4.0
2	13.1	13.0	13.0	8.8	8.7	8.8	5.6	5.4	5.6	3.9	3.8	3.9
3	13.0	12.5	12.7	8.7	8.7	8.7	5.4	4.9	5.2	3.8	3.5	3.7
4	12.5	12.1	12.3	8.7	8.5	8.7	5.1	4.9	5.0	3.5	3.4	3.5
5	12.1	11.8	12.0	8.5	8.1	8.2	5.4	5.1	5.3	3.5	3.5	3.5
6	11.9	11.6	11.7	8.2	8.1	8.1	5.4	5.3	5.4	3.7	3.5	3.5
7	11.6	11.0	11.3	8.1	7.7	7.9	5.3	5.1	5.1	3.5	3.3	3.4
8	11.0	10.5	10.7	7.7	7.4	7.6	5.3	5.1	5.3	3.4	3.2	3.3
9	10.5	10.2	10.3	7.4	7.3	7.3	5.3	5.1	5.2	3.2	3.1	3.1
10	10.4	10.1	10.2	7.3	6.7	7.1	5.1	4.9	5.1	3.2	3.1	3.1
11	10.2	9.9	10.1	6.7	6.3	6.4	4.9	4.8	4.8	3.2	3.1	3.2
12	10.4	10.2	10.4	6.7	6.5	6.5	4.8	4.2	4.3	3.4	3.2	3.3
13	10.4	10.4	10.4	6.7	6.3	6.5	4.6	4.3	4.3	3.2	2.8	3.0
14	10.5	10.4	10.5	6.5	6.2	6.3	4.6	4.3	4.5	2.8	2.3	2.5
15	11.0	10.5	10.8	6.7	6.3	6.5	4.3	4.0	4.2	2.4	2.1	2.3
16	11.5	11.0	11.2	6.7	6.5	6.6	4.0	3.7	3.8	2.6	2.3	2.4
17	11.5	11.3	11.4	6.5	6.2	6.4	3.7	3.4	3.5	2.9	2.6	2.7
18	11.5	11.1	11.3	6.2	6.2	6.2	3.4	3.1	3.3	2.8	2.8	2.8
19	11.1	11.0	11.0	6.3	6.2	6.3	3.1	2.7	2.9	2.8	2.8	2.8
20	11.0	11.0	11.0	6.3	6.2	6.3	2.7	2.1	2.4	2.9	2.8	2.9
21	11.0	10.6	10.8	6.3	6.2	6.2	2.1	2.0	2.0	2.9	2.8	2.8
22	10.7	10.5	10.5	6.2	5.9	6.0	2.8	2.1	2.5	2.8	2.6	2.6
23	10.8	10.5	10.7	6.0	5.9	5.9	2.9	2.8	2.9	2.8	2.6	2.6
24	10.7	10.2	10.5	5.9	5.6	5.8	2.9	2.9	2.9	2.6	2.4	2.6
25	10.2	9.9	10.1	5.9	5.7	5.8	2.9	2.6	2.8	2.8	2.6	2.7
26	9.9	9.6	9.7	5.9	5.7	5.8	2.9	2.6	2.7	3.2	2.8	3.0
27	9.6	9.1	9.4	5.8	5.6	5.7	3.4	2.9	3.2	3.4	3.1	3.3
28	9.1	8.8	9.0	5.6	5.6	5.6	3.7	3.4	3.5	3.5	3.2	3.4
29	9.0	8.7	8.9	5.6	5.4	5.5	4.0	3.7	3.9	3.5	3.4	3.4
30	9.0	8.8	9.0	5.4	5.3	5.4	4.2	4.0	4.0	3.4	3.2	3.2
31	9.0	9.0	9.0	---	---	---	4.2	4.0	4.1	3.2	3.1	3.2
MONTH	13.1	8.7	10.7	9.0	5.3	6.8	5.6	2.0	4.0	4.0	2.1	3.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.2	3.1	3.1	3.4	3.2	3.3	---	---	---	8.5	7.4	7.9
2	3.4	3.1	3.3	3.2	2.8	3.1	---	---	---	7.4	7.1	7.3
3	3.9	3.4	3.7	2.9	2.4	2.8	---	---	---	7.4	7.0	7.2
4	4.0	3.9	3.9	2.6	2.3	2.4	---	---	---	8.1	7.3	7.6
5	4.0	3.7	3.9	2.8	2.4	2.6	5.6	5.4	5.4	8.5	7.9	8.2
6	3.9	3.5	3.7	3.2	2.8	3.0	5.6	5.3	5.4	9.1	8.5	8.8
7	3.7	3.2	3.4	3.9	3.2	3.5	5.6	5.1	5.3	9.7	9.1	9.4
8	3.2	2.9	3.1	3.9	3.5	3.7	5.4	5.3	5.3	9.9	9.7	9.8
9	3.1	2.5	2.9	3.9	3.7	3.8	5.7	5.3	5.5	9.7	9.3	9.5
10	2.5	2.1	2.3	4.5	3.9	4.2	6.0	5.6	5.8	9.9	9.3	9.5
11	2.9	2.1	2.5	5.1	4.3	4.6	6.5	5.9	6.2	10.1	9.6	9.9
12	3.1	2.8	3.0	4.9	4.5	4.7	6.7	6.2	6.3	10.2	9.9	10.1
13	3.4	2.9	3.2	5.1	4.6	4.9	6.5	6.0	6.2	10.4	9.9	10.1
14	3.2	3.1	3.2	5.3	4.9	5.1	6.5	6.0	6.2	10.1	9.6	9.8
15	3.4	3.2	3.3	5.6	5.1	5.2	7.1	6.0	6.4	9.7	9.6	9.7
16	3.2	2.8	3.0	5.4	5.1	5.3	7.1	6.2	6.5	9.6	9.1	9.3
17	2.9	2.6	2.8	5.1	4.6	4.8	7.0	6.3	6.6	9.1	8.5	8.7
18	2.7	2.3	2.4	4.9	4.6	4.8	7.1	6.5	6.9	8.8	8.7	8.7
19	2.9	2.4	2.6	5.3	4.9	5.0	8.2	7.1	7.5	9.0	8.7	8.8
20	2.9	2.6	2.7	5.3	4.9	5.0	8.2	7.6	7.9	9.3	8.7	9.0
21	2.9	2.4	2.7	5.6	4.9	5.2	9.0	7.7	8.2	10.1	9.3	9.6
22	2.9	2.8	2.9	5.7	5.1	5.3	9.0	8.2	8.6	10.1	9.6	9.8
23	3.2	2.8	3.0	5.9	5.1	5.5	8.8	8.4	8.7	10.7	9.8	10.2
24	3.2	3.1	3.1	6.7	5.4	6.0	9.0	8.4	8.5	11.8	10.3	11.0
25	3.5	3.1	3.3	6.3	6.0	6.2	9.1	8.4	8.6	12.6	11.5	12.0
26	3.4	3.2	3.3	6.5	6.0	6.2	9.0	8.7	8.8	12.8	12.3	12.5
27	3.5	3.2	3.3	---	---	---	9.7	9.0	9.3	12.9	12.5	12.7
28	3.5	3.2	3.3	---	---	---	9.4	9.0	9.1	12.9	12.8	12.9
29	---	---	---	---	---	---	9.4	9.1	9.3	12.8	12.6	12.7
30	---	---	---	---	---	---	9.1	8.5	8.8	12.8	12.3	12.6
31	---	---	---	---	---	---	---	---	---	13.2	12.6	12.9
MONTH	4.0	2.1	3.1	---	---	---	---	---	---	13.2	7.0	9.9

KOOTENAI RIVER BASIN

12322000 KOOTENAI RIVER AT PORTHILL, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.9	12.5	12.8	17.2	16.4	16.6	18.4	17.6	17.9	18.1	17.6	17.8
2	12.5	11.9	12.2	17.5	16.2	16.7	18.0	17.5	17.7	18.0	17.6	17.7
3	---	---	---	17.6	16.6	17.1	18.1	17.2	17.5	17.8	17.5	17.6
4	---	---	---	18.8	17.1	17.8	18.0	17.5	17.7	18.0	17.5	17.6
5	12.8	12.0	12.5	19.6	18.1	19.0	18.3	17.6	17.8	17.6	17.3	17.5
6	12.8	12.6	12.7	19.7	19.0	19.6	18.6	17.7	18.1	17.4	17.0	17.2
7	12.6	11.4	12.0	19.7	19.3	19.5	19.1	17.9	18.4	17.1	16.4	16.6
8	11.8	10.9	11.1	19.6	18.9	19.3	19.6	18.4	18.9	16.5	15.9	16.1
9	11.4	10.9	11.1	19.7	18.9	19.1	19.4	18.6	18.8	16.7	15.9	16.1
10	12.2	11.2	11.7	19.6	18.8	19.1	19.6	18.4	18.8	16.5	15.7	16.1
11	11.8	11.5	11.7	18.9	18.0	18.3	20.2	18.7	19.3	16.2	15.6	15.9
12	11.8	11.7	11.7	18.8	17.8	18.3	20.6	19.2	19.7	16.2	15.4	15.8
13	12.3	11.7	12.1	19.4	18.2	18.9	20.2	19.4	19.8	16.4	15.6	15.9
14	12.5	12.0	12.3	19.6	18.6	19.0	20.2	19.4	19.7	16.8	15.8	16.1
15	12.0	11.4	11.6	19.1	18.6	18.8	20.6	19.4	19.7	17.0	16.0	16.3
16	11.5	10.9	11.1	18.6	17.6	18.1	20.4	19.7	20.0	17.0	16.3	16.6
17	11.4	10.8	11.0	17.9	17.3	17.4	20.6	19.7	19.9	17.0	16.5	16.7
18	11.8	11.0	11.4	17.8	17.5	17.6	19.8	19.4	19.6	17.0	16.7	16.8
19	13.5	11.5	12.6	18.1	17.4	17.6	19.5	19.1	19.2	17.3	16.8	17.1
20	14.0	12.6	13.6	17.5	16.5	17.1	19.4	18.9	19.1	17.2	16.8	17.0
21	14.8	13.6	14.3	16.8	15.9	16.1	19.1	18.8	18.9	17.0	16.7	16.8
22	15.3	14.3	14.8	16.1	15.7	15.8	18.9	18.6	18.7	16.8	16.4	16.6
23	15.4	14.7	15.1	16.7	15.9	16.2	18.8	18.4	18.6	16.5	15.9	16.2
24	15.7	15.1	15.5	17.0	15.9	16.3	18.6	18.3	18.4	16.2	15.7	15.9
25	16.1	15.5	15.8	17.3	16.2	16.7	18.6	17.8	18.1	16.1	15.6	15.8
26	16.5	15.6	16.0	17.3	16.7	16.9	18.6	17.5	17.8	15.7	15.6	15.6
27	16.7	16.0	16.4	17.6	16.7	17.2	17.8	17.2	17.4	15.7	15.4	15.6
28	17.3	16.5	16.9	18.0	17.0	17.6	17.3	16.8	17.0	15.7	15.6	15.6
29	18.1	16.7	17.2	18.1	17.6	18.0	18.0	16.8	17.2	15.7	15.6	15.6
30	17.3	16.4	16.8	18.4	17.6	17.9	17.6	17.0	17.3	15.6	15.4	15.5
31	---	---	---	18.3	17.8	18.0	18.0	17.4	17.7	---	---	---
MONTH	---	---	---	19.7	15.7	17.8	20.6	16.8	18.5	18.1	15.4	16.5

KOOTENAI RIVER BASIN

12322500 KOOTENAY LAKE AT KUSKONOOK, BRITISH COLUMBIA
(International gaging station)

LOCATION.--Lat 49°17'56", long 116°39'31", on east shore of Kootenay Lake at Kuskonook, British Columbia, and at mile 74.5.

PERIOD OF RECORD.--May 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,735.20 ft above sea level, which is the same at Porthill as datum of 1929, supplementary adjustment of 1947, and 0.03 ft higher than datum in use at station Kootenai River at Porthill. Prior to April 25, 1938, nonrecording gages at same site at datum 3.00 ft higher. Add 1,700 ft to published gage heights to obtain sea level.

REMARKS.--Elevation is subject to partial regulation by Corra Linn Dam on Kootenay River below outlet. Major inflow is from Kootenai River (see sta 12322000). Diversions for irrigation of about 14,600 acres above Kootenay Lake.

COOPERATION.--This station is maintained by Canada under agreement with the United States.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation 1,762.42 ft, June 9, 1961; minimum daily 1,737.86 ft, April 5, 6, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum elevation 1,745.60 ft, Oct. 22; minimum, 1,738.56 ft, Apr. 5, 6.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45.52	45.17	44.16	43.00	41.68	42.11	38.79	39.96	45.24	44.01	43.57	43.82
2	45.52	45.18	44.10	42.89	41.73	42.06	38.73	40.03	45.31	44.08	43.55	43.94
3	45.49	45.19	44.11	42.78	41.74	42.00	38.65	40.03	45.41	44.09	43.52	44.05
4	45.45	45.21	44.10	42.66	41.69	41.93	38.60	39.99	45.39	44.10	43.47	44.13
5	45.35	45.25	44.12	42.50	41.66	41.87	38.56	40.00	45.28	44.12	43.46	44.23
6	45.27	45.30	44.14	42.46	41.62	41.83	38.56	40.03	45.10	44.08	43.47	44.22
7	45.26	45.27	44.18	42.38	41.54	41.75	38.58	40.03	44.96	44.01	43.50	44.14
8	45.26	45.24	44.19	42.30	41.45	41.64	38.63	40.03	44.82	43.95	43.55	43.99
9	45.29	45.26	44.21	42.24	41.38	41.56	38.66	40.08	44.72	43.89	43.53	43.84
10	45.34	45.25	44.27	42.18	41.32	41.42	38.70	40.15	44.68	43.84	43.52	43.74
11	45.36	45.23	44.33	42.14	41.41	41.26	38.72	40.22	44.66	43.84	43.51	43.74
12	45.37	45.22	44.42	42.09	41.52	41.10	38.74	40.34	44.63	43.86	43.50	43.79
13	45.37	45.23	44.55	42.03	41.64	40.96	38.77	40.58	44.58	43.93	43.50	43.87
14	45.35	45.22	44.66	41.99	41.73	40.83	38.79	41.01	44.46	43.94	43.50	43.94
15	45.34	45.19	44.79	41.93	41.85	40.68	38.80	41.41	44.26	43.90	43.48	44.02
16	45.34	45.12	44.70	41.81	41.95	40.52	38.81	41.76	44.07	43.86	43.46	44.09
17	45.39	45.07	44.67	41.73	42.05	40.37	38.81	42.01	43.90	43.82	43.43	44.19
18	45.42	44.98	44.65	41.67	42.17	40.23	38.85	42.11	43.69	43.76	43.38	44.30
19	45.43	44.86	44.61	41.61	42.28	40.12	38.86	42.20	43.51	43.70	43.34	44.38
20	45.45	44.83	44.57	41.54	42.39	39.97	38.86	42.24	43.38	43.66	43.33	44.47
21	45.54	44.72	44.48	41.48	42.47	39.83	38.84	42.25	43.34	43.69	43.38	44.56
22	45.60	44.73	44.36	41.44	42.51	39.68	38.81	42.22	43.41	43.70	43.42	44.62
23	45.59	44.73	44.24	41.39	42.46	39.51	38.78	42.33	43.44	43.69	43.47	44.70
24	45.56	44.80	44.11	41.39	42.44	39.38	38.76	42.77	43.40	43.72	43.55	44.78
25	45.52	44.83	43.95	41.42	42.43	39.29	38.77	43.31	43.35	43.74	43.60	44.85
26	45.46	44.79	43.80	41.45	42.36	39.23	38.80	43.73	43.33	43.68	43.66	44.90
27	45.37	44.72	43.64	41.47	42.27	39.13	38.90	44.11	43.34	43.63	43.68	45.02
28	45.30	44.52	43.53	41.50	42.19	39.06	39.15	44.73	43.49	43.57	43.69	45.12
29	45.25	44.38	43.36	41.54	---	38.97	39.58	45.32	43.70	43.57	43.68	45.17
30	45.20	44.26	43.21	41.58	---	38.90	39.86	45.45	43.89	43.58	43.68	45.20
31	45.16	---	43.11	41.65	---	38.84	---	45.36	---	43.57	43.73	---
MEAN	45.39	44.99	44.17	41.94	41.93	40.52	38.82	41.80	44.22	43.83	43.52	44.33
MAX	45.60	45.30	44.79	43.00	42.51	42.11	39.86	45.45	45.41	44.12	43.73	45.20
MIN	45.16	44.26	43.11	41.39	41.32	38.84	38.56	39.96	43.33	43.57	43.33	43.74

CAL YR 2000 MEAN 44.15 MAX 48.76 MIN 39.11
WTR YR 2001 MEAN 42.96 MAX 45.60 MIN 38.56

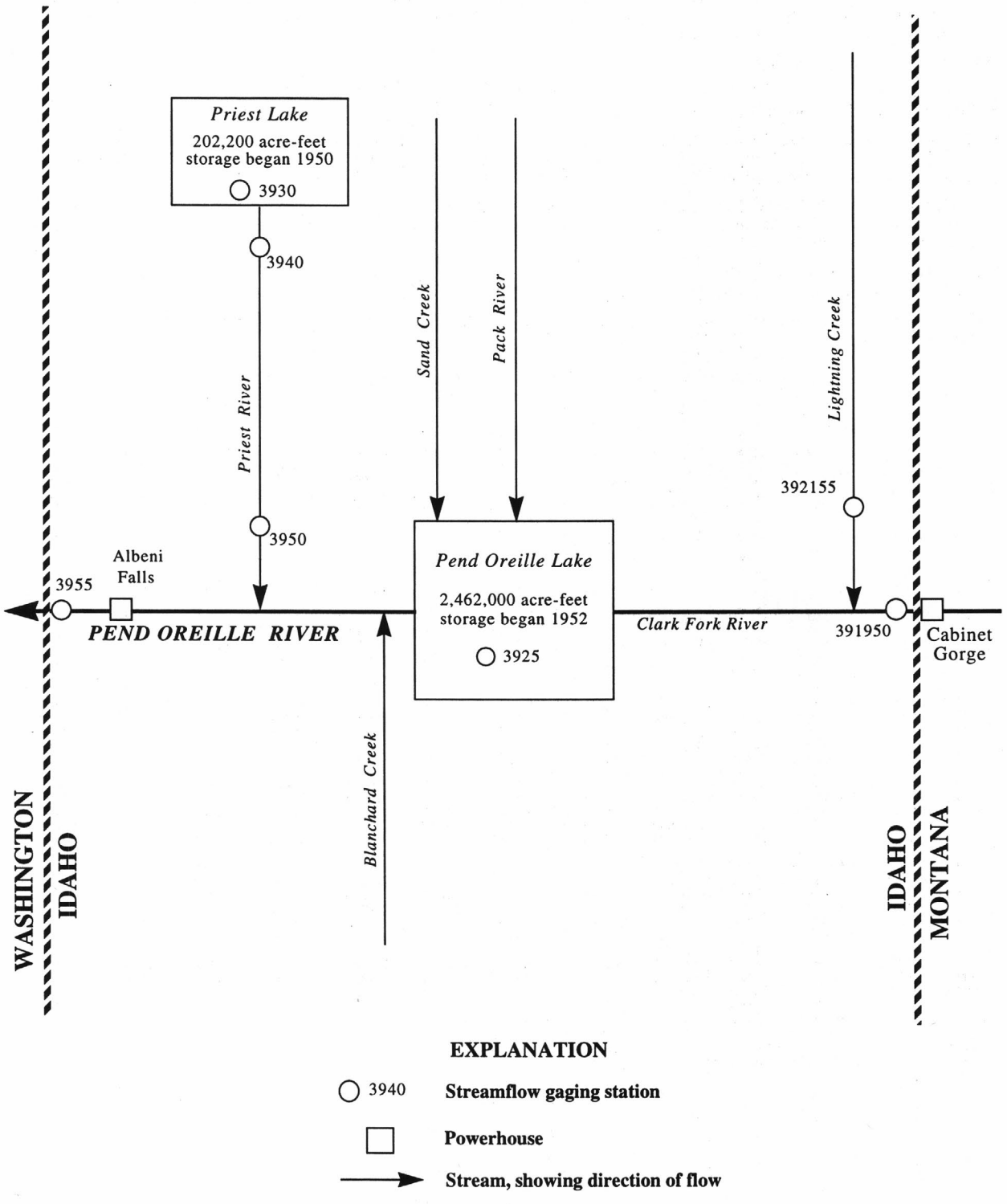


Figure 11. Schematic diagram showing gaging stations in Pend Oreille River Basin.

PEND OREILLE RIVER BASIN

12391950 CLARK FORK BELOW CABINET GORGE DAM, NEAR CABINET, ID

LOCATION.--Lat 48°05'18", long 116°04'16", in SW¼SW¼NW¼ sec.27, T.55 N., R.3 E., Cabinet Quad., Bonner County, Hydrologic Unit 17010213, on right bank 0.7 mi downstream from Cabinet Gorge Dam at cableway, 2.1 mi downstream from Blue Creek, 6.1 mi southeast of Clark Fork, and at mile 149.2.

DRAINAGE AREA.--22,067 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 2,060.00 ft above sea level (levels by Washington Water Power Co). See WSP 1933 for history of changes made prior to Sept. 30, 1952. Water-stage recorder at site 0.4 mi upstream at datum 60.00 ft lower Oct. 1, 1952, to Sept. 30, 1964, and at present datum Oct. 1, 1964, to May 21, 1973.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Hungry Horse Reservoir, Flathead Lake, and Noxon Rapids Reservoir. Extreme diurnal fluctuation caused by powerplant at Cabinet Gorge Dam. Diversions above station for irrigation of about 354,000 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 134,000 ft^3/s May 18, 1997, gage height, 29.14 ft; miminum daily, 3,330 ft^3/s Feb. 8, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37,300 ft^3/s June 18, gage height, 15.03 ft; minimum daily, 5,270 ft^3/s Feb. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6250	14800	10600	7720	10200	8710	6330	24200	26900	20200	9160	5670
2	8800	15000	9010	10800	8520	5400	10100	19500	19700	19600	6440	5650
3	10800	16700	11800	11900	5600	5440	8720	18900	24100	20500	10700	5640
4	12900	8930	11100	12700	5600	5310	6980	23900	25900	22200	6580	6420
5	12500	11000	11300	12500	6750	6160	6650	17900	28600	22900	6390	5580
6	11700	15300	10400	8220	5970	7880	7610	17500	26200	16600	9690	5830
7	6340	16300	11900	10700	5580	7120	7050	20600	25500	9590	7140	6050
8	7520	15800	11700	13300	8410	6800	7380	20600	26000	17500	7370	5710
9	10600	15000	11400	11400	6400	7080	8880	23000	19700	16900	7600	6470
10	9570	12000	13000	9890	5440	5570	9970	20900	17500	15700	7980	6070
11	9630	9550	14200	11100	5270	5360	11700	25500	25700	9620	5770	6770
12	10300	8200	15800	11200	6510	6040	11700	19900	28200	13000	6460	6540
13	10700	12800	14400	9000	7010	6390	10400	21100	27300	14800	7530	6430
14	5510	9910	14500	10900	6150	6610	6250	29000	26700	7250	7310	6140
15	6770	13200	12400	12900	5490	8250	6490	34000	26700	8530	7240	5750
16	10400	12900	7600	14900	5910	8770	8930	35900	20000	9090	7100	5910
17	8640	10700	11800	12900	5330	5430	8410	36300	20200	8120	7780	5570
18	10300	7370	13100	15200	5330	5340	8440	36300	26300	7530	5590	5580
19	11500	8270	13000	12400	5700	7010	9340	33500	25300	9520	5790	5740
20	11200	12300	16100	7590	5400	7550	8690	25600	25000	12000	6590	6110
21	7670	14300	13300	7970	5340	6530	5450	24200	25200	5820	6810	5690
22	8960	13000	8680	11300	5490	6650	6260	26500	22800	9710	6750	5510
23	11200	11800	9220	11800	7250	6690	7350	27100	13500	8280	6320	5450
24	11500	8060	14200	10600	5390	5470	7660	29000	19600	8740	7150	5470
25	12000	6090	12300	10700	5360	8380	7860	28400	23900	8550	5660	5440
26	10600	10300	13500	12000	5440	6600	9280	28300	25100	7900	7090	5430
27	11300	9880	14900	8240	5480	9040	10600	36000	21400	8350	6620	5480
28	5880	12400	15800	6480	6040	9290	5650	35200	24300	6210	7850	5520
29	11200	10300	16300	9760	---	9510	14600	33800	25300	6640	5680	5470
30	12500	11900	7500	14600	---	6470	20600	34400	16200	8690	6240	5440
31	13000	---	11200	10100	---	7550	---	29800	---	8460	6060	---
TOTAL	307740	354060	382010	340770	172360	214400	265330	836800	708800	368500	218440	174530
MEAN	9927	11800	12320	10990	6156	6916	8844	26990	23630	11890	7046	5818
MAX	13000	16700	16300	15200	10200	9510	20600	36300	28600	22900	10700	6770
MIN	5510	6090	7500	6480	5270	5310	5450	17500	13500	5820	5590	5430
AC-FT	610400	702300	757700	675900	341900	425300	526300	1660000	1406000	730900	433300	346200

CAL YR 2000 TOTAL 6582200 MEAN 17980 MAX 50500 MIN 5450 AC-FT 13060000
WTR YR 2001 TOTAL 4343740 MEAN 11900 MAX 36300 MIN 5270 AC-FT 8616000

12391950 CLARK FORK BELOW CABINET GORGE DAM, NEAR CABINET, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1984 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to July 1998, April to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 22.0 °C August 7-8, 10-11, 2000.

REMARKS.--Water-quality data previously published as Clark Fork at Whitehorse Rapids near Cabinet, ID (sta 12392000).

WATER-QUALITY DATA, APRIL TO SEPTEMBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)
APR										
05...	1015	8110	211	8.6	9.0	5.6	3.1	9.1	77.6	S1
MAY										
23...	1045	30900	137	7.8	19.0	12.0	3.8	5.8	58.2	S2
JUN										
28...	1030	30400	165	8.1	15.0	15.8	5.4	8.8	95.4	S3
JUL										
26...	1115	6330	179	8.2	24.0	19.8	2.7	--	--	<1
AUG										
30...	1030	5520	191	8.1	20.0	19.6	7.2	8.3	99.1	<1
SEP										
25...	1000	5440	201	8.2	22.0	17.1	2.1	8.2	92.6	S1

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)	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)
SEP													
25...	96.1	26.0	7.54	3.4	7.11	.92	110	0	92	6.2	1.4	<.2	7.8

DATE	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR										
05...	--	--	--	.010	.10	.043	<.007	.005	1	22
MAY										
23...	--	--	--	<.002	.11	.026	<.007	.018	--	--
JUN										
28...	--	--	--	.006	.17	.008	<.007	.017	33	2710
JUL										
26...	--	--	--	.002	.11	.009	<.007	.006	10	171
AUG										
30...	--	--	--	E.008	.25	E.014	<.007	.038	56	835
SEP										
25...	109	.148	1600	.008	.14	.021	<.007	.017	21	308

E Estimated value
S Most probable value

PEND OREILLE RIVER BASIN

12392000 CLARK FORK AT WHITEHORSE RAPIDS, NEAR CABINET, ID

LOCATION(Revised).--Lat 48°05'30", long 116°07'00", in NE¼ sec.30, T.55 N., R.3 E., Cabinet Quad., Bonner County, Hydrologic Unit 17010213, on right bank 3.0 mi downstream from Cabinet Gorge Dam, 4.5 mi southeast of Clark Fork, and at mile 146.9.

DRAINAGE AREA.--22,073 mi^2.

PERIOD OF RECORD.--September 1928 to current year. Prior to October 1952, published as "near Heron, Mont."

REVISED RECORDS.--WSP 1182: 1936. WSP 1736: 1931, 1936(m), 1937. WRD-ID-1973-1: 1972(M).

REMARKS.--Flow regulated by Hungry Horse Reservoir, Flathead Lake, and Noxon Rapids Reservoir. Extreme diurnal fluctuation caused by powerplant at Cabinet Gorge Dam. Diversions above station for irrigation of about 354,000 acres. Discharge measurements made at Whitehorse Rapids indicate about 600 ft^3/s ground-water inflow between the measuring cableway for Clark Fork River below Cabinet Gorge Dam (sta 12391950) and Whitehorse Rapids. Records given herein represent flow at Whitehorse Rapids, computed by adding this 600 ft^3/s to observed flows at 12391950, and are considered comparable to records at former site near Heron, except for minor surface inflow from additional drainage area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153,000 ft^3/s May 29 to June 1, 1948; maximum gage height, 50.97 ft, May 31, 1948, site and datum then in use; minimum observed, 270 ft^3/s Aug. 12, 1952 (discharge measurement), at sites in use since October 1952, during filling of Cabinet Gorge Reservoir; minimum daily since reservoir filled, 762 ft^3/s Sept. 2, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1894 reached a discharge of 195,000 ft^3/s from floodmark, elevation of 2,137.1 ft, at site about 4 mi upstream and 0.1 mi below "near Heron" site.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 36,900 ft^3/s May 17, 18; minimum daily, 5,870 ft^3/s Feb. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6850	15400	11200	8320	10800	9310	6930	24800	27500	20800	9760	6270
2	9400	15600	9610	11400	9120	6000	10700	20100	20300	20200	7040	6250
3	11400	17300	12400	12500	6200	6040	9320	19500	24700	21100	11300	6240
4	13500	9530	11700	13300	6200	5910	7580	24500	26500	22800	7180	7020
5	13100	11600	11900	13100	7350	6760	7250	18500	29200	23500	6990	6180
6	12300	15900	11000	8820	6570	8480	8210	18100	26800	17200	10300	6430
7	6940	16900	12500	11300	6180	7720	7650	21200	26100	10200	7740	6650
8	8120	16400	12300	13900	9010	7400	7980	21200	26600	18100	7970	6310
9	11200	15600	12000	12000	7000	7680	9480	23600	20300	17500	8200	7070
10	10200	12600	13600	10500	6040	6170	10600	21500	18100	16300	8580	6670
11	10200	10200	14800	11700	5870	5960	12300	26100	26300	10200	6370	7370
12	10900	8800	16400	11800	7110	6640	12300	20500	28800	13600	7060	7140
13	11300	13400	15000	9600	7610	6990	11000	21700	27900	15400	8130	7030
14	6110	10500	15100	11500	6750	7210	6850	29600	27300	7850	7910	6740
15	7370	13800	13000	13500	6090	8850	7090	34600	27300	9130	7840	6350
16	11000	13500	8200	15500	6510	9370	9530	36500	20600	9690	7700	6510
17	9240	11300	12400	13500	5930	6030	9010	36900	20800	8720	8380	6170
18	10900	7970	13700	15800	5930	5940	9040	36900	26900	8130	6190	6180
19	12100	8870	13600	13000	6300	7610	9940	34100	25900	10100	6390	6340
20	11800	12900	16700	8190	6000	8150	9290	26200	25600	12600	7190	6710
21	8270	14900	13900	8570	5940	7130	6050	24800	25800	6420	7410	6290
22	9560	13600	9280	11900	6090	7250	6860	27100	23400	10300	7350	6110
23	11800	12400	9820	12400	7850	7290	7950	27700	14100	8880	6920	6050
24	12100	8660	14800	11200	5990	6070	8260	29600	20200	9340	7750	6070
25	12600	6690	12900	11300	5960	8980	8460	29000	24500	9150	6260	6040
26	11200	10900	14100	12600	6040	7200	9880	28900	25700	8500	7690	6030
27	11900	10500	15500	8840	6080	9640	11200	36600	22000	8950	7220	6080
28	6480	13000	16400	7080	6640	9890	6250	35800	24900	6810	8450	6120
29	11800	10900	16900	10400	---	10100	15200	34400	25900	7240	6280	6070
30	13100	12500	8100	15200	---	7070	21200	35000	16800	9290	6840	6040
31	13600	---	11800	10700	---	8150	---	30400	---	9060	6660	---
TOTAL	326340	372120	400610	359420	189160	232990	283360	855400	726800	387060	237050	192530
MEAN	10530	12400	12920	11590	6756	7516	9445	27590	24230	12490	7647	6418
MAX	13600	17300	16900	15800	10800	10100	21200	36900	29200	23500	11300	7370
MIN	6110	6690	8100	7080	5870	5910	6050	18100	14100	6420	6190	6030
AC-FT	647300	738100	794600	712900	375200	462100	562000	1697000	1442000	767700	470200	381900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

MEAN	12020	13300	14460	14440	14870	15840	24780	49260	56960	26380	11670	10580
MAX	25670	21970	34850	28020	38150	36480	59140	93830	115800	57650	19680	18300
(WY)	1960	1996	1996	1934	1996	1996	1934	1997	1948	1950	1997	1985
MIN	5466	5008	4732	3527	4217	5122	6165	16450	15480	9214	6320	5448
(WY)	1937	1937	1937	1937	1936	1937	1977	1941	1977	1940	1994	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1929 - 2001	
ANNUAL TOTAL	6801880		4562840			
ANNUAL MEAN	18580		12500		22050	
HIGHEST ANNUAL MEAN					34250	1996
LOWEST ANNUAL MEAN					10180	1941
HIGHEST DAILY MEAN	51100	May 7	36900	May 17	153000	May 30 1948
LOWEST DAILY MEAN	6050	Sep 9	5870	Feb 11	762	Sep 2 1962
ANNUAL SEVEN-DAY MINIMUM	7000	Sep 17	6060	Sep 24	2710	Feb 10 1936
ANNUAL RUNOFF (AC-FT)	13490000		9050000		15980000	
10 PERCENT EXCEEDS	37400		24800		48100	
50 PERCENT EXCEEDS	14400		10100		15700	
90 PERCENT EXCEEDS	8190		6200		7210	

PEND OREILLE RIVER BASIN

12392155 LIGHTNING CREEK AT CLARK FORK, ID

LOCATION.--Lat 48°09'04", long 116°10'56", in NE¼NE¼NE¼ sec.3, T.55 N., R.2 E., Bonner County, Hydrologic Unit 17010213, on left bank, at Clark Fork, 20 ft upstream from Idaho Highway 200 bridge, 1 mi upstream from mouth.

DRAINAGE AREA.--115 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1988 to September 1990, June 1991 to current year. Miscellaneous measurements made at this site 1974-78, 1987-88.

GAGE.--Water-stage recorder. Datum of gage is 2,093.66 ft above sea level.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,970 ft^3/s Feb. 9, 1996; maximum gage height, 10.81 ft, June 1, 1997; no flow Sept. 14-30, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.-Indirect determination for peak of May 27 or 28, 1948 was 5,100 ft^3/s, 5 mi upstream. Indirect determination for peak of January 1974 was 5,530 ft^3/s, 5 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,050 ft^3/s Apr. 28; no flow Sept. 14-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	179	34	14	8.5	5.4	5.4	187	934	810	167	25	3.9
2	66	30	14	8.1	6.2	5.3	173	741	921	152	23	3.6
3	45	27	13	7.8	6.7	5.5	171	642	629	137	21	3.4
4	35	33	13	8.5	7.6	6.0	153	640	554	124	20	3.1
5	29	49	12	8.5	7.6	6.3	144	800	507	113	18	2.9
6	26	41	12	9.8	7.7	6.6	139	717	538	105	17	2.6
7	23	33	11	12	7.8	7.1	136	723	488	95	16	2.2
8	21	32	11	12	7.3	8.5	163	883	464	85	15	1.9
9	19	30	11	10	6.2	20	149	1150	462	77	14	1.4
10	18	26	11	11	5.2	31	147	1200	414	71	13	.82
11	17	21	10	11	4.8	31	140	1220	357	66	13	.51
12	16	22	9.5	11	5.3	30	128	1420	487	62	12	.20
13	15	22	8.1	11	5.9	36	128	1880	439	57	11	.06
14	15	20	6.9	10	6.4	45	118	1790	772	52	11	.00
15	14	19	6.1	9.6	6.7	43	112	1930	673	48	10	.00
16	14	19	5.9	9.2	6.7	42	115	1680	550	50	9.5	.00
17	13	18	5.7	8.6	6.4	40	146	1290	484	49	8.8	.00
18	15	17	5.7	7.9	6.2	40	203	1100	429	44	8.2	.00
19	16	17	6.3	7.9	6.0	101	206	1030	388	40	7.7	.00
20	17	16	7.1	8.0	6.0	131	227	1010	351	37	7.2	.00
21	103	15	7.8	8.1	6.0	118	236	1020	323	35	6.7	.00
22	66	15	7.7	8.0	6.2	113	251	1270	298	34	6.5	.00
23	48	14	7.4	7.9	6.2	116	300	1730	270	33	6.3	.00
24	40	13	7.6	7.7	6.4	132	370	2030	242	31	5.8	.00
25	35	14	7.5	7.4	6.5	187	604	1980	234	29	5.6	.00
26	32	14	7.9	6.9	6.6	303	1000	1730	209	27	5.7	.00
27	30	16	8.8	6.9	6.3	259	1400	1590	226	25	5.5	.00
28	29	16	9.5	6.5	5.9	226	2050	1490	258	26	5.2	.00
29	39	15	9.7	6.0	---	201	1560	1100	207	45	4.8	.00
30	34	15	9.4	5.6	---	186	1140	794	183	32	4.5	.00
31	32	---	9.0	5.3	---	174	---	719	---	27	4.1	---
TOTAL	1101	673	285.6	266.7	178.2	2655.7	11996	38233	13167	1975	341.1	26.59
MEAN	35.5	22.4	9.21	8.60	6.36	85.7	400	1233	439	63.7	11.0	.89
MAX	179	49	14	12	7.8	303	2050	2030	921	167	25	3.9
MIN	13	13	5.7	5.3	4.8	5.3	112	640	183	25	4.1	.00
AC-FT	2180	1330	566	529	353	5270	23790	75840	26120	3920	677	53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2001, BY WATER YEAR (WY)

MEAN	92.7	294	247	180	258	294	805	1473	1008	218	38.6	27.9
MAX	381	1374	1242	424	1133	539	1203	1864	1899	597	102	122
(WY)	1998	1996	1996	1990	1996	1995	1989	1997	1997	1999	1993	1997
MIN	7.62	22.4	9.21	8.60	6.36	85.7	400	1031	230	58.2	11.0	.89
(WY)	1992	2001	2001	2001	2001	2001	2001	1994	1992	1992	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1989 - 2001	
ANNUAL TOTAL	147081.2		70898.89			
ANNUAL MEAN	402		194		410	
HIGHEST ANNUAL MEAN					716	1996
LOWEST ANNUAL MEAN					194	2001
HIGHEST DAILY MEAN	3790	May 22	2050	Apr 28	4970	Feb 9 1996
LOWEST DAILY MEAN	5.7	Dec 17	.00	Sep 14	.00	Sep 14 2001
ANNUAL SEVEN-DAY MINIMUM	6.2	Dec 14	.00	Sep 14	.00	Sep 14 2001
ANNUAL RUNOFF (AC-FT)	291700		140600		297400	
10 PERCENT EXCEEDS	1400		718		1260	
50 PERCENT EXCEEDS	103		19		140	
90 PERCENT EXCEEDS	11		5.3		16	

PEND OREILLE RIVER BASIN

12392155 LIGHTNING CREEK AT CLARK FORK, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1975 to September 1976, August 1978, September 1987 to August 1996, July 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)
NOV													
09...	1015	30	27	6.9	0	6.1	12.3	107	11.1	3.21	.746	.9	15.0
DEC													
14...	1145	6.6	26	6.6	-3.0	4.3	12.4	104	10.5	3.11	.665	1.0	16.0
JAN													
25...	1145	7.4	27	7.3	2.0	4.8	11.8	99.2	10.1	2.98	.653	.9	15.7
MAR													
15...	0915	43	31	7.3	4.5	4.0	11.3	92.9	13.1	3.62	.985	1.0	13.3
APR													
11...	1115	139	36	7.0	4.5	3.7	12.2	100	14.7	3.94	1.18	1.0	12.0
MAY													
04...	1315	595	21	7.1	17.0	7.4	11.1	99.8	7.81	2.28	.512	.7	16.6
JUN													
14...	1300	821	16	7.2	13.0	7.2	11.2	100	5.91	1.75	.377	.6	17.5

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	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)	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)
NOV													
09...	.41	1.9	.4	<.2	6.8	23	21	0	1.9	<.001	.083	<.002	<.08
DEC													
14...	.39	2.1	.5	<.2	7.0	18	21	0	.32	<.001	.114	.024	<.08
JAN													
25...	.41	2.2	.4	<.2	6.6	19	21	0	.38	.001	.156	<.002	<.08
MAR													
15...	.40	2.9	.5	<.2	6.6	21	23	0	2.4	<.001	.162	.003	<.08
APR													
11...	.45	2.5	.5	<.2	6.8	32	25	0	12	.001	.140	.002	E.06
MAY													
04...	.26	1.6	.3	<.2	6.0	16	17	0	26	<.001	.247	<.002	E.08
JUN													
14...	.23	1.1	.2	<.2	5.1	18	13	0	40	<.001	.072	.003	E.06

DATE	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV								
09...	<.10	<.004	<.006	<.007	<10	<3.2	1	.08
DEC								
14...	<.10	<.004	<.006	<.007	<10	<3.2	1	.02
JAN								
25...	<.10	E.002	.009	<.007	<10	<3.2	1	.02
MAR								
15...	<.10	E.003	<.006	<.007	<10	<3.2	1	.12
APR								
11...	<.10	E.002	<.006	<.007	<10	E2.5	1	.38
MAY								
04...	<.10	<.004	<.006	<.007	<10	<3.2	1	1.6
JUN								
14...	<.10	.004	<.006	<.007	<10	<3.0	1	2.2

E Estimated value

PEND OREILLE RIVER BASIN

12392500 LAKE PEND OREILLE NEAR HOPE, ID

LOCATION.--Lat 48°16'35", long 116°20'47", in NW¼SE¼NW¼ sec.21, T.57 N., R.1 E., Bonner County, Hydrologic Unit 17010214, 0.5 mi southeast of Trestle Creek and 2.5 mi northwest of Hope.

DRAINAGE AREA.--22,900 mi^2, approximately (natural drainage area above mouth of lake at Sandpoint).

PERIOD OF RECORD.--March 1914 to current year. Published as "at Sandpoint" 1914-22. Records published for both sites September 1921 to September 1922. Published as "at Hope" September 1921 to December 1974.

REVISED RECORDS.--WSP 1122: 1946.

GAGE.--Water-stage recorder. Datum of gage is 2,000.00 ft above sea level; gage readings have been reduced to elevations of that datum. Prior to Oct. 1, 1921, nonrecording gage at Sandpoint at datum 42.18 ft higher. Oct. 1, 1921, to Sept. 30, 1929, nonrecording gage "at Hope" site at datum 45.47 ft higher than present datum. Oct. 1, 1929, to Sept. 30, 1950, water-stage recorder "at Hope" site at datum 0.20 ft lower than present datum. Oct. 1, 1950, to Dec. 23, 1974, water-stage recorder "at Hope" site at present datum. Add 2,000 ft to gage heights to obtain elevations.

REMARKS.--Station equipment includes satellite telemetry. Regulation at Albeni Falls Dam beginning June 4, 1952. Contents shown is that above elevation 2,044.8 ft, but does not include storage in Pend Oreille River above Albeni Falls Dam.

COOPERATION.--Capacity table provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 2,071.62 ft, present datum, June 9, 1948, contents, 2,462,000 acre-ft; minimum, 2,046.27 ft, present datum, Feb. 17, 1936, contents, 117,700 acre-ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 2,075.88 ft, present datum, June 1894, contents, 2,905,000 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2,062.53 ft, July 20, 21, contents, 1,564,000 acre-ft; minimum elevation, 2,053.07 ft, Nov. 13, contents, 700,000 acre-ft.

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

2,052	605,800	2,058	1,143,000
2,054	782,500	2,060	1,327,000
2,056	961,600	2,062	1,514,000
		2,064	1,704,000

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59.78	55.03	53.42	53.25	53.59	53.53	53.76	54.18	59.56	62.22	62.42	62.38
2	59.62	54.85	53.39	53.20	53.56	53.55	53.79	54.10	59.51	62.25	62.37	62.33
3	59.49	54.74	53.40	53.22	53.45	53.54	53.83	53.99	59.52	62.25	62.47	62.33
4	59.39	54.54	53.38	53.27	53.45	53.54	53.78	54.04	59.61	62.30	62.45	62.33
5	59.30	54.31	53.36	53.29	53.39	53.55	53.73	54.10	59.80	62.46	62.42	62.30
6	59.17	54.14	53.34	53.23	53.31	53.62	53.73	54.21	59.95	62.44	62.48	62.27
7	58.98	54.04	53.37	53.16	53.25	53.66	53.71	54.41	60.09	62.31	62.46	62.25
8	58.80	53.99	53.43	53.24	53.29	53.71	53.73	54.63	60.28	62.34	62.41	62.24
9	58.66	53.81	53.49	53.24	53.30	53.75	53.71	54.88	60.33	62.34	62.39	62.26
10	58.52	53.54	53.49	53.22	53.27	53.75	53.76	55.11	60.32	62.33	62.43	62.25
11	58.39	53.29	53.28	53.24	53.24	53.75	53.84	55.32	60.49	62.26	62.38	62.28
12	58.27	53.13	53.21	53.29	53.22	53.75	53.90	55.42	60.72	62.31	62.36	62.28
13	58.15	53.13	53.24	53.32	53.26	53.74	53.94	55.57	60.92	62.41	62.39	62.30
14	57.92	53.12	53.39	53.36	53.27	53.76	53.83	55.90	61.14	62.40	62.37	62.31
15	57.69	53.23	53.44	53.44	53.30	53.85	53.71	56.24	61.34	62.38	62.37	62.25
16	57.61	53.35	53.38	53.53	53.33	53.88	53.66	56.56	61.40	62.41	62.36	62.18
17	57.47	53.38	53.36	53.55	53.31	53.84	53.69	56.87	61.47	62.39	62.37	62.10
18	57.36	53.38	53.44	53.59	53.33	53.79	53.69	57.19	61.67	62.41	62.34	62.00
19	57.26	53.37	53.44	53.63	53.35	53.82	53.71	57.44	61.78	62.42	62.27	61.89
20	57.20	53.35	53.47	53.52	53.35	53.81	53.70	57.51	61.87	62.50	62.24	61.76
21	57.05	53.40	53.47	53.44	53.36	53.77	53.65	57.54	61.98	62.48	62.27	61.70
22	56.85	53.46	53.42	53.40	53.40	53.75	53.61	57.63	62.02	62.47	62.30	61.59
23	56.74	53.48	53.39	53.39	53.44	53.71	53.64	57.76	61.90	62.41	62.33	61.49
24	56.63	53.37	53.47	53.40	53.44	53.64	53.63	57.95	61.87	62.41	62.34	61.44
25	56.53	53.28	53.42	53.42	53.44	53.73	53.65	58.11	61.91	62.38	62.32	61.39
26	56.38	53.30	53.40	53.47	53.46	53.73	53.72	58.26	61.94	62.36	62.37	61.35
27	56.15	53.37	53.39	53.46	53.43	53.78	53.85	58.54	62.02	62.38	62.38	61.28
28	55.84	53.41	53.42	53.40	53.48	53.82	53.95	58.92	62.09	62.40	62.42	61.26
29	55.58	53.40	53.49	53.42	---	53.86	54.02	59.11	62.19	62.33	62.40	61.19
30	55.36	53.45	53.39	53.50	---	53.81	54.11	59.32	62.19	62.37	62.41	61.04
31	55.19	---	53.36	53.56	---	53.82	---	59.46	---	62.41	62.41	---
MEAN	57.66	53.65	53.40	53.38	53.37	53.73	53.77	56.46	61.06	62.37	62.38	61.93
MAX	59.78	55.03	53.49	53.63	53.59	53.88	54.11	59.46	62.19	62.50	62.48	62.38
MIN	55.19	53.12	53.21	53.16	53.22	53.53	53.61	53.99	59.51	62.22	62.24	61.04
†	888800	733800	725500	743300	736200	766500	792300	1277000	1532000	1553000	1553000	1424000
‡	-440200	-155300	-8000	17800	-7100	30300	25800	484700	255000	21000	0	-129000

CAL YR 2000 MEAN 57.09 MAX 62.55 MIN 53.10 ‡ 5300
WTR YR 2001 MEAN 56.95 MAX 62.50 MIN 53.12 ‡ 95000

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

PEND OREILLE RIVER BASIN

12393000 PRIEST LAKE AT OUTLET, NEAR COOLIN, ID

LOCATION.--Lat 48°29'36", long 116°52'58", in NE¼NE¼SW¼ sec.5, T.59 N., R.4 W., Bonner County, Hydrologic Unit 17010215, 0.5 mi east of outlet, 1.8 mi northwest of Coolin, and 44 mi upstream from mouth of Priest River.

DRAINAGE AREA.--572 mi^2.

PERIOD OF RECORD.--June 1911 to September 1913 (fragmentary gage-height records at Coolin, published as part of records for "Priest River at outlet of Priest Lake, at Coolin"), April 1928 to July 1950 (gage-height record only), August 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,434.64 ft above sea level. June 18, 1911 to Sept. 30, 1913, nonrecording gages at Coolin at different datums. Apr. 21, 1928 to Oct. 18, 1939, nonrecording gage at site 400 ft north of lake outlet at present datum.

REMARKS.--Flow from Priest Lake is regulated to hold lake at heights desirable for recreation interests during summer months and storage is released for power use downstream during winter months. Storage began Aug. 9, 1950. Prior to Aug. 9, 1950, some regulation resulted from logging operations in the outlet channel. Figures given herein represent contents above gage height of about -2 ft. Capacity table is based on area measured from Priest Lake quadrangle (scale 1:250,000) and reconnaissance survey of marginal areas and is only approximate. New dam completed Nov. 27, 1978.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.68 ft, June 20, 1974, contents, 207,500 acre-ft; minimum, -0.46 ft Jan. 5, 6, 1977, Feb. 26, Mar. 2, 2001, contents, 37,500 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.51 ft, May 30, contents, 131,400 acre-ft; minimum, -0.46 ft, Feb. 26, Mar. 2, contents, 37,500 acre-ft.

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

-0.50	36,600	2.0	95,500
0.0	48,300	3.0	119,300
1.0	71,900	4.0	143,100

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.95	1.20	.19	-.04	-.27	-.41	.33	1.60	3.39	3.12	3.16	2.89
2	2.95	1.11	.24	-.06	-.28	-.40	.35	1.66	3.36	3.11	3.14	2.91
3	2.94	1.01	.22	-.08	-.26	-.41	.43	1.67	3.34	3.11	3.15	2.90
4	2.95	.98	.24	-.06	-.25	-.40	.44	1.63	3.35	3.07	3.17	2.90
5	2.94	.90	.19	-.07	-.25	-.39	.46	1.69	3.29	3.03	3.16	2.89
6	2.95	.83	.18	-.08	-.28	-.37	.51	1.66	3.26	2.99	3.16	2.85
7	2.95	.77	.20	-.06	-.28	-.38	.55	1.67	3.24	2.99	3.15	2.89
8	2.95	.70	.15	-.10	-.31	-.34	.61	1.67	3.22	2.96	3.15	2.86
9	3.00	.63	.15	-.08	-.32	-.34	.63	1.71	3.22	2.97	3.12	2.86
10	2.98	.56	.17	-.13	-.32	-.30	.67	1.74	3.20	2.98	3.10	2.86
11	2.96	.47	.12	-.10	-.34	-.30	.71	1.77	3.22	3.01	3.07	2.86
12	3.00	.44	.10	-.14	-.33	-.30	.72	1.79	3.27	2.99	3.04	2.88
13	2.97	.38	.12	-.11	-.36	-.27	.76	1.94	3.34	3.02	3.03	2.88
14	3.00	.35	.10	-.16	-.40	-.27	.78	2.14	3.41	3.01	3.04	2.87
15	2.99	.32	.08	-.16	-.37	-.26	.80	2.28	3.43	3.00	3.03	2.88
16	2.97	.24	.12	-.18	-.38	-.27	.84	2.38	3.39	3.04	3.02	2.88
17	2.91	.20	.09	-.18	-.42	-.23	.86	2.42	3.30	3.01	3.01	2.90
18	2.85	.17	.08	-.19	-.41	-.17	.95	2.42	3.24	3.02	2.96	2.88
19	2.80	.19	.08	-.20	-.39	-.15	.96	2.39	3.20	3.05	2.96	2.88
20	2.71	.17	.05	-.19	-.41	-.15	.96	2.41	3.17	3.06	2.94	2.88
21	2.55	.18	.07	-.18	-.41	-.12	.91	2.42	3.14	3.10	2.92	2.87
22	2.44	.16	.08	-.18	-.42	-.08	.86	2.44	3.11	3.12	2.92	2.87
23	2.28	.14	.06	-.20	-.42	-.07	.84	2.57	3.06	3.12	2.96	2.88
24	2.14	.14	.05	-.22	-.44	-.06	.83	2.78	3.04	3.14	2.96	2.88
25	1.99	.15	.04	-.20	-.42	.01	.82	3.02	3.12	3.12	2.95	2.90
26	1.85	.20	.06	-.22	-.42	.10	.88	3.21	3.11	3.13	2.95	2.89
27	1.73	.19	.05	-.24	-.44	.13	.96	3.36	3.18	3.11	2.93	2.93
28	1.63	.21	.01	-.24	-.43	.18	1.20	3.45	3.15	3.18	2.94	2.92
29	1.50	.24	.01	-.28	---	.23	1.41	3.50	3.16	3.16	2.94	2.92
30	1.39	.23	-.01	-.26	---	.24	1.55	3.46	3.17	3.16	2.94	2.92
31	1.30	---	-.04	-.30	---	.25	---	3.40	---	3.15	2.92	---
MEAN	2.57	.45	.10	-.16	-.36	-.17	.79	2.33	3.24	3.07	3.03	2.89
MAX	3.00	1.20	.24	-.04	-.25	.25	1.55	3.50	3.43	3.18	3.17	2.93
MIN	1.30	.14	-.04	-.30	-.44	-.41	.33	1.60	3.04	2.96	2.92	2.85
†	79000	53700	47400	41300	38200	54200	84900	128800	123300	122800	117400	117400
‡	-37900	-25300	-6300	-6100	-3100	16000	30700	43900	-5500	-500	-5400	0

CAL YR 2000 MEAN 1.76 MAX 3.86 MIN -.06 ‡ -9400
WTR YR 2001 MEAN 1.49 MAX 3.50 MIN -.44 ‡ 500

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



Warmspring Creek near Mackay, Idaho. (Dec. 8, 1938)

PEND OREILLE RIVER BASIN

12394000 PRIEST RIVER NEAR COOLIN, ID

LOCATION.--Lat 48°27'07", long 116°53'58", in SE¼SW¼NE¼ sec.19, T.59 N., R.4 W., Bonner County, Hydrologic Unit 17010215, in Dickensheet campground, on left bank 190 ft downstream from Dickensheet Bridge, 2.5 mi downstream from Binarch Creek, 3 mi southwest of Coolin, 5.2 mi downstream from outlet of Priest Lake, and at mile 38.8.

DRAINAGE AREA.--611 mi^2.

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,338.24 ft above sea level. Prior to Feb. 23, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion above station. Flow partly regulated by Priest Lake (sta 12393000) 5.2 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,280 ft^3/s June 3, 1997, gage height, 8.02 ft; maximum gage height, 8.44 ft, June 18, 1974; minimum observed discharge, 26 ft^3/s Sept. 25, 1958, gage height, 1.16 ft, but may have been less Sept. 11, 1953 and Sept. 24, 1958, when stage was below intake.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 29, 1948, reached a stage of 8.40 ft, present site and datum, discharge, 8,670 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,010 ft^3/s May 18, 19; minimum daily, 62 ft^3/s Sept. 19-25, 27-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	1560	229	321	293	111	124	2060	2550	905	235	142
2	115	1440	229	321	292	111	124	2110	2160	903	234	104
3	115	1360	229	318	291	111	128	2110	2000	901	235	68
4	115	1310	255	318	297	111	128	2100	e2000	901	235	66
5	115	1250	325	318	296	111	128	2100	e2000	898	235	65
6	115	1160	325	318	294	111	129	2100	e2000	896	235	65
7	115	1080	325	316	291	111	130	2100	e2000	892	309	65
8	115	1020	325	314	291	111	131	2100	1910	674	345	63
9	115	964	325	314	288	111	133	2110	1720	421	391	63
10	115	890	325	314	285	111	133	2150	1720	341	416	63
11	115	834	325	314	284	111	133	2170	1700	323	416	63
12	115	787	325	313	280	111	133	2220	1720	237	418	63
13	115	756	325	311	278	112	133	2310	1880	235	349	63
14	115	722	325	310	275	113	133	2500	2170	233	265	63
15	221	671	325	308	275	113	133	2720	2170	232	235	63
16	789	637	325	306	268	114	133	2890	2620	233	234	63
17	800	604	325	306	264	115	135	2990	2830	232	232	63
18	936	414	325	306	264	116	137	3010	2800	232	232	63
19	1570	235	325	306	263	118	140	3010	2260	232	229	62
20	1720	233	325	306	258	117	754	2610	1760	232	184	62
21	2220	230	329	306	258	117	1270	2400	1600	232	146	62
22	2150	229	329	306	259	117	1240	2400	1590	233	144	62
23	2150	229	329	303	256	118	1210	1730	1590	232	145	62
24	2260	226	328	302	253	118	1170	1050	1140	232	143	62
25	2160	226	325	302	226	121	1160	1200	901	232	142	62
26	2060	227	326	301	116	121	1170	1420	901	232	142	63
27	1970	229	326	299	114	122	1250	1610	905	232	142	62
28	1900	228	325	299	112	123	1490	1900	909	234	142	62
29	1830	229	323	299	---	124	1740	2170	910	235	142	62
30	1730	229	321	295	---	124	1920	2570	909	235	142	62
31	1650	---	321	295	---	124	---	2730	---	234	142	---
TOTAL	29727	20209	9724	9565	7221	3579	16872	68650	53325	12716	7236	2013
MEAN	959	674	314	309	258	115	562	2215	1778	410	233	67.1
MAX	2260	1560	329	321	297	124	1920	3010	2830	905	418	142
MIN	115	226	229	295	112	111	124	1050	901	232	142	62
AC-FT	58960	40080	19290	18970	14320	7100	33470	136200	105800	25220	14350	3990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2001, BY WATER YEAR (WY)

MEAN	937	1034	727	619	624	774	1621	3895	3560	1019	315	265
MAX	1518	2385	2028	1868	1935	1887	2571	6453	7207	2739	727	1219
(WY)	1982	1984	1996	1974	1951	1983	1960	1997	1974	1955	1983	1959
MIN	258	294	237	203	250	115	515	1242	929	239	95.6	67.1
(WY)	1950	1949	1992	1993	1977	2001	1977	1977	1992	1985	1994	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1949 - 2001	
ANNUAL TOTAL	456682		240837			
ANNUAL MEAN	1248		660		1284	
HIGHEST ANNUAL MEAN					2174	1974
LOWEST ANNUAL MEAN					534	1977
HIGHEST DAILY MEAN	5020	May 26	3010	May 18	9120	Jun 3 1997
LOWEST DAILY MEAN	99	Sep 1	62	Sep 19	38	Jul 28 1951
ANNUAL SEVEN-DAY MINIMUM	100	Sep 1	62	Sep 19	38	Jul 27 1951
ANNUAL RUNOFF (AC-FT)	905800		477700		930000	
10 PERCENT EXCEEDS	4080		2100		3480	
50 PERCENT EXCEEDS	664		295		735	
90 PERCENT EXCEEDS	117		111		197	

e Estimated

PEND OREILLE RIVER BASIN

12395000 PRIEST RIVER NEAR PRIEST RIVER, ID

LOCATION.--Lat 48°12'31", long 116°54'49", in NW¼SW¼NW¼ sec.12, T.56 N., R.5 W., Bonner County, Hydrologic Unit 17010215, on right bank, 500 ft downstream from Saddler Creek, 0.4 mi downstream from Lower West Branch, 2.7 mi north of Priest River, and at mile 3.8.

DRAINAGE AREA.--902 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1903 to April 1905, November 1910 to April 1911, May to December 1923, February 1929 to current year. Prior to October 1930, published as "at Priest River."

REVISED RECORDS.--WSP 572: 1903-5.

GAGE.--Water-stage recorder. Elevation of gage is 2,090 ft above sea level, from river-profile map. Prior to May 15, 1929, and Sept. 18, 1929, to Apr. 28, 1930, nonrecording gages at site 3 mi downstream at elevation of about 40 ft lower. June 4 to Sept. 17, 1929, and Apr. 29 to Sept. 11, 1930, nonrecording gages at or near present site at present datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Some regulation on tributaries and, since Aug. 9, 1950, flow partly regulated by Priest Lake (see sta 12393000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1913-49), 10,500 ft^3/s May 29, 30, 1948; maximum gage height, 8.97 ft, May 29, 1948; minimum daily, 191 ft^3/s Jan 7, 1937. Maximum discharge since regulation (1950-2001), 10,800 ft^3/s May 18, 1997, gage height, 9.13 ft; minimum, 150 ft^3/s Nov. 29, 1979, gage height, 0.38 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,810 ft^3/s May 16, gage height, 4.55 ft; minimum daily, 160 ft^3/s Sept. 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	282	1770	388	477	440	249	447	2930	3110	1100	365	244
2	275	1670	390	476	447	262	428	2850	2830	1080	362	243
3	266	1580	388	472	441	250	456	2770	2450	1070	358	214
4	263	1550	382	474	453	246	458	2710	2410	1070	356	173
5	263	1560	436	476	447	252	428	2680	2390	1060	360	168
6	263	1440	487	477	e420	255	451	2670	2380	1060	358	168
7	263	1350	487	472	e400	259	488	2630	2360	1060	351	167
8	263	1290	488	460	e380	271	523	2620	2230	1040	450	166
9	263	1230	486	471	e400	288	520	2630	1850	709	462	166
10	263	1150	483	464	e420	297	488	2650	1840	527	528	165
11	263	1060	e460	461	e420	300	487	2680	1840	504	534	165
12	263	1020	e420	461	e420	300	464	2740	1870	455	534	165
13	263	980	e440	461	e420	313	449	2860	1870	390	534	165
14	263	923	e460	461	417	340	442	3090	2290	384	431	163
15	263	886	e480	460	416	336	426	3590	2330	379	363	161
16	593	855	e480	446	e400	341	423	3760	2380	382	347	160
17	999	820	e480	457	e400	328	437	3770	2760	384	344	166
18	1000	790	e480	456	408	330	477	3730	2720	380	337	166
19	1480	469	e500	458	400	492	516	3660	2540	374	333	165
20	1680	390	e500	457	399	536	515	3480	2010	369	332	163
21	2250	384	e500	457	399	474	1610	3030	1710	365	284	162
22	2320	379	e500	458	408	442	1620	3000	1690	377	257	165
23	2250	379	e520	449	406	426	1610	2850	1680	381	261	164
24	2380	379	e520	444	403	419	1610	1840	1610	371	266	163
25	2340	380	527	459	399	469	1610	1790	1160	365	261	162
26	2250	391	523	452	344	594	1680	1980	1130	361	255	169
27	2170	425	514	444	254	570	1790	2170	1140	360	249	177
28	2100	400	480	443	249	538	2180	2380	1140	374	247	177
29	2050	395	477	442	---	496	2580	2670	1120	421	247	168
30	1960	396	477	437	---	463	2780	2900	1100	385	245	166
31	1860	---	477	444	---	447	---	3200	---	370	245	---
TOTAL	33661	26691	14630	14226	11210	11583	28393	88310	59940	17907	10856	5186
MEAN	1086	890	472	459	400	374	946	2849	1998	578	350	173
MAX	2380	1770	527	477	453	594	2780	3770	3110	1100	534	244
MIN	263	379	382	437	249	246	423	1790	1100	360	245	160
AC-FT	66770	52940	29020	28220	22240	22970	56320	175200	118900	35520	21530	10290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1949, BY WATER YEAR (WY) (UNREGULATED)

MEAN	448	642	812	806	734	1006	2486	4737	3632	1448	619	424
MAX	1230	1785	2574	2742	1884	2008	4452	7422	6635	2503	1117	721
(WY)	1948	1948	1942	1934	1934	1934	1934	1946	1948	1933	1948	1941
MIN	253	227	293	284	360	459	958	2712	1611	751	372	266
(WY)	1937	1937	1937	1937	1936	1937	1929	1930	1930	1940	1940	1931

SUMMARY STATISTICS	[a] WATER YEARS 1913 - 1949	
ANNUAL TOTAL	576217	
ANNUAL MEAN	1503	
HIGHEST ANNUAL MEAN	2217	1948
LOWEST ANNUAL MEAN	824	1930
HIGHEST DAILY MEAN	10400	May 29 1948
LOWEST DAILY MEAN	191	Jan 7 1937
ANNUAL SEVEN-DAY MINIMUM	215	Nov 30 1936
ANNUAL RUNOFF (AC-FT)	1089000	
10 PERCENT EXCEEDS	3960	
50 PERCENT EXCEEDS	780	
90 PERCENT EXCEEDS	333	

PEND OREILLE RIVER BASIN

12395000 PRIEST RIVER NEAR PRIEST RIVER, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2001, BY WATER YEAR (WY) (REGULATED, UNADJUSTED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1094	1300	1030	922	1023	1393	2635	4860	4208	1305	476	407
MAX	1768	2951	2612	2960	2794	3629	4250	8405	8528	3144	1026	1350
(WY)	1998	1984	1996	1974	1951	1982	1997	1997	1974	1974	1983	1959
MIN	426	492	357	310	350	374	810	1563	1167	399	206	173
(WY)	1950	1980	1993	1993	1985	2001	1977	1977	1992	1977	1994	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		[b] WATER YEARS 1950 - 2001	
ANNUAL TOTAL	621528		322593			
ANNUAL MEAN	1698		884		1722	
HIGHEST ANNUAL MEAN					2947	1974
LOWEST ANNUAL MEAN					711	1977
HIGHEST DAILY MEAN	5900	May 24	3770	May 17	10700	May 18 1997
LOWEST DAILY MEAN	247	Aug 28	160	Sep 16	160	Feb 6 1989
ANNUAL SEVEN-DAY MINIMUM	248	Aug 27	163	Sep 15	163	Sep 15 2001
ANNUAL RUNOFF (AC-FT)	1233000		639900		1247000	
10 PERCENT EXCEEDS	4790		2380		4390	
50 PERCENT EXCEEDS	970		458		1070	
90 PERCENT EXCEEDS	280		249		334	

a Unregulated
b Regulated, unadjusted.
e Estimated

PEND OREILLE RIVER BASIN

12395000 PRIEST RIVER NEAR PRIEST RIVER, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to 1996, April to September 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to September 1998, May to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 25.3 °C July 27, 1998.

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles.
MESH SIZE.--425 um.

AVERAGE DEPTH.--0.27 m.

AVERAGE PERCENT SHADING.--20.

AVERAGE VELOCITY.--0.73 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--3-4.

PERCENT FINES AVERAGE.--10.

BIOLOGICAL DATA, SEPTEMBER 2000
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE Sept. 6	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION
NON-INSECTS			
Uncinais uncinata		5	0.13
Tubificidae		5	0.13
Ferrissia rowelli		5	0.13
Acari		62	1.74
ODONATA			
Ophiogomphus		24	0.67
EPHEMEROPTERA			
Acentrella insignificans		43	1.2
Baetis tricaudatus		178	4.95
Diphetor hageni		5	0.13
Drunella grandis		53	1.47
Ephemerella inermis/infrequens		72	2.01
Rhithrogena		53	1.47
PLECOPTERA			
Chloroperlidae		19	0.53
Claassenia sabulosa		14	0.4
Isogenoides		5	0.13
Pteronarcys californica		10	0.27
TRICHOPTERA			
Brachycentrus occidentalis		48	1.34
Glossosoma		34	0.94
Protoptila		5	0.13
Cheumatopsyche		312	8.69
Hydropsyche		1171	32.62
Hydroptila		19	0.53
Leucotrichia		10	0.27
Neureclipsis		14	0.4
Psychomyia		58	1.6
COLEOPTERA			
Cleptelmis addenda		5	0.13
Optioservus		14	0.4
Zaitzevia		134	3.74
DIPTERA			
Hemerodromia		14	0.4
Simulium		221	6.15
Antocha		67	1.87
CHIRONOMIDAE			
Chironomidae-pupae		24	0.67
Cladotanytarsus		14	0.4
Cricotopus		19	0.53
Eukiefferiella		77	2.14
Microtendipes		19	0.53
Orthocladius Complex		62	1.74
Potthastia Gaedii group		43	1.2
Rheotanytarsus		158	4.41
Robackia		19	0.53
Sublettea		5	0.13
Synorthocladius		14	0.4
Thienemannimyia group		5	0.13
Tvetenia Discoloripes group		451	12.57

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 43
TOTAL INDIVIDUALS 3,590

PEND OREILLE RIVER BASIN

12395500 PEND OREILLE RIVER AT NEWPORT, WA

LOCATION.--Lat 48°10'56", long 117°02'00", in SE¼SE¼SW¼ sec.24, T.56 N., R.6 W. (Boise Meridian), Bonner County, Hydrologic Unit 17010216, on left bank, at Newport, 0.2 mi upstream from bridge on U.S. Highway 2, 0.2 mi east of Idaho-Washington State line, 1.6 mi downstream from Albeni Falls Dam, and at mile 88.5.

DRAINAGE AREA.--24,200 mi^2, approximately.

PERIOD OF RECORD.--June 1903 to September 1941, October 1952 to current year. Prior to October 1921, published as "Clark Fork at Newport, Wash.," October 1921 to September 1937, as "Clark Fork at Priest River, Idaho," and October 1937 to September 1941, as "Pend Oreille River at Priest River, Idaho."

REVISED RECORDS.--WSP 532: 1903-11.

GAGE.--Water-stage recorder. Datum of gage is 1,999.7 ft above sea level. Prior to Sept. 22, 1928, nonrecording gages at Priest River, Newport, or Metaline Falls at various datums (see description, WSP 532, p. 92). Sept. 22, 1928, to Sept. 30, 1935, at datum 40.44 ft higher, and Oct. 1, 1935, to Sept. 30, 1941, water-stage recorder at datum 0.30 ft higher. Since December 1952, auxiliary water-stage recorder 2.74 mi downstream from base gage.

REMARKS.--No estimated daily discharges. Records good except for daily discharges Oct. 1-3 and discharges below 8,000 ft^3/s, which are fair. Flow regulated at Albeni Falls Dam and affected by storage in Pend Oreille Lake (see sta 12392500), Flathead Lake, Hungry Horse Reservoir, and several smaller reservoirs. Diversions above station for irrigation of about 354,000 acres. Stage-discharge relation affected by backwater from Box Canyon dam 54 mi downstream. Discharge computed from slope and conveyance of reach between base and auxiliary gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136,000 ft^3/s June 15, 1933, June 21, 1933, June 12, 1972; minimum, 1,280 ft^3/s Sept. 1, 1961,

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of about 64.0 ft, present site and datum, (from water surface profiles) discharge, about 200,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 29,500 ft^3/s May 3; minimum daily, 5,680 ft^3/s Mar. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17500	24400	12700	13800	10700	6310	10200	28800	28100	18300	8740	6930
2	18300	24600	12500	13800	10800	6240	10200	29200	27600	19700	8690	6860
3	17900	24100	13200	13100	11200	6280	10300	29500	27800	21300	8530	6620
4	17700	24400	13500	12800	10200	5830	10300	27000	25200	20600	8490	6330
5	17500	24300	13300	12900	10100	5680	10300	18500	23100	18100	8430	6300
6	17300	24500	13300	12900	9680	5880	10400	18200	23600	16900	8410	6110
7	17400	22400	11700	13100	8390	6110	10300	16700	22400	17600	9440	6040
8	17600	22400	10200	13100	8000	6060	10300	16200	20800	17700	9720	6040
9	17500	24100	10200	13000	7860	6100	10300	16200	21000	17400	8810	6060
10	17500	26000	14400	12600	7660	6570	10100	15800	20900	17000	8250	6060
11	17400	22900	24400	11400	7650	6670	10200	21100	20900	14100	8480	5990
12	17400	17500	20700	10500	7610	6710	10200	21800	20800	11500	8670	5880
13	17600	14100	13900	10200	6500	6650	10900	21700	20900	9790	8480	6070
14	17400	11900	12600	9870	5930	7200	12800	24400	21000	9410	8190	6050
15	17400	10300	12300	10400	6160	7420	12700	28800	21300	9330	8630	9200
16	17300	10200	13000	11800	6370	8350	11300	28900	20900	9440	8370	10700
17	17500	10500	12800	13700	6330	8820	10300	28800	20500	9260	7830	10700
18	17400	10200	12700	14200	6310	8740	10400	28700	20500	8740	7470	11000
19	17300	10400	14200	13600	6330	9320	10500	28500	22100	8390	7390	11000
20	18800	12300	14800	13700	6420	9540	10400	28400	23100	8590	7350	11000
21	19700	13300	15100	13900	6270	9510	10400	28300	23000	9620	6300	10600
22	19600	12900	13200	13700	6260	9330	10400	28400	22900	10400	6150	10600
23	19800	14100	11800	13300	6250	9200	10500	28100	23000	11600	6180	10600
24	20000	13700	12800	12300	6300	9130	10500	26400	23000	11200	5940	9060
25	19900	12400	15300	10900	6220	9170	10200	26700	23300	10500	5990	8560
26	21600	11300	17100	10600	6100	9290	10200	26700	23400	9760	5930	8450
27	24300	11000	16400	10600	6130	9460	10200	26900	23200	8800	6140	8470
28	25200	11900	15500	10400	6140	9360	11000	26600	22900	8910	6350	8420
29	25400	12800	14400	10400	---	9360	15400	27600	21700	8540	6720	8410
30	25900	12500	14000	10600	---	10100	26800	28700	19700	8560	7030	12800
31	24900	---	14000	10700	---	10300	---	27800	---	8600	6880	---
TOTAL	598000	497400	436000	377870	209870	244690	338000	779400	678600	389640	237980	246910
MEAN	19290	16580	14060	12190	7495	7893	11270	25140	22620	12570	7677	8230
MAX	25900	26000	24400	14200	11200	10300	26800	29500	28100	21300	9720	12800
MIN	17300	10200	10200	9870	5930	5680	10100	15800	19700	8390	5930	5880
AC-FT	1186000	986600	864800	749500	416300	485300	670400	1546000	1346000	772900	472000	489700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2001, BY WATER YEAR (WY)

MEAN	17640	18450	16360	15570	16410	19100	27360	49680	61730	32180	14170	13500
MAX	31330	32280	36790	40010	41290	42260	56940	97850	114900	73730	45210	21990
(WY)	1960	1960	1996	1934	1996	1996	1956	1997	1933	1907	1907	1907
MIN	6208	6049	5987	4271	4380	6622	5507	15320	15220	7295	5875	6353
(WY)	1932	1937	1937	1937	1936	1937	1977	1977	1977	1977	1988	1931

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1903 - 2001	
ANNUAL TOTAL	8013100		5034360			
ANNUAL MEAN	21890		13790		25120	
HIGHEST ANNUAL MEAN					38600	1997
LOWEST ANNUAL MEAN					12920	1941
HIGHEST DAILY MEAN	54400	May 8	29500	May 3	135000	Jun 19 1933
LOWEST DAILY MEAN	6620	Aug 25	5680	Mar 5	2420	Sep 19 1962
ANNUAL SEVEN-DAY MINIMUM	7390	Aug 22	5990	Mar 3	3280	Aug 28 1962
ANNUAL RUNOFF (AC-FT)	15890000		9986000		18200000	
10 PERCENT EXCEEDS	43500		24400		52700	
50 PERCENT EXCEEDS	17600		11300		18900	
90 PERCENT EXCEEDS	11600		6310		8600	

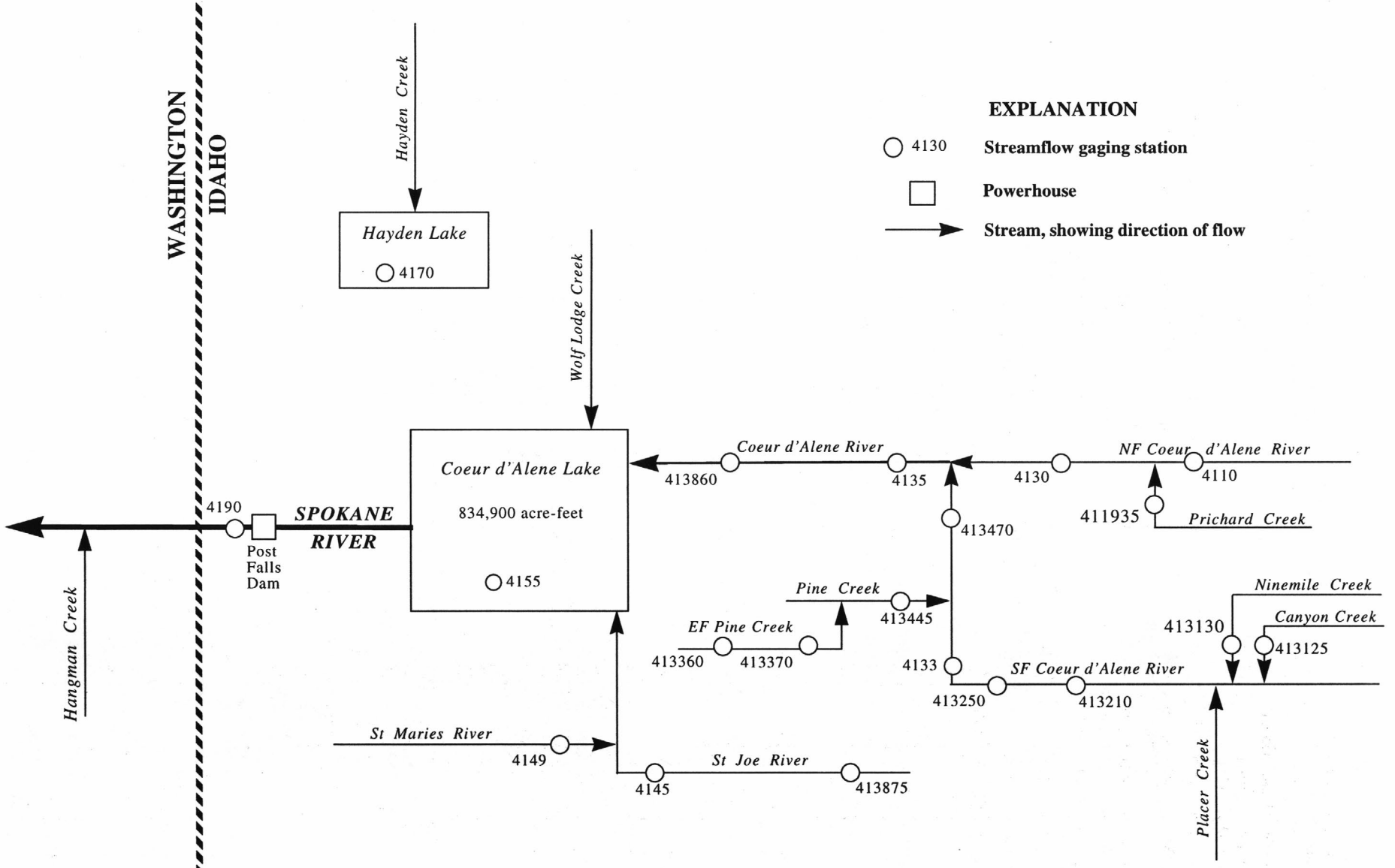


Figure 12. Schematic showing gaging stations in Spokane River basin

SPOKANE RIVER BASIN

12411000 NORTH FORK COEUR D'ALENE RIVER ABOVE SHOSHONE CREEK, NEAR PRICHARD, ID

LOCATION.--Lat 47°42'26", long 115°58'36", in NE¼SE¼SW¼ sec.5, T.50 N., R.4 E., Shoshone County, Hydrologic Unit 17010301, in Idaho Panhandle National Forests, on left bank 0.1 mi downstream from Uranus Creek, 0.5 mi upstream from Shoshone Creek, 3.5 mi north of Prichard, and 200.0 mi upstream from mouth of Spokane River.

DRAINAGE AREA.--335 mi^2.

PERIOD OF RECORD.--December 1950 to current year. Prior to October 1991, published as Coeur d'Alene River above Shoshone Creek near Prichard, Idaho.

GAGE.--Water-stage recorder. Elevation of gage is 2,485 ft above sea level, from river-profile map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. No regulation or diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,000 ft^3/s Jan 15, 1974, gage height, 11.60 ft; minimum, 34 ft^3/s Dec. 26, 1952, gage height, 0.69 ft; minimum gage height, 0.42 ft, Aug. 29 to Sept. 3, Sept. 26-29, Oct. 1, 5, 7, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges above a base discharge of 3,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s	Gage height (ft)
Apr. 28	2215	*3,330	*4.63	No peaks greater than base discharge.			

Minimum daily, 50 ft^3/s Dec. 12, 13, Jan. 8, Feb. 8, 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	280	93	e90	e75	e90	e85	389	2330	397	169	96	60
2	175	91	e85	e75	e90	e95	370	2060	390	161	92	60
3	131	87	e85	e75	e90	e95	357	1680	374	155	87	59
4	112	95	e75	e80	e95	e85	321	1480	379	149	86	58
5	104	137	e70	e95	e90	e85	308	1500	355	142	86	57
6	98	128	e70	e110	e100	e90	309	1500	355	144	83	57
7	93	110	e75	e95	e70	e95	318	1350	326	153	81	59
8	91	102	e75	e50	e50	e110	334	1260	303	139	79	59
9	90	101	e75	e70	e50	e130	317	1350	289	133	77	59
10	87	e90	e70	e95	e70	e140	310	1360	277	128	75	58
11	86	e60	e65	e100	e95	e160	312	1260	268	125	73	56
12	85	e80	e50	e95	e90	e150	295	1230	290	124	73	56
13	85	e90	e50	e90	e80	e150	290	1360	299	126	73	56
14	86	e85	e70	e85	e70	e180	268	1410	272	121	71	55
15	85	e80	e85	e85	e75	187	261	1800	268	116	71	54
16	83	e90	e85	e70	e75	184	282	2000	251	121	69	54
17	83	e95	e85	e65	e70	179	348	1740	235	128	69	56
18	87	e95	e85	e65	e75	168	510	1480	226	122	67	54
19	91	e90	e85	e75	e80	339	608	1260	219	116	65	54
20	92	e80	e85	e80	e75	551	676	1100	210	112	65	54
21	123	e75	e75	e80	e75	465	692	964	204	110	65	54
22	124	e85	e75	e75	e85	417	706	871	198	109	65	54
23	104	e85	e85	e70	e95	400	758	822	193	111	67	54
24	95	e90	e85	e70	e100	412	979	791	190	107	70	54
25	90	e95	e85	e70	e100	467	1320	744	192	104	71	55
26	87	e100	e85	e80	e95	554	1770	674	187	98	68	60
27	85	e110	e85	e70	e80	557	2150	608	191	93	65	62
28	85	e110	e85	e60	e75	504	2970	582	223	94	63	68
29	96	e100	e85	e60	---	445	2990	512	197	110	64	67
30	100	e90	e80	e70	---	421	2300	460	177	109	63	65
31	93	---	e75	e85	---	407	---	424	---	102	62	---
TOTAL	3206	2819	2415	2420	2285	8307	23818	37962	7935	3831	2261	1728
MEAN	103	94.0	77.9	78.1	81.6	268	794	1225	264	124	72.9	57.6
MAX	280	137	90	110	100	557	2990	2330	397	169	96	68
MIN	83	60	50	50	50	85	261	424	177	93	62	54
AC-FT	6360	5590	4790	4800	4530	16480	47240	75300	15740	7600	4480	3430
CFSM	.31	.28	.23	.23	.24	.80	2.37	3.66	.79	.37	.22	.17
IN.	.36	.31	.27	.27	.25	.92	2.64	4.22	.88	.43	.25	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2001, BY WATER YEAR (WY)

MEAN	142	335	517	493	699	909	2083	2101	682	225	125	106
MAX	449	1273	1777	2601	2485	2725	3711	4447	2238	399	201	170
(WY)	1969	1996	1996	1974	1996	1972	1956	1997	1974	1971	1993	1968
MIN	69.4	71.0	75.0	71.7	81.6	188	794	411	184	104	68.6	57.6
(WY)	1988	1962	1953	1979	2001	1955	2001	1992	1992	1977	1973	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951 - 2001	
ANNUAL TOTAL	250374		98987			
ANNUAL MEAN	684		271		700	
HIGHEST ANNUAL MEAN					1267	1974
LOWEST ANNUAL MEAN					223	1977
HIGHEST DAILY MEAN	8500	Apr 14	2990	Apr 29	16000	Jan 15 1974
LOWEST DAILY MEAN	50	Dec 12	50	Dec 12	40	Dec 11 1961
ANNUAL SEVEN-DAY MINIMUM	65	Dec 8	54	Sep 18	44	Jan 3 1977
ANNUAL RUNOFF (AC-FT)	496600		196300		507300	
ANNUAL RUNOFF (CFSM)	2.04		.81		2.09	
ANNUAL RUNOFF (INCHES)	27.80		10.99		28.40	
10 PERCENT EXCEEDS	1790		675		1950	
50 PERCENT EXCEEDS	242		95		280	
90 PERCENT EXCEEDS	85		63		92	

e Estimated

12411935 PRICHARD CREEK AT MOUTH AT PRICHARD, ID

LOCATION.--Lat 47°39'24", long 115°58'04", in SW¼NE¼NE¼ sec.29, T.50 N., R.4 E., Shoshone County, Prichard quad., Hydrologic Unit 17010301, on left bank at upstream side of county bridge, 1,000 ft upstream from mouth, 400 ft northeast of Prichard, and 193.3 mi upstream from mouth of Spokane River.

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

GAGE.--Water-stage recorder. Elevation of gage is 2,420 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,270 ft³/s Apr. 14, 2000, gage height, 17.71 ft, from rating curve extended above 1,200 ft³/s; minimum daily, 12 ft³/s Sept. 19-30, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,300 ft³/s Apr. 28, gage height, 16.46 ft; minimum daily, 12 ft³/s Sept. 19-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	21	16	15	15	17	152	666	198	76	30	15
2	26	20	16	15	15	17	148	558	195	71	29	15
3	30	20	16	15	16	18	141	451	195	67	28	15
4	30	20	16	16	16	18	128	394	224	63	27	15
5	29	21	16	16	16	18	118	423	200	60	26	15
6	27	21	16	16	16	18	111	408	195	60	25	14
7	26	23	16	16	16	19	108	374	183	57	24	14
8	24	23	16	16	16	20	114	375	177	54	24	14
9	23	23	16	16	16	22	105	451	175	52	23	14
10	22	22	15	16	15	29	100	487	166	49	22	14
11	21	21	15	16	15	43	97	464	158	47	22	14
12	21	20	15	17	15	46	94	515	163	47	21	13
13	21	19	15	17	16	48	91	711	157	45	21	13
14	20	19	15	17	16	51	86	754	150	44	20	13
15	20	18	15	17	16	52	82	736	154	42	20	13
16	20	18	15	17	15	51	82	699	145	43	20	13
17	20	17	15	16	15	48	96	558	141	43	19	13
18	20	17	15	16	15	47	148	451	136	43	19	13
19	20	17	15	16	15	77	214	380	130	41	18	12
20	20	16	15	16	15	128	237	339	123	39	18	12
21	22	16	15	16	15	152	223	312	116	38	17	12
22	22	16	15	16	16	141	209	307	109	38	17	12
23	25	16	15	16	16	138	209	357	104	37	17	12
24	25	16	15	16	16	149	244	460	100	36	17	12
25	24	16	15	16	17	181	385	502	98	34	17	12
26	24	16	15	16	17	236	667	453	93	33	17	12
27	23	16	15	15	17	222	927	389	93	32	17	12
28	22	16	15	15	18	192	1220	351	99	31	17	12
29	22	16	15	15	---	169	973	302	88	30	16	12
30	21	16	15	15	---	158	691	254	80	30	16	12
31	21	---	15	15	---	150	---	217	---	30	16	---
TOTAL	713	556	474	493	442	2675	8200	14098	4345	1412	640	394
MEAN	23.0	18.5	15.3	15.9	15.8	86.3	273	455	145	45.5	20.6	13.1
MAX	30	23	16	17	18	236	1220	754	224	76	30	15
MIN	20	16	15	15	15	17	82	217	80	30	16	12
AC-FT	1410	1100	940	978	877	5310	16260	27960	8620	2800	1270	781

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	21.7	66.9	117	101	93.5	255	526	520	283	73.6	29.2	19.3
MAX	24.2	131	211	209	151	397	826	624	470	116	40.8	22.5
(WY)	2000	2000	2000	1999	2000	1999	2000	1999	1999	1999	1999	2000
MIN	17.8	18.5	15.3	15.9	15.8	86.3	273	455	145	45.5	20.6	13.1
(WY)	1999	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	67310		34442			
ANNUAL MEAN	184		94.4		176	
HIGHEST ANNUAL MEAN					222	1999
LOWEST ANNUAL MEAN					94.4	2001
HIGHEST DAILY MEAN	2680	Apr 14	1220	Apr 28	2680	Apr 14 2000
LOWEST DAILY MEAN	15	Dec 10	12	Sep 19	12	Sep 19 2001
ANNUAL SEVEN-DAY MINIMUM	15	Dec 10	12	Sep 19	12	Sep 19 2001
ANNUAL RUNOFF (AC-FT)	133500		68320		127200	
10 PERCENT EXCEEDS	497		248		481	
50 PERCENT EXCEEDS	72		21		75	
90 PERCENT EXCEEDS	16		15		16	

SPOKANE RIVER BASIN

12413000 NORTH FORK COEUR D'ALENE RIVER AT ENAVILLE, ID

LOCATION.--Lat 47°34'08", long 116°15'06", in NW¼SW¼NE¼ sec.30, T.49 N., R.2 E., Shoshone County, Hydrologic Unit 17010301, on left bank 200 ft downstream from county road bridge, 0.9 mi upstream from South Fork, 3.7 mi downstream from Little North Fork, and 168.7 mi upstream from mouth of Spokane River.

DRAINAGE AREA.--895 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1911 to April 1913 (fragmentary), October 1939 to September 1991 (published as Coeur d'Alene River at Enaville), October 1991 to current year.

REVISED RECORDS.-WSP 1396: 1945.

GAGE.--Water-stage recorder. Gage readings have been reduced to datum of gage at 2,100.00 ft above National Geodetic Vertical Datum of 1929. Sea level datum is 3.71 ft higher based on National Geodetic Survey adjustment in 1991. Mar. 3, 1911 to Apr. 12, 1913, nonrecording gage at approximately same location at different datum. Oct. 18 to Dec. 22, 1939, nonrecording gage 0.2 mi upstream at datum 2.60 ft higher. Dec. 23, 1939 to Sept. 30, 1990, 0.2 mi upstream at datum 2.60 ft higher.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 61,000 ft^3/s Jan. 16, 1974, gage height, 81.32 ft, site and datum then in use; minimum, 95 ft^3/s Nov. 30, 1979, gage height, 60.95 ft, site and datum then in use; minimum gage height, 60.10 ft, Dec. 26, 1952, site and datum then in use .

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1933 reached a stage of 79.47 ft, datum then in use, and a flood in April 1938 reached a stage of 78.16 ft, datum then in use, from local information concerning high-water marks.

EXTREMES FOR CURRENT YEAR.--Peak discharges above a base discharge of 8,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 29	0300	*8,020	*64.72	No other peak greater than base discharge.			

Minimum, 146 ft^3/s Dec. 13, gage height, 57.77 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	666	266	231	213	219	223	1440	6540	1210	510	280	178
2	524	260	229	215	223	258	1400	6000	1190	484	270	177
3	380	252	223	213	217	263	1360	4840	1130	461	262	174
4	321	258	220	222	224	248	1250	4080	1190	443	256	172
5	292	319	216	238	219	246	1160	3830	1140	427	253	171
6	275	337	207	259	236	257	1130	3750	1100	423	247	172
7	263	307	209	250	221	276	1130	3390	1040	439	241	171
8	255	291	211	197	e170	326	1170	3100	971	415	235	171
9	249	290	213	187	e160	414	1140	3190	939	391	230	170
10	246	272	213	247	194	501	1110	3330	904	374	225	169
11	242	240	202	251	223	525	1110	3130	867	362	220	167
12	239	e200	e160	243	219	504	1070	3040	894	358	218	166
13	240	e220	150	233	212	504	1040	3350	925	356	215	164
14	241	e220	170	229	204	608	991	3660	863	347	214	162
15	240	211	211	223	204	672	944	4420	868	334	212	161
16	237	228	181	211	202	663	943	5070	814	342	209	161
17	235	233	215	196	199	639	1060	4570	766	361	205	166
18	238	226	216	197	206	599	1450	3890	736	351	201	164
19	247	222	222	209	208	883	1840	3290	706	333	197	161
20	250	213	219	216	207	1680	2010	2880	678	320	194	160
21	319	195	209	212	208	1550	2030	2520	649	313	193	160
22	338	205	208	212	224	1370	2000	2280	624	310	193	159
23	301	212	215	213	244	1280	2030	2200	603	309	195	158
24	277	219	223	201	258	1300	2350	2270	589	303	199	158
25	263	221	222	194	259	1490	3110	2290	587	296	200	157
26	254	229	222	215	245	1950	4350	2140	571	287	197	162
27	248	241	221	203	223	2000	5390	1940	572	278	191	167
28	248	248	221	197	211	1780	6920	1820	651	278	187	178
29	263	235	220	190	---	1590	7520	1640	615	291	187	184
30	271	228	216	197	---	1510	5940	1450	544	295	185	180
31	264	---	212	216	---	1440	---	1310	---	289	182	---
TOTAL	8926	7298	6507	6699	6039	27549	66388	101210	24936	11080	6693	5020
MEAN	288	243	210	216	216	889	2213	3265	831	357	216	167
MAX	666	337	231	259	259	2000	7520	6540	1210	510	280	184
MIN	235	195	150	187	160	223	943	1310	544	278	182	157
AC-FT	17700	14480	12910	13290	11980	54640	131700	200800	49460	21980	13280	9960
CFSM	.32	.27	.23	.24	.24	.99	2.47	3.65	.93	.40	.24	.19
IN.	.37	.30	.27	.28	.25	1.15	2.76	4.21	1.04	.46	.28	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2001, BY WATER YEAR (WY)

MEAN	386	969	1529	1446	2067	2623	5351	5109	1951	663	351	295
MAX	1210	3974	5121	6929	7760	8025	9884	10370	5369	1227	608	526
(WY)	1952	1996	1965	1974	1996	1972	1943	1997	1974	1971	1948	1968
MIN	188	197	210	209	216	573	1924	1248	551	295	183	167
(WY)	1945	1953	2001	1979	2001	1955	1941	1992	1992	1940	1994	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1911 - 2001	
ANNUAL TOTAL	653231		278345			
ANNUAL MEAN	1785		763		1892	
HIGHEST ANNUAL MEAN					3281	1974
LOWEST ANNUAL MEAN					599	1977
HIGHEST DAILY MEAN	20000	Apr 15	7520	Apr 29	50000	Jan 16 1974
LOWEST DAILY MEAN	150	Dec 13	150	Dec 13	108	Nov 30 1979
ANNUAL SEVEN-DAY MINIMUM	184	Dec 10	159	Sep 19	114	Jan 2 1977
ANNUAL RUNOFF (AC-FT)	1296000		552100		1371000	
ANNUAL RUNOFF (CFSM)	1.99		.85		2.11	
ANNUAL RUNOFF (INCHES)	27.15		11.57		28.72	
10 PERCENT EXCEEDS	4570		2000		5030	
50 PERCENT EXCEEDS	776		254		845	
90 PERCENT EXCEEDS	222		183		250	

e Estimated

SPOKANE RIVER BASIN

12413000 NORTH FORK COEUR D'ALENE RIVER AT ENAVILLE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972-73, 1975-1980, 1990, October 1992 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to September 1998, May to September 1999, May to September 2000, May to September 2001 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 21.9 °C July 27, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 20.2 °C Aug. 7, 9.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)	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													
18...	1300	237	47	7.1	10.5	10.5	--	--	--	--	21.4	5.26	2.00
NOV													
06...	1030	341	48	7.1	5.0	6.6	--	10.9	96.0	--	22.1	5.50	2.04
27...	1315	246	45	7.2	4.0	5.0	--	--	--	--	22.5	5.62	2.06
DEC													
13...	1100	149	47	6.7	-6.0	1.5	--	12.1	94.0	--	21.2	5.29	1.95
JAN													
08...	1245	195	45	7.1	3.0	2.0	--	--	--	--	21.6	5.39	1.98
23...	1000	216	45	7.2	1.0	1.8	--	14.5	112	--	20.6	5.07	1.93
FEB													
26...	1205	248	45	7.3	5.5	2.5	--	--	--	--	20.4	5.04	1.91
MAR													
14...	0845	590	45	7.3	2.5	2.8	--	11.8	94.1	--	20.7	5.09	1.95
APR													
10...	0815	1110	44	7.3	1.0	3.5	.7	11.7	96.2	S4	19.5	4.83	1.81
MAY													
01...	1100	6610	32	7.1	5.0	4.6	6.1	11.2	93.8	S3	12.9	3.18	1.21
03...	1015	4870	32	7.3	6.0	5.1	--	11.0	92.3	--	13.6	3.38	1.25
JUN													
12...	0930	880	44	7.7	9.0	10.0	--	9.7	93.2	--	19.4	4.74	1.84
25...	1300	590	48	7.4	18.5	14.1	2.3	9.1	95.3	S1	20.6	5.02	1.95
JUL													
24...	0800	304	53	7.5	15.0	15.4	2.7	7.4	80.1	21	--	--	--
AUG													
06...	1300	248	53	7.6	28.5	18.0	2.5	7.3	83.1	S2	23.4	5.77	2.18
SEP													
17...	1600	166	54	7.3	27.0	16.0	2.1	9.7	106	S2	24.1	6.02	2.21

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
06...	1.1	.42	28	22	.4	2.0	<.2	8.8	.009	E.07	<.08	.013	<.001
27...	--	--	--	--	--	--	--	--	<.002	--	<.08	<.005	--
DEC													
13...	1.1	.31	25	21	.4	2.1	<.2	8.7	<.002	<.10	<.08	.016	<.001
JAN													
08...	--	--	--	--	--	--	--	--	<.002	--	E.06	.022	--
23...	1.1	.38	26	21	.3	2.2	<.2	8.1	<.002	<.10	<.08	.022	.001
FEB													
26...	--	--	--	--	--	--	--	--	.003	--	<.08	.022	--
MAR													
14...	1.1	.34	25	20	.5	2.6	<.2	8.1	.008	<.10	<.08	.023	<.001
APR													
10...	1.1	.37	23	19	.5	2.5	<.2	8.7	.004	<.10	E.06	.013	<.001
MAY													
01...	--	--	--	--	--	--	--	--	.002	--	.09	.033	--
03...	.9	.31	16	13	.2	1.8	<.2	8.9	.002	<.10	<.08	.017	<.001
JUN													
12...	1.1	.35	24	20	.3	1.9	<.2	9.0	.002	<.10	<.08	.005	<.001
25...	--	--	--	--	--	--	--	--	<.002	--	E.06	.008	--
JUL													
24...	--	--	--	--	--	--	--	--	<.002	--	E.04	.018	--
AUG													
06...	--	--	--	--	--	--	--	--	<.002	--	E.04	.011	--
SEP													
17...	1.3	.52	--	--	.2	2.0	<.2	9.7	.004	--	E.04	.015	--

E Estimated value

12413000 NORTH FORK COEUR D'ALENE RIVER AT ENAVILLE, ID--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT													
18...	--	--	--	--	--	<.04	<.04	--	--	<10	10	E.05	<1
NOV													
06...	<.006	<.007	E.003	E.1	<2	<.04	<.04	E.2	<.6	<10	--	<.08	<1
27...	--	<.007	<.004	--	--	<.04	<.04	--	--	<10	E10	<.08	<1
DEC													
13...	<.006	<.007	E.003	E.1	<3	<.04	<.04	E.2	<.6	<10	--	<.08	<1
JAN													
08...	--	<.007	E.003	--	--	<.04	<.04	--	--	<10	10	<.08	<1
23...	E.004	<.007	E.003	E.1	<2	<.04	<.04	E.2	<.6	<10	--	E.05	<1
FEB													
26...	--	<.007	E.003	--	--	.04	<.04	--	--	<10	10	.11	<1
MAR													
14...	E.003	<.007	E.003	E.2	<2	<.04	<.04	.4	E.3	<10	--	<.08	<1
APR													
10...	<.006	<.007	.004	E.2	<2	<.04	<.04	.4	E.3	<10	--	<.08	<1
MAY													
01...	--	E.004	.018	--	--	.04	E.03	--	--	<10	190	E.06	1
03...	E.005	<.007	.011	E.2	<2	<.04	E.02	.4	E.4	<10	--	.09	<1
JUN													
12...	E.004	<.007	.005	.2	<2	E.02	E.02	.3	<.6	<10	--	E.04	<1
25...	--	<.007	.004	--	--	.09	E.02	--	--	<10	20	E.05	<1
JUL													
24...	--	<.007	<.004	--	--	--	--	--	--	--	--	--	--
AUG													
06...	--	<.007	.004	--	--	E.02	E.03	--	--	<10	20	.09	<1
SEP													
17...	--	<.007	.004	--	--	<.04	<.04	--	--	<10	20	.10	<1

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT							
18...	1.3	1	3	3	--	--	--
NOV							
06...	<3.2	--	3	3	67	1	.92
27...	1.1	1	3	3	--	--	--
DEC							
13...	<3.2	--	2	2	67	1	.40
JAN							
08...	1.1	1	2	3	--	--	--
23...	<3.2	--	2	3	75	1	.58
FEB							
26...	.8	1	3	2	--	--	--
MAR							
14...	<3.2	--	3	3	88	1	1.6
APR							
10...	E1.9	--	4	4	75	1	3.0
MAY							
01...	1.2	9	5	13	--	13	232
03...	<3.2	--	4	6	90	3	39
JUN							
12...	<3.0	--	6	4	75	1	2.4
25...	1.1	1	4	5	--	<1	--
JUL							
24...	--	--	--	--	--	1	.82
AUG							
06...	1.3	2	3	5	--	1	.67
SEP							
17...	1.2	2	2	2	--	1	.45

< Less than
E Estimated value
S Most probable value

SPOKANE RIVER BASIN

12413000 NORTH FORK COEUR D'ALENE RIVER AT ENAVILLE, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, MAY TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	6.2	4.7	5.3
3	---	---	---	---	---	---	---	---	---	7.6	4.8	6.2
4	---	---	---	---	---	---	---	---	---	8.7	5.9	7.2
5	---	---	---	---	---	---	---	---	---	8.2	7.0	7.7
6	---	---	---	---	---	---	---	---	---	8.2	5.4	7.0
7	---	---	---	---	---	---	---	---	---	8.4	5.8	7.2
8	---	---	---	---	---	---	---	---	---	9.0	6.5	7.8
9	---	---	---	---	---	---	---	---	---	9.3	7.0	8.2
10	---	---	---	---	---	---	---	---	---	9.6	6.8	8.2
11	---	---	---	---	---	---	---	---	---	9.8	6.8	8.4
12	---	---	---	---	---	---	---	---	---	9.2	7.6	8.3
13	---	---	---	---	---	---	---	---	---	9.9	7.9	8.9
14	---	---	---	---	---	---	---	---	---	9.6	7.2	8.1
15	---	---	---	---	---	---	---	---	---	8.1	6.5	7.2
16	---	---	---	---	---	---	---	---	---	7.9	6.8	7.4
17	---	---	---	---	---	---	---	---	---	7.9	6.2	7.1
18	---	---	---	---	---	---	---	---	---	8.9	7.0	7.9
19	---	---	---	---	---	---	---	---	---	7.9	6.8	7.4
20	---	---	---	---	---	---	---	---	---	10.3	6.8	8.3
21	---	---	---	---	---	---	---	---	---	10.7	7.0	8.9
22	---	---	---	---	---	---	---	---	---	12.1	8.4	10.2
23	---	---	---	---	---	---	---	---	---	13.0	9.6	11.4
24	---	---	---	---	---	---	---	---	---	13.7	10.6	12.1
25	---	---	---	---	---	---	---	---	---	14.0	11.0	12.6
26	---	---	---	---	---	---	---	---	---	13.5	10.9	12.4
27	---	---	---	---	---	---	---	---	---	13.7	11.0	12.4
28	---	---	---	---	---	---	---	---	---	13.0	11.5	12.3
29	---	---	---	---	---	---	---	---	---	12.4	9.9	11.0
30	---	---	---	---	---	---	---	---	---	11.0	8.9	10.0
31	---	---	---	---	---	---	---	---	---	13.4	9.0	11.1
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	14.3	10.9	12.6	18.7	15.1	16.8	17.9	14.0	15.8	16.6	14.6	15.7
2	13.4	11.5	12.1	18.7	14.6	16.7	19.2	14.6	16.8	17.4	14.0	15.7
3	11.5	9.0	9.8	18.9	14.6	16.8	18.6	15.2	17.1	17.6	14.1	15.9
4	9.5	8.4	8.8	19.5	15.5	17.6	17.3	15.2	16.4	17.6	14.0	15.8
5	10.9	8.4	9.5	19.1	16.2	17.6	19.1	14.4	16.6	16.2	14.7	15.3
6	11.5	9.6	10.3	17.4	14.1	15.4	19.9	15.4	17.5	15.4	12.9	14.3
7	12.9	9.6	11.2	18.4	14.1	16.0	20.2	16.0	18.1	15.7	12.9	14.2
8	12.6	10.6	11.6	19.1	14.7	16.9	20.0	15.9	18.0	15.5	12.3	14.0
9	13.4	11.0	12.1	19.7	15.2	17.5	20.2	16.0	18.0	15.9	12.3	14.1
10	12.4	11.0	11.5	20.0	15.7	17.9	20.0	15.9	18.0	15.9	12.7	14.4
11	11.2	9.6	10.6	18.7	16.2	17.3	20.0	15.7	17.8	16.2	12.9	14.6
12	10.9	9.8	10.3	19.2	15.1	17.0	19.4	15.7	17.5	16.2	13.2	14.8
13	10.3	9.0	9.6	19.4	16.0	17.6	18.7	16.5	17.6	16.6	13.4	15.0
14	11.3	9.3	10.1	19.5	15.5	17.5	19.7	15.9	17.6	16.8	13.7	15.3
15	13.5	9.9	11.5	18.4	15.4	16.9	19.5	15.7	17.6	16.6	13.7	15.3
16	14.6	10.4	12.5	17.1	14.4	15.4	19.2	15.5	17.4	16.6	13.7	15.3
17	13.7	11.2	12.6	16.2	13.5	14.7	19.2	15.7	17.5	16.2	14.7	15.4
18	15.1	10.9	12.8	17.3	13.4	15.2	19.1	15.7	17.4	16.2	13.7	14.9
19	16.0	11.5	13.7	17.9	14.0	15.9	18.4	14.7	16.7	15.2	12.9	14.2
20	16.5	12.3	14.4	18.1	14.3	16.1	18.1	14.3	16.2	15.1	12.3	13.8
21	17.1	12.9	15.0	17.3	15.4	16.3	18.1	14.1	16.2	14.3	12.3	13.4
22	17.4	13.8	15.7	16.8	14.7	15.7	16.8	15.1	16.0	14.9	12.0	13.5
23	16.2	13.8	15.1	18.7	14.6	16.4	16.3	14.7	15.6	15.4	12.6	14.1
24	15.1	13.2	14.1	18.9	15.2	17.0	18.1	14.4	15.9	15.7	13.0	14.4
25	15.5	12.0	13.6	19.5	15.1	17.2	17.8	13.7	15.7	14.9	12.9	14.1
26	15.2	13.0	14.1	19.5	15.1	17.3	18.1	14.0	16.0	14.7	13.4	14.1
27	14.6	13.2	13.6	19.7	15.2	17.4	18.4	14.6	16.5	14.9	13.5	14.1
28	15.2	12.6	13.8	17.8	15.2	15.9	17.0	14.7	15.8	15.1	13.5	14.2
29	17.4	12.9	15.0	16.6	14.1	15.3	18.1	14.0	15.9	14.3	12.4	13.4
30	17.6	14.0	15.8	16.2	13.5	15.0	18.2	14.6	16.5	14.0	11.5	12.9
31	---	---	---	17.0	14.4	15.5	18.2	14.7	16.4	---	---	---
MONTH	17.6	8.4	12.4	20.0	13.4	16.5	20.2	13.7	16.8	17.6	11.5	14.5

12413000 NORTH FORK COEUR D'ALENE RIVER AT ENAVILLE, ID--Continued

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles.
MESH SIZE.--425 um.

AVERAGE DEPTH.--0.25 m.

AVERAGE PERCENT SHADING.--57.

AVERAGE VELOCITY.-- 0.78 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.-4-5.

PERCENT FINES AVERAGE.--0.

BIOLOGICAL DATA, SEPTEMBER 2000
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES* DATE Sept. 12	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION
NON-INSECTS		
Turbellaria	53	1.43
Kincaidiana hexatheca	10	0.26
Hydrobiidae-unknown	10	0.26
Ostracoda	10	0.26
Acari	34	0.91
EPHEMEROPTERA		
Acentrella insignificans	197	5.34
Acentrella turbida	67	1.82
Baetis tricaudatus	77	2.08
Drunella doddsi	24	0.65
Drunella grandis	5	0.13
Ephemerella inermis/infrequens	490	13.28
Serratella tibialis	43	1.17
Timpanoga hecuba	5	0.13
Heptagenia	149	4.04
Rhithrogena	163	4.43
Paraleptophlebia	62	1.69
PLECOPTERA		
Chloroperlidae	14	0.39
Sweltsa	10	0.26
Zapada cinctipes	29	0.78
Calineuria californica	24	0.65
Claassenia sabulosa	5	0.13
Hesperoperla pacifica	5	0.13
Perlodidae-early instar	43	1.17
Isoperla	154	4.17
Skwala	10	0.26
Pteronarcella	10	0.26
TRICHOPTERA		
Apatania	24	0.65
Brachycentrus americanus	10	0.26
Hydropsyche	1056	28.65
Hydroptila	5	0.13
Lepidostoma-sand case larvae	216	5.86
COLEOPTERA		
Cleptelmis addenda	5	0.13
Optioservus	38	1.04
Ordobrevia nubifera	67	1.82
Zaitzevia	86	2.34
Brychius	10	0.26
DIPTERA		
Atherix	5	0.13
Simulium	43	1.17
Antocha	38	1.04
Hexatoma	10	0.26
CHIRONOMIDAE		
Chironomidae-pupae	58	1.56
Cricotopus	19	0.52
Eukiefferiella	67	1.82
Micropsectra	29	0.78
Orthocladius Complex	168	4.56
Potthastia Gaedii group	14	0.39
Rheocricotopus	5	0.13
Synorthocladius	10	0.26
Thienemannimyia group	5	0.13

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 49
TOTAL INDIVIDUALS 3,686

SPOKANE RIVER BASIN

12413125 CANYON CREEK ABOVE MOUTH AT WALLACE, ID

LOCATION.--Lat 47°28'21", long 115°54'49", in NW¼NE¼NW¼ sec.35, T.48 N., R.4 E., Shoshone County, Wallace quad., Hydrologic Unit 17010302, on left bank under freeway overpass, 65 ft upstream from mouth of South Fork Coeur d'Alene River, 187 mi upstream from mouth of Spokane River, and 0.5 mi east of Wallace Post Office.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 2,760 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 574 ft³/s May 25, 1999, gage height, 21.43 ft; minimum daily, 8.3 ft³/s Dec. 12, 2000, Jan. 27, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 280 ft³/s May 25, gage height, 20.50 ft; minimum daily, 8.3 ft³/s Dec. 12, Jan. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	13	11	10	11	11	21	107	93	37	20	13
2	16	13	11	10	10	10	21	89	92	36	19	13
3	15	13	11	10	9.8	9.8	20	74	89	34	19	13
4	14	15	11	11	11	9.8	19	71	97	33	19	13
5	14	15	11	11	11	10	18	77	83	33	18	13
6	14	13	10	11	10	11	18	75	81	32	18	13
7	14	13	11	9.6	9.1	12	18	76	77	31	17	13
8	13	13	11	10	e9.5	14	19	87	77	30	17	13
9	13	13	11	11	e11	16	17	109	78	29	17	13
10	13	11	e10	10	13	15	17	118	75	28	16	12
11	13	e11	e9.0	10	11	13	17	120	71	27	16	12
12	13	e11	8.3	10	10	13	16	136	73	27	16	12
13	14	e11	e10	10	9.9	14	16	210	70	27	16	12
14	14	e11	13	10	10	14	15	247	70	26	16	12
15	13	e11	12	9.5	10	13	15	225	72	26	15	12
16	13	12	12	e9.5	10	13	16	214	71	28	15	12
17	13	12	15	e9.5	11	12	19	173	71	26	15	12
18	13	12	12	e9.5	10	13	26	135	69	25	15	12
19	13	11	12	e9.5	9.5	21	29	117	65	24	15	12
20	14	11	11	e9.5	9.6	21	30	106	61	24	15	11
21	19	e11	12	e10	10	20	28	99	58	25	15	11
22	15	11	12	10	11	20	28	105	56	23	14	11
23	14	e11	12	9.3	11	22	29	137	53	22	15	11
24	14	13	11	10	11	25	34	207	51	22	15	11
25	13	12	11	10	10	31	54	243	50	21	14	11
26	13	12	11	9.1	9.8	33	87	220	46	21	14	12
27	13	12	11	8.3	9.1	27	124	190	46	20	14	11
28	13	11	10	e8.5	10	25	194	171	46	21	14	13
29	14	12	10	e11	---	22	148	134	41	21	14	12
30	13	12	10	13	---	21	117	111	39	20	14	11
31	13	---	10	12	---	21	---	98	---	21	13	---
TOTAL	437	362	342.3	311.8	288.3	532.6	1230	4281	2021	820	490	362
MEAN	14.1	12.1	11.0	10.1	10.3	17.2	41.0	138	67.4	26.5	15.8	12.1
MAX	24	15	15	13	13	33	194	247	97	37	20	13
MIN	13	11	8.3	8.3	9.1	9.8	15	71	39	20	13	11
AC-FT	867	718	679	618	572	1060	2440	8490	4010	1630	972	718

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	14.5	19.0	20.2	17.3	18.2	33.9	87.9	153	124	48.9	21.3	14.9
MAX	16.1	26.3	28.1	23.7	23.8	50.7	141	161	193	85.9	29.7	17.1
(WY)	2000	2000	2000	1999	2000	1999	2000	1999	1999	1999	1999	1999
MIN	13.2	12.1	11.0	10.1	10.3	17.2	41.0	138	67.4	26.5	15.8	12.1
(WY)	1999	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	18053.3		11478.0			
ANNUAL MEAN	49.3		31.4		47.8	
HIGHEST ANNUAL MEAN					59.8	1999
LOWEST ANNUAL MEAN					31.4	2001
HIGHEST DAILY MEAN	313	Apr 14	247	May 14	423	May 25 1999
LOWEST DAILY MEAN	8.3	Dec 12	8.3	Dec 12	8.3	Dec 12 2000
ANNUAL SEVEN-DAY MINIMUM	10	Dec 6	9.3	Jan 22	9.3	Jan 22 2001
ANNUAL RUNOFF (AC-FT)	35810		22770		34620	
10 PERCENT EXCEEDS	144		82		131	
50 PERCENT EXCEEDS	21		14		22	
90 PERCENT EXCEEDS	12		10		12	

e Estimated

SPOKANE RIVER BASIN

12413125 CANYON CREEK ABOVE MOUTH AT WALLACE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to October 1972, October 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT													
16...	1420	14	122	7.2	6.0	9.6	52.1	14.9	3.64	16.4	15.9	40	10
NOV													
29...	0720	10	127	7.2	-1.0	0	55.3	15.7	3.90	18.5	18.3	30	<10
JAN													
10...	0845	11	129	7.6	-0.5	.5	55.6	15.9	3.86	19.2	17.0	40	10
FEB													
26...	1515	14	128	7.6	4.0	.5	53.8	15.4	3.73	20.0	19.7	90	<10
APR													
09...	1410	17	130	7.4	3.5	4.0	51.6	14.8	3.53	27.3	26.2	50	10
27...	0845	120	56	7.1	12.0	5.5	21.0	6.00	1.45	12.1	12.8	430	10
JUN													
27...	1030	44	70	7.3	15.0	11.0	27.6	7.77	2.00	10.2	10.4	60	20
AUG													
08...	1155	17	114	8.0	26.0	17.7	48.3	13.7	3.44	15.2	15.2	50	20
SEP													
19...	1045	12	125	7.0	13.0	11.0	57.4	16.2	4.11	17.7	17.4	40	10

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT						
16...	24.3	31	63	68.2	2300	1980
NOV						
29...	17.8	25	65	70.6	2870	2570
JAN						
10...	19.0	25	62	62.4	2710	2710
FEB						
26...	20.2	46	66	65.0	2920	3000
APR						
09...	22.6	33	99	97.2	4760	--
27...	12.3	117	54	37.8	1810	1830
JUN						
27...	12.2	24	56	58.0	1440	1450
AUG						
08...	22.7	29	73	73.2	1920	1870
SEP						
19...	21.6	27	72	76.6	2490	2440

SPOKANE RIVER BASIN

12413130 NINEMILE CREEK ABOVE MOUTH AT WALLACE, ID

LOCATION.--Lat 47°28'46", long 115°55'10", in NW¼NW¼SW¼ sec.26, T.48 N., R.4 E., Shoshone County, Wallace quad., Hydrologic Unit 17010302, on left bank 0.45 mi upstream from mouth at South Fork Coeur d'Alene River, and 0.55 mi northeast of Wallace Post Office.

WATER-DISCHARGE RECORDS

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 157 ft^3/s Apr. 14, 2000, gage height, 14.01 ft; minimum daily, 2.0 ft^3/s Dec. 12, 2000, Jan. 15-18, 27-28, Feb. 19, 20, 27, 28, Sept. 24, 25, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53 ft^3/s Apr. 28, gage height, 13.38 ft; minimum daily, 2.0 ft^3/s Dec. 12, Jan. 15-18, 27-28, Feb. 19, 20, 27, 28, Sept. 24, 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	3.5	2.9	2.6	e2.5	e2.5	9.2	30	20	11	5.3	3.2
2	4.4	3.4	e3.0	2.6	2.8	2.6	9.0	27	19	11	5.1	3.1
3	3.9	3.4	2.7	2.6	2.8	2.8	8.7	25	20	9.9	4.8	3.1
4	3.6	4.5	e2.5	2.9	3.0	e2.5	8.0	26	22	9.7	4.8	3.0
5	3.4	4.6	2.8	3.1	3.1	2.9	7.7	26	19	9.5	4.7	3.1
6	3.4	4.0	e2.5	2.9	2.8	3.4	7.8	26	18	9.5	4.5	3.0
7	3.3	3.7	2.7	e2.5	e2.5	4.3	8.2	25	18	9.0	4.4	3.0
8	3.2	3.7	2.7	e2.5	e2.5	5.1	8.2	26	17	8.8	4.3	3.0
9	3.2	3.6	2.8	3.0	e2.5	5.9	7.7	30	17	8.6	4.2	2.9
10	3.2	e3.5	2.7	2.7	e2.5	5.6	7.9	31	17	8.3	4.2	2.9
11	3.2	e3.5	e2.5	e3.0	2.6	5.2	7.7	30	17	8.2	4.1	2.8
12	3.2	3.5	e2.0	2.7	e2.5	5.0	7.3	32	18	8.2	4.0	2.8
13	3.5	e3.0	e3.0	2.8	2.4	5.6	7.3	35	17	7.6	4.0	2.8
14	3.3	e3.0	e4.0	2.7	e2.5	6.0	7.0	37	17	7.4	4.0	2.8
15	3.2	e3.0	e3.0	e2.0	2.4	5.2	7.0	37	17	7.3	3.9	2.7
16	3.2	3.0	e3.0	e2.0	e2.5	5.2	7.5	35	16	8.4	3.9	2.8
17	3.2	3.0	e3.5	e2.0	2.3	5.2	9.1	30	16	7.5	3.8	2.8
18	3.2	3.0	e3.0	e2.0	2.4	6.0	12	27	16	7.2	3.7	2.7
19	3.1	e3.0	e2.5	2.6	e2.0	11	14	22	16	7.0	3.7	e2.5
20	3.5	e3.0	e2.5	2.5	e2.0	12	14	24	16	7.1	3.7	e2.5
21	6.3	3.0	3.0	3.0	2.2	11	14	24	15	7.2	3.6	e2.5
22	4.4	e3.0	2.7	2.8	2.8	11	14	24	14	6.8	3.6	e2.5
23	4.0	e2.5	2.7	e2.5	2.7	9.9	14	24	14	6.3	3.7	e2.5
24	3.8	3.0	2.8	e2.5	2.6	11	16	27	14	6.1	3.7	e2.0
25	3.6	3.0	2.7	2.6	2.4	12	21	32	13	5.8	3.5	e2.0
26	3.6	3.0	2.8	e2.5	e2.5	11	29	30	13	5.7	3.5	e2.5
27	3.6	3.2	2.7	e2.0	e2.0	9.7	40	27	13	5.6	3.4	e2.5
28	3.6	e3.0	2.6	e2.0	e2.0	9.5	47	26	13	5.8	3.4	e3.0
29	3.8	3.0	2.7	e3.0	---	9.4	43	24	12	5.8	3.3	e2.5
30	3.5	3.0	2.6	e3.5	---	8.9	35	23	12	5.6	3.3	e2.5
31	3.5	---	2.6	e3.0	---	8.7	---	21	---	5.6	3.2	---
TOTAL	114.3	98.6	86.2	81.1	69.8	216.1	448.3	863	486	237.5	123.3	82.0
MEAN	3.69	3.29	2.78	2.62	2.49	6.97	14.9	27.8	16.2	7.66	3.98	2.73
MAX	6.4	4.6	4.0	3.5	3.1	12	47	37	22	11	5.3	3.2
MIN	3.1	2.5	2.0	2.0	2.0	2.5	7.0	21	12	5.6	3.2	2.0
AC-FT	227	196	171	161	138	429	889	1710	964	471	245	163

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	3.92	5.44	7.31	6.54	7.92	21.9	40.2	39.9	25.7	9.74	5.18	3.81
MAX	4.62	7.58	11.3	10.0	11.3	34.3	63.4	48.1	39.7	13.7	7.03	4.55
(WY)	2000	2000	2000	1999	2000	1999	2000	1999	1999	1999	1999	1999
MIN	3.45	3.29	2.78	2.62	2.49	6.97	14.9	27.8	16.2	7.66	3.98	2.73
(WY)	1999	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	6001.3		2906.2			
ANNUAL MEAN	16.4		7.96		14.8	
HIGHEST ANNUAL MEAN					18.9	1999
LOWEST ANNUAL MEAN					7.96	2001
HIGHEST DAILY MEAN	130	Apr 14	47	Apr 28	130	Apr 14 2000
LOWEST DAILY MEAN	2.0	Dec 12	2.0	Dec 12	2.0	Dec 12 2000
ANNUAL SEVEN-DAY MINIMUM	2.6	Dec 6	2.3	Jan 14	2.3	Jan 14 2001
ANNUAL RUNOFF (AC-FT)	11900		5760		10720	
10 PERCENT EXCEEDS	45		21		37	
50 PERCENT EXCEEDS	7.0		3.7		7.7	
90 PERCENT EXCEEDS	3.0		2.5		3.0	

e Estimated

SPOKANE RIVER BASIN

12413130 NINEMILE CREEK ABOVE MOUTH AT WALLACE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to October 1972, October 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT													
16...	1615	3.2	147	7.3	13.5	9.9	60.9	17.5	4.17	17.6	17.4	20	<10
NOV													
29...	0940	3.0	152	7.1	1.0	0	69.3	19.8	4.82	22.1	21.5	E10	<10
JAN													
10...	1000	2.8	161	7.7	2.0	1.0	68.9	19.8	4.73	22.6	20.0	30	<10
FEB													
26...	1640	3.6	171	7.7	2.0	1.0	67.9	19.4	4.72	23.0	22.6	60	<10
APR													
09...	1600	7.6	180	7.6	4.5	4.5	73.8	20.5	5.47	20.5	20.2	30	<10
26...	1600	30	128	7.5	21.0	10.0	55.3	15.4	4.07	19.9	22.2	520	<10
JUN													
27...	1315	13	95	7.4	19.5	12.5	36.7	10.3	2.69	11.7	12.3	40	10
AUG													
08...	1100	4.6	133	7.6	25.5	14.7	52.9	15.1	3.70	20.8	20.6	20	<10
SEP													
19...	0900	2.7	149	7.0	7.0	8.5	63.0	18.1	4.32	22.1	22.5	20	<10

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT						
16...	19.5	30	31	34.5	2140	1820
NOV						
29...	19.4	30	33	36.1	3810	3560
JAN						
10...	23.0	31	37	35.6	3570	3510
FEB						
26...	22.1	46	48	44.8	3750	3880
APR						
09...	23.8	38	56	55.1	3770	--
26...	22.0	280	80	45.6	3050	3480
JUN						
27...	23.3	48	30	29.2	1660	1770
AUG						
08...	23.1	32	34	33.5	2850	2840
SEP						
19...	19.7	41	36	37.7	4580	4440

E Estimated value

SPOKANE RIVER BASIN

12413210 SOUTH FORK COEUR D'ALENE RIVER AT ELIZABETH PARK, NEAR KELLOGG, ID

LOCATION.--Lat 47°31'53", long 116°05'30", in SW¼SW¼SW¼ sec.4, T.48 N., R.3 E., Shoshone County, Hydrologic Unit 17010302, on left bank 5 ft downstream from county road bridge at Elizabeth Park, 0.1 mi downstream from Montgomery Creek, 1.5 mi downstream from Elk Creek School, 1.5 mi upstream from Kellogg, and at mile 9.1

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1987 to February 1991, May 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,300.00 ft above sea level (Idaho Department of Highways bench mark).

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,600 ft³/s Feb. 9, 1996, gage height, 35.50 ft; minimum daily, 36 ft³/s Nov. 24, 1993.

EXTREMES FOR CURRENT YEAR.--Peak discharges above a base discharge of 1,600 ft³/s and maximum(*):

Date	Time	Discharge (ft³/s)	Gage height (ft)
May 16	0315	*964	*27.24

Date	Time	Discharge (ft³/s)	Gage height (ft)
No peaks greater than base discharge.			

Minimum daily, 41 ft³/s Dec. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	72	60	57	57	62	176	769	375	157	85	57
2	93	70	60	56	57	64	172	671	373	150	81	57
3	83	69	59	55	56	62	165	566	358	143	80	57
4	79	83	58	59	59	61	153	513	406	138	79	55
5	76	91	58	62	65	63	146	516	347	138	78	56
6	74	79	56	64	63	69	147	491	337	136	76	57
7	73	74	57	59	56	81	151	462	317	132	73	57
8	73	74	56	57	50	96	156	474	306	126	72	57
9	72	73	58	59	55	114	147	546	311	120	71	56
10	71	68	57	57	58	110	146	575	298	115	70	55
11	70	67	56	56	58	99	144	576	284	112	67	53
12	69	68	41	57	55	93	139	639	300	112	67	53
13	72	67	52	57	55	100	139	779	290	113	66	52
14	72	65	56	58	52	118	130	844	276	107	65	52
15	72	64	55	56	55	108	126	901	279	105	64	52
16	71	65	52	51	50	104	127	892	262	121	63	54
17	68	64	66	53	55	98	146	779	254	112	63	55
18	69	63	60	53	57	95	184	687	244	106	62	53
19	70	63	60	56	55	219	214	604	233	102	62	53
20	71	e60	53	55	55	228	218	545	222	100	63	53
21	106	e60	56	55	58	181	210	506	212	109	61	52
22	85	61	59	58	65	164	207	508	204	100	62	52
23	78	59	60	56	71	161	215	589	198	98	63	51
24	74	63	62	54	70	173	241	707	194	94	65	50
25	72	60	60	56	67	214	331	754	193	91	63	49
26	71	61	58	54	63	238	507	715	181	88	61	53
27	70	65	58	47	58	204	681	654	190	86	60	53
28	71	61	57	44	59	188	867	616	201	88	59	62
29	76	61	56	52	---	170	766	528	174	93	59	57
30	73	62	56	58	---	162	704	448	164	89	58	54
31	70	---	56	58	---	160	---	397	---	89	57	---
TOTAL	2379	2012	1768	1729	1634	4059	7855	19251	7983	3470	2075	1627
MEAN	76.7	67.1	57.0	55.8	58.4	131	262	621	266	112	66.9	54.2
MAX	135	91	66	64	71	238	867	901	406	157	85	62
MIN	68	59	41	44	50	61	126	397	164	86	57	49
AC-FT	4720	3990	3510	3430	3240	8050	15580	38180	15830	6880	4120	3230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

MEAN	84.8	173	213	216	317	401	725	871	550	201	102	76.8
MAX	153	580	865	513	1307	722	1135	2026	1133	393	147	104
(WY)	1996	1996	1996	1997	1996	1995	2000	1997	1997	1999	1999	1997
MIN	53.2	54.6	57.0	55.8	58.4	131	262	459	189	97.6	61.6	52.7
(WY)	1988	1988	2001	2001	2001	2001	2001	1994	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1987 - 2001	
ANNUAL TOTAL	122054		55842			
ANNUAL MEAN	333		153		322	
HIGHEST ANNUAL MEAN					564	1997
LOWEST ANNUAL MEAN					153	2001
HIGHEST DAILY MEAN	2600	Apr 14	901	May 15	7400	Feb 9 1996
LOWEST DAILY MEAN	41	Dec 12	41	Dec 12	36	Nov 24 1993
ANNUAL SEVEN-DAY MINIMUM	53	Dec 10	51	Sep 19	45	Sep 27 1994
ANNUAL RUNOFF (AC-FT)	242100		110800		233400	
10 PERCENT EXCEEDS	890		401		798	
50 PERCENT EXCEEDS	150		71		161	
90 PERCENT EXCEEDS	61		55		66	

e Estimated

SPOKANE RIVER BASIN

12413210 SOUTH FORK COEUR D'ALENE RIVER AT ELIZABETH PARK NEAR KELLOGG, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT													
18...	0800	69	200	7.3	5.0	8.5	73.9	20.4	5.57	8.22	7.96	40	<10
NOV													
29...	1250	61	199	7.2	1.5	3.3	78.5	20.9	6.36	7.33	7.10	30	10
JAN													
10...	0715	58	202	7.5	-1.0	2.5	78.3	20.9	6.33	7.82	6.88	40	10
FEB													
27...	1515	54	209	7.4	7.0	5.0	75.8	20.2	6.17	7.45	7.40	50	10
APR													
09...	1745	143	175	7.4	4.0	5.0	64.5	17.3	5.17	7.17	7.01	50	10
MAY													
01...	1600	755	78	7.4	6.5	5.3	32.6	8.84	2.55	3.25	3.56	120	<10
JUN													
27...	0710	176	126	7.6	16.0	12.0	49.4	13.4	3.88	5.99	6.10	40	10
AUG													
08...	0955	73	176	7.7	20.5	14.5	68.3	18.3	5.49	7.92	7.95	20	20
SEP													
19...	0720	53	195	7.3	6.0	10.0	78.4	20.9	6.33	8.74	8.62	20	<10

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT						
18...	3.73	9	48	49.4	1110	1030
NOV						
29...	4.75	8	58	61.8	1100	924
JAN						
10...	4.11	8	61	59.6	1120	1090
FEB						
27...	4.15	9	63	59.6	1050	1020
APR						
09...	4.18	10	54	50.2	1140	1060
MAY						
01...	2.13	15	41	17.5	501	522
JUN						
27...	3.93	9	37	35.1	941	940
AUG						
08...	4.91	6	33	32.2	1060	1020
SEP						
19...	3.59	5	36	37.8	1250	1210

E Estimated value

SPOKANE RIVER BASIN

12413250 SOUTH FORK COEUR D' ALENE RIVER AT KELLOGG, ID

LOCATION.--Lat 47°32'52", long 116°08'14", in SE¼NE¼SE¼, sec.36, T.49 N., R.2 E., Hydrologic Unit 17010302,in Shoshone County, on left bank 1200 ft. downstream from Bunker Ave. bridge, 0.3 miles downstream from Jackass Creek, 1.0 mi northwest of Kellogg city center, and at mile 6.7.

DRAINAGE AREA.--194 mi^2.

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--March 1999 to current year.

PERIOD OR DAILY RECORD.--
WATER TEMPERATURE: March 1999 to current year.
SPECIFIC CONDUCTANCE: March 1999 to current year.
TURBIDITY: March 1999 to current year.

INSTRUMENTATION.--Water-quality data recorder since March 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 23.5 °C Aug. 9, 2001; minimum, 0.0 °C many days during winter months.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 229 microsiemens/cm Feb. 19, 2001; minimum recorded daily mean, 43 microsiemens/cm May 25, 2000.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 23.5 °C Aug. 9; minimum, 0.0 °C many days during winter months.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 229 microsiemens/cm Feb. 19; minimum recorded daily mean, 61 microsiemens/cm May 14-15.
TURBIDITY: Maximum recorded >1,000 NTU Sept. 5; minimum recorded, <2 NTU on many days during the year.

REMARKS.--Turbidity data collected prior to 2001 water year not published.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.5	10.5	7.5	6.0	4.0	3.0	4.5	3.0	4.0	2.0	4.5	.0
2	11.0	8.0	7.5	5.0	3.5	2.0	3.5	2.0	3.5	2.0	5.0	2.5
3	11.5	8.0	7.0	4.0	4.5	3.5	3.5	2.5	4.5	2.0	5.5	2.0
4	12.0	7.5	5.5	4.5	---	---	4.5	3.0	2.5	1.0	7.0	1.0
5	11.0	6.0	6.5	5.0	3.5	2.0	5.0	3.5	3.5	2.5	6.5	3.5
6	11.0	5.0	6.5	4.5	3.5	2.5	4.0	1.5	4.0	2.0	8.0	3.0
7	12.0	5.5	6.0	3.5	3.5	2.5	2.0	.0	2.5	.0	8.0	2.5
8	12.0	6.0	5.0	4.0	4.0	2.5	2.0	.0	.5	.0	6.5	2.0
9	12.5	7.0	5.5	2.5	3.0	2.0	3.5	2.0	1.0	.0	5.5	4.0
10	11.5	8.5	3.0	1.0	2.5	1.5	4.0	2.0	3.5	.0	5.0	3.0
11	13.0	8.5	3.0	.0	---	---	3.0	1.0	3.5	.5	5.5	3.0
12	11.5	9.5	3.5	2.0	---	---	3.0	1.5	4.0	.0	7.0	3.5
13	10.0	9.0	3.5	.5	---	---	3.5	2.0	5.0	1.0	6.5	4.0
14	11.0	8.5	3.5	.5	2.0	.5	3.0	2.0	2.5	.0	5.5	3.5
15	10.5	7.5	3.0	1.0	---	---	3.0	1.0	3.5	.0	7.0	2.0
16	11.0	8.0	3.5	2.5	---	---	---	---	1.5	.0	5.0	4.0
17	13.0	9.0	4.0	2.0	2.0	1.0	---	---	4.5	.0	5.0	3.5
18	11.5	8.5	3.5	2.5	2.0	.0	2.5	.0	4.5	1.5	6.5	3.5
19	11.5	8.5	3.5	1.5	2.5	1.0	2.5	1.5	5.5	1.5	7.5	3.5
20	11.0	8.5	3.0	1.0	1.5	.0	3.0	1.0	5.5	.5	7.5	2.0
21	10.0	7.5	3.5	1.0	1.5	.0	3.0	1.0	4.5	2.0	7.5	2.0
22	9.5	6.5	3.0	1.5	3.0	1.0	4.5	2.5	6.0	3.0	8.0	2.0
23	9.0	5.0	---	---	4.0	2.5	3.0	.5	5.0	3.5	9.0	2.5
24	9.0	6.0	4.0	2.5	3.5	2.5	3.5	.5	5.0	3.0	9.0	3.5
25	9.0	6.0	4.5	3.0	4.0	2.5	4.0	2.0	5.5	1.5	6.0	4.5
26	10.0	6.0	5.0	3.5	4.0	3.0	3.0	1.0	5.0	.0	7.0	4.0
27	9.5	7.5	5.5	3.0	5.5	3.0	---	---	5.0	.0	7.0	3.0
28	9.0	6.5	3.0	2.0	3.5	2.5	---	---	5.5	.0	6.0	4.0
29	9.0	7.0	3.0	1.5	3.0	2.0	---	---	---	---	7.0	4.0
30	8.0	6.0	4.5	2.0	3.5	2.0	3.0	1.0	---	---	9.0	4.0
31	6.5	5.5	---	---	4.0	3.0	2.5	1.0	---	---	4.5	3.0
MONTH	13.5	5.0	---	---	---	---	---	---	6.0	.0	9.0	.0

SPOKANE RIVER BASIN

12413250 SOUTH FORK COEUR D' ALENE RIVER AT KELLOGG, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.5	3.5	5.5	4.5	15.5	8.5	20.0	13.5	20.0	11.5	17.5	12.5
2	5.0	3.5	8.0	4.0	12.0	8.5	20.5	12.5	22.0	13.0	20.0	12.0
3	5.5	3.5	10.0	4.0	8.5	6.5	21.0	12.5	21.5	13.5	20.0	11.5
4	7.5	2.0	11.5	5.0	9.0	7.0	22.0	14.0	19.0	13.5	20.0	11.5
5	8.5	2.5	9.0	6.0	10.0	6.5	19.0	15.0	21.5	12.5	16.0	12.5
6	7.5	4.5	10.5	4.5	11.5	8.0	17.0	12.0	23.0	13.5	15.5	10.0
7	6.5	4.5	11.0	4.5	13.0	7.5	20.5	11.5	23.0	14.5	17.5	10.0
8	5.5	3.0	10.5	5.5	13.0	8.0	21.5	13.0	22.5	14.0	16.5	9.0
9	5.5	4.0	10.5	6.0	13.5	9.5	22.0	13.5	23.5	14.0	17.5	9.5
10	6.5	4.0	10.5	5.5	11.0	9.0	22.5	14.0	22.5	14.0	17.5	10.0
11	6.0	4.0	11.5	5.0	11.0	7.5	20.0	14.0	22.5	13.5	18.5	10.5
12	7.0	4.0	11.0	6.5	9.5	7.5	20.0	14.0	22.0	13.5	19.5	11.0
13	6.5	3.5	10.5	7.0	10.5	7.0	21.0	14.0	21.0	15.5	19.5	11.5
14	9.0	3.5	7.5	6.0	11.5	8.0	21.5	13.5	22.5	14.0	20.0	12.0
15	11.0	3.0	9.0	6.0	14.0	8.0	19.5	13.5	23.0	14.0	19.5	11.5
16	12.0	4.0	7.5	5.5	15.0	7.5	15.0	12.5	22.0	14.0	19.5	11.5
17	10.5	6.0	9.0	5.0	13.5	8.0	16.0	11.0	22.0	14.0	17.0	13.0
18	7.5	5.5	8.0	6.0	15.5	8.0	17.5	11.0	21.0	13.5	17.5	11.0
19	11.0	5.0	9.5	5.5	17.0	8.5	18.5	12.0	20.5	12.0	14.5	10.0
20	8.0	4.0	11.5	6.0	17.5	9.5	20.5	12.0	20.0	11.5	16.5	9.0
21	11.0	4.0	12.0	5.0	18.5	10.5	18.0	14.0	20.0	11.5	15.0	9.5
22	9.0	4.5	14.0	6.5	18.5	11.5	17.5	13.0	17.5	13.5	17.5	9.5
23	8.0	6.0	14.0	7.5	16.5	11.5	21.5	12.5	17.0	13.0	18.0	10.5
24	11.0	5.5	14.5	8.0	13.5	11.5	19.5	13.5	19.0	12.5	18.5	11.0
25	12.5	5.5	13.5	8.0	17.0	10.0	21.5	13.0	20.0	11.0	16.5	11.0
26	10.5	5.5	13.5	7.5	16.0	11.0	21.5	12.5	21.0	11.5	15.5	12.0
27	10.5	5.5	13.0	7.5	14.0	12.0	21.5	13.0	21.0	12.5	16.5	12.5
28	7.5	5.5	12.5	9.0	17.0	11.5	16.5	13.0	18.0	12.5	15.5	11.0
29	7.0	4.5	10.5	7.0	19.5	11.5	16.0	12.5	21.0	12.0	15.5	9.5
30	6.0	5.0	11.0	5.5	19.5	12.0	17.5	11.0	21.0	12.5	15.5	8.5
31	---	---	15.0	7.0	---	---	18.0	12.5	20.5	12.5	---	---
MONTH	12.5	2.0	15.0	4.0	19.5	6.5	22.5	11.0	23.5	11.0	20.0	8.5

SPECIFIC CONDUCTANCE, MICROMHOS/CM AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	192	192	203	204	207	159	83	88	131	163	182
2	178	192	191	203	211	205	159	93	89	133	166	182
3	185	193	193	206	210	212	160	100	90	134	167	182
4	189	184	---	209	206	215	165	104	89	136	167	182
5	188	179	201	212	200	207	167	101	95	137	167	181
6	188	188	206	209	207	203	166	100	96	138	168	180
7	185	191	206	210	213	198	165	100	99	139	169	180
8	183	191	207	205	220	191	164	97	99	142	171	181
9	183	191	205	203	212	189	171	88	99	144	172	180
10	182	197	205	206	203	193	174	83	100	146	173	179
11	183	199	---	210	202	197	173	81	101	148	174	181
12	185	194	---	207	204	200	174	76	100	149	174	183
13	177	196	---	208	201	198	174	66	103	149	174	183
14	178	198	200	210	210	192	177	61	105	152	174	184
15	180	199	---	211	208	198	178	61	106	152	176	184
16	181	196	---	---	215	199	176	62	107	147	176	184
17	181	198	203	---	214	201	167	67	107	148	177	180
18	180	197	207	---	218	202	153	72	108	151	177	182
19	180	197	206	198	229	174	143	77	109	154	176	182
20	177	193	210	204	213	163	141	80	112	156	175	185
21	162	198	205	205	209	176	142	82	114	153	175	185
22	176	200	203	221	217	178	142	81	116	155	175	185
23	183	---	204	213	205	174	139	75	117	157	174	184
24	185	193	210	191	203	167	132	66	118	159	172	182
25	187	195	205	199	206	152	116	62	117	161	176	184
26	189	190	202	205	207	143	94	63	120	162	178	182
27	189	189	205	---	209	148	80	66	121	162	180	184
28	188	190	208	---	210	154	69	68	118	160	180	177
29	185	193	208	---	---	159	74	72	126	157	180	181
30	188	191	207	199	---	161	81	78	129	159	181	183
31	189	---	203	201	---	162	---	84	---	160	181	---
MEAN	182	---	---	---	210	184	146	79	107	149	174	182

12413250 SOUTH FORK COEUR D' ALENE RIVER AT KELLOGG, ID--Continued

TURBIDITY IN NTU, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	46.0	2.3	10.0	<2.0	<2.0	<2.0	4.1	<2.0	<2.0	11.0	6.0	11.0
2	8.6	<2.0	3.4	11.0	<2.0	<2.0	2.3	<2.0	<2.0	13.0	6.7	13.0
3	8.1	<2.0	2.4	4.6	<2.0	<2.0	<2.0	<2.0	<2.0	18.0	6.5	8.5
4	---	---	---	15.0	<2.0	7.8	6.2	<2.0	<2.0	21.0	11.0	14.0
5	---	---	---	9.1	<2.0	2.3	6.2	<2.0	<2.0	32.0	14.0	24.0
6	---	---	---	67.0	<2.0	<2.0	<2.0	<2.0	<2.0	120.0	9.0	30.0
7	---	---	---	3.8	<2.0	<2.0	2.5	<2.0	<2.0	12.0	9.8	12.0
8	---	---	---	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	14.0	11.0	14.0
9	---	---	---	4.8	<2.0	<2.0	<2.0	<2.0	<2.0	38.0	12.0	23.0
10	---	---	---	5.4	<2.0	<2.0	6.7	<2.0	<2.0	28.0	15.0	20.0
11	---	---	---	3.6	<2.0	<2.0	---	---	---	32.0	14.0	15.0
12	---	---	---	2.7	<2.0	<2.0	---	---	---	20.0	14.0	18.0
13	5.5	<2.0	2.2	9.4	<2.0	<2.0	---	---	---	13.0	11.0	14.0
14	7.9	<2.0	2.2	3.3	<2.0	<2.0	3.3	<2.0	<2.0	61.0	12.0	15.0
15	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	---	---	---	18.0	14.0	18.0
16	5.0	<2.0	<2.0	20.0	<2.0	<2.0	---	---	---	---	---	---
17	8.1	<2.0	<2.0	3.5	<2.0	<2.0	9.3	<2.0	2.0	---	---	---
18	6.3	<2.0	2.3	<2.0	<2.0	<2.0	17.0	<2.0	2.8	2.4	<2.0	<2.0
19	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	8.7	<2.0	3.4	3.0	<2.0	<2.0
20	16.0	<2.0	<2.0	<2.0	<2.0	<2.0	88.0	4.2	6.8	3.0	<2.0	<2.0
21	16.0	<2.0	4.6	9.7	<2.0	<2.0	13.0	4.6	9.7	<2.0	<2.0	<2.0
22	3.2	<2.0	<2.0	<2.0	<2.0	<2.0	21.0	6.3	9.3	5.1	<2.0	<2.0
23	19.0	<2.0	<2.0	---	---	---	22.0	5.5	8.3	6.1	<2.0	<2.0
24	3.0	<2.0	2.0	<2.0	<2.0	<2.0	48.0	8.3	24.0	<2.0	<2.0	<2.0
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	24.0	6.3	12.0	2.3	<2.0	<2.0
26	<2.0	<2.0	<2.0	5.4	<2.0	<2.0	70.0	6.1	13.0	5.8	<2.0	<2.0
27	150.0	<2.0	<2.0	5.0	<2.0	<2.0	76.0	11.0	22.0	---	---	---
28	3.8	<2.0	2.0	8.4	<2.0	<2.0	24.0	9.9	19.0	---	---	---
29	2.8	<2.0	<2.0	4.2	<2.0	<2.0	14.0	6.0	9.1	---	---	---
30	2.9	<2.0	<2.0	3.5	<2.0	<2.0	11.0	5.4	7.6	<2.0	<2.0	<2.0
31	4.9	<2.0	<2.0	---	---	---	14.0	4.8	6.3	6.2	<2.0	<2.0
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.8	<2.0	<2.0	5.9	<2.0	<2.0	2.7	<2.0	<2.0	12.0	3.6	6.9
2	14.0	2.2	4.6	2.0	<2.0	<2.0	6.5	<2.0	<2.0	9.1	<2.0	2.6
3	10.0	5.2	7.2	<2.0	<2.0	<2.0	6.0	<2.0	<2.0	48.0	<2.0	2.0
4	11.0	5.5	8.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.6	<2.0	<2.0
5	---	---	---	2.3	<2.0	<2.0	5.4	<2.0	<2.0	3.4	<2.0	<2.0
6	---	---	---	<2.0	<2.0	<2.0	2.3	<2.0	<2.0	200.0	<2.0	<2.0
7	---	---	---	<2.0	<2.0	<2.0	3.3	<2.0	<2.0	8.5	<2.0	<2.0
8	---	---	---	12.0	<2.0	<2.0	3.3	<2.0	<2.0	4.6	<2.0	<2.0
9	---	---	---	5.3	<2.0	<2.0	3.4	<2.0	<2.0	2.0	<2.0	<2.0
10	---	---	---	2.9	<2.0	<2.0	4.9	<2.0	<2.0	5.0	<2.0	<2.0
11	---	---	---	3.4	<2.0	<2.0	11.0	<2.0	<2.0	2.8	<2.0	<2.0
12	---	---	---	<2.0	<2.0	<2.0	3.8	<2.0	<2.0	4.1	<2.0	<2.0
13	---	---	---	29.0	<2.0	<2.0	5.5	<2.0	<2.0	12.0	3.4	6.4
14	---	---	---	3.3	<2.0	<2.0	4.2	<2.0	<2.0	13.0	6.7	9.1
15	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	19.0	6.7	8.9
16	<2.0	<2.0	<2.0	7.9	<2.0	<2.0	<2.0	<2.0	<2.0	13.0	3.8	7.7
17	3.1	<2.0	<2.0	6.4	<2.0	<2.0	4.3	<2.0	<2.0	4.5	<2.0	3.1
18	7.0	<2.0	<2.0	7.8	<2.0	<2.0	6.3	<2.0	2.6	41.0	<2.0	2.3
19	8.9	<2.0	<2.0	120.0	2.7	16.0	5.6	<2.0	2.9	5.0	<2.0	<2.0
20	9.4	<2.0	<2.0	16.0	<2.0	2.6	3.6	<2.0	<2.0	5.3	<2.0	<2.0
21	20.0	<2.0	<2.0	<2.0	<2.0	<2.0	7.1	<2.0	<2.0	3.4	<2.0	<2.0
22	18.0	<2.0	2.3	2.1	<2.0	<2.0	3.3	<2.0	<2.0	2.2	<2.0	<2.0
23	4.3	<2.0	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	3.0	<2.0	<2.0
24	7.2	<2.0	<2.0	2.2	<2.0	<2.0	7.0	<2.0	<2.0	7.8	<2.0	3.0
25	<2.0	<2.0	<2.0	5.3	<2.0	<2.0	16.0	4.6	8.8	7.0	2.4	4.0
26	9.7	<2.0	<2.0	4.9	<2.0	<2.0	42.0	8.9	17.0	11.0	<2.0	3.3
27	<2.0	<2.0	<2.0	6.2	<2.0	<2.0	62.0	9.4	18.0	5.4	<2.0	2.0
28	8.3	<2.0	<2.0	8.5	<2.0	<2.0	91.0	11.0	22.0	7.5	<2.0	2.1
29	---	---	---	16.0	<2.0	<2.0	14.0	3.1	6.1	4.0	<2.0	<2.0
30	---	---	---	<2.0	<2.0	<2.0	13.0	2.4	6.6	8.4	<2.0	<2.0
31	---	---	---	8.4	<2.0	<2.0	---	---	---	3.3	<2.0	<2.0
MAX	---	---	---	120.0	2.7	16.0	91.0	11.0	22.0	200.0	6.7	9.1
MIN	---	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

< Actual value is known to be less than the value shown

SPOKANE RIVER BASIN

12413250 SOUTH FORK COEUR D' ALENE RIVER AT KELLOGG, ID--Continued

TURBIDITY IN NTU, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	32.0	<2.0	<2.0	8.1	<2.0	2.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2	<2.0	<2.0	<2.0	8.6	<2.0	3.3	2.1	<2.0	<2.0	<2.0	<2.0	<2.0
3	8.1	<2.0	<2.0	11.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.8	<2.0	<2.0
4	5.8	<2.0	<2.0	190.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0
5	<2.0	<2.0	<2.0	64.0	<2.0	<2.0	2.4	<2.0	<2.0	>1000.0	<2.0	<2.0
6	<2.0	<2.0	<2.0	150.0	<2.0	<2.0	2.2	<2.0	<2.0	12.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	12.0	<2.0	<2.0
8	2.5	<2.0	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	5.7	<2.0	<2.0
9	4.2	<2.0	<2.0	<2.0	<2.0	<2.0	2.2	<2.0	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	4.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
12	4.6	<2.0	<2.0	2.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.3	<2.0	<2.0	<2.0	<2.0	<2.0
14	5.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	7.3	<2.0	<2.0	<2.0	<2.0	<2.0	5.9	<2.0	<2.0	4.9	<2.0	<2.0
16	<2.0	<2.0	<2.0	8.5	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	<2.0
17	12.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	8.1	<2.0	<2.0
18	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	33.0	<2.0	<2.0	<2.0	<2.0	<2.0
19	3.3	<2.0	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	27.0	<2.0	<2.0	4.2	<2.0	<2.0
22	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
23	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	6.4	<2.0	<2.0
24	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.6	<2.0	<2.0	<2.0	<2.0	<2.0
25	3.9	<2.0	<2.0	6.4	<2.0	<2.0	<2.0	<2.0	<2.0	14.0	<2.0	<2.0
26	3.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
27	20.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	8.0	<2.0	<2.0
28	10.0	<2.0	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	15.0	<2.0	<2.0
29	4.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	<2.0
30	3.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	6.8	<2.0	<2.0
31	---	---	---	8.6	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	---
MAX	32.0	<2.0	<2.0	190.0	<2.0	3.3	33.0	<2.0	<2.0	>1000.0	<2.0	<2.0
MIN	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

< Actual value is known to be less than the value shown
> Actual value is known to be greater than the value shown

SPOKANE RIVER BASIN

12413300 SOUTH FORK COEUR D' ALENE RIVER AT SMELTERVILLE, ID

LOCATION.--Lat. 47°32'54", long. 116°10'28", in SE¼NW¼SW¼ sec.35, T.49 N., R.2 E., Hydrologic Unit 17010302, in Shoshone County, on left bank at county road bridge, 0.2 miles downstream from Government Gulch, 0.3 miles north of Smelterville, and at mile 5.1.

DRAINAGE AREA.--202 mi^2.

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: March 1999 to current year.
SPECIFIC CONDUCTANCE: March 1999 to current year.
TURBIDITY: March 1999 to current year.

INSTRUMENTATION.--Water-quality data recorder since March 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 23.0 °C July 29, 2000, July 10, 2001; minimum, 0.0 °C many days during winter months.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 521 microsiemens/cm Dec. 12, 2000; minimum recorded daily mean, 60 microsiemens/cm May 25, June 17, 1999.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 23.0 °C July 10; minimum, 0.0 °C many days during winter months.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 521 microsiemens/cm Dec. 12; minimum recorded daily mean, 78 microsiemens/cm May 14.
TURBIDITY: Maximum recorded 850 NTU October 12; minimum recorded, <2 NTU on many days during the year.

REMARKS.--Turbidity data collected prior to 2001 water year not published. Missing data due to vandalism.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.5	11.0	8.5	6.0	5.0	3.5	4.5	3.0	4.0	2.0	4.5	.0
2	11.5	8.5	8.5	5.5	3.5	2.5	3.5	2.0	3.5	2.0	5.5	3.0
3	12.0	8.0	7.5	4.5	5.5	3.5	3.5	2.5	4.5	2.5	6.5	2.5
4	12.5	7.5	6.0	4.5	4.0	2.0	4.5	3.0	2.5	1.0	7.5	1.5
5	12.0	6.5	7.0	5.5	3.5	2.0	5.0	4.0	4.0	2.5	7.0	4.0
6	11.5	5.5	8.0	4.5	4.5	3.0	4.5	2.0	5.0	2.0	8.5	3.0
7	12.5	5.5	6.0	4.0	3.5	3.0	2.5	.5	3.0	.0	9.0	3.0
8	12.5	6.5	5.5	4.0	4.0	3.0	2.0	.0	.5	.0	7.0	2.5
9	12.5	7.0	5.5	2.5	3.0	2.0	4.0	2.0	.5	.0	5.5	4.0
10	11.5	9.0	3.5	1.0	3.0	1.5	4.0	2.0	3.0	.0	5.5	3.5
11	13.5	9.0	3.0	.0	2.0	.0	3.0	1.0	4.0	.5	5.5	3.0
12	11.5	10.0	4.0	2.0	.5	.0	3.0	1.5	3.5	.0	7.0	4.0
13	10.0	9.5	4.0	1.0	.5	.0	4.0	2.0	6.0	1.5	7.0	4.0
14	11.0	9.0	3.5	.5	1.5	.0	3.0	2.5	2.0	.0	5.5	3.5
15	11.5	7.5	3.0	1.5	.5	.0	3.0	1.0	3.0	.0	7.5	2.5
16	11.5	8.5	3.5	3.0	.5	.0	2.5	.5	1.0	.0	5.5	4.0
17	13.5	9.5	4.0	2.5	2.0	.5	2.5	.0	4.5	.0	5.5	3.5
18	11.5	9.0	3.5	2.5	2.0	.0	2.5	.5	4.5	2.0	6.5	3.5
19	12.5	9.0	4.5	2.0	2.0	1.0	2.5	2.0	6.0	2.0	8.0	3.5
20	11.5	9.0	4.0	1.0	1.5	.0	4.0	1.5	6.0	1.0	8.0	2.5
21	10.5	7.5	4.0	1.0	1.5	.0	3.0	1.0	5.0	2.0	8.0	2.5
22	10.0	7.0	4.0	1.5	2.5	1.0	5.0	2.5	6.5	3.5	9.0	2.5
23	10.0	5.5	3.0	1.5	4.5	2.5	4.0	1.0	5.0	3.5	9.5	3.0
24	10.0	6.5	4.0	2.5	3.5	2.5	3.5	1.0	5.0	3.0	9.5	3.5
25	9.5	6.0	4.5	3.0	4.0	2.5	4.0	2.5	6.0	2.0	6.0	5.0
26	10.0	6.5	5.5	3.5	4.5	3.0	4.0	1.0	5.5	.5	7.0	4.5
27	10.0	8.0	5.5	3.0	5.5	3.5	2.5	.0	5.5	.0	7.5	3.5
28	9.0	7.0	4.0	2.0	4.0	2.5	3.0	.0	6.0	.0	6.0	4.0
29	10.0	7.5	3.0	1.5	3.0	2.0	2.0	.5	---	---	8.0	4.5
30	9.0	6.5	4.5	2.5	3.5	2.0	3.0	1.5	---	---	9.5	4.5
31	6.5	6.0	---	---	4.0	3.0	2.5	1.0	---	---	5.0	3.5
MONTH	14.5	5.5	8.5	.0	5.5	.0	5.0	.0	6.5	.0	9.5	.0

SPOKANE RIVER BASIN

12413300 SOUTH FORK COEUR D' ALENE RIVER AT SMELTERVILLE, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.0	4.0	6.0	4.5	15.5	8.5	21.0	14.0	---	---	---	---
2	5.5	4.0	8.0	4.0	12.5	9.0	21.0	13.0	---	---	---	---
3	5.5	3.5	10.5	4.0	9.0	7.0	21.5	13.0	---	---	---	---
4	8.0	2.0	11.5	5.5	9.0	7.5	22.5	14.5	---	---	---	---
5	8.5	2.5	9.5	6.5	10.5	6.5	19.5	15.5	---	---	---	---
6	7.5	4.5	10.5	4.5	11.5	8.0	17.5	12.5	---	---	---	---
7	6.5	4.5	11.0	4.5	13.5	7.5	21.0	12.0	---	---	---	---
8	5.5	3.5	11.0	5.5	13.5	8.5	22.0	13.5	---	---	---	---
9	5.5	4.0	10.5	6.5	14.0	10.0	22.5	14.0	---	---	---	---
10	6.5	4.0	11.0	5.5	11.5	9.5	23.0	14.5	---	---	---	---
11	6.0	4.0	12.0	5.5	11.5	7.5	20.5	14.5	---	---	---	---
12	7.0	4.0	11.0	6.5	10.0	8.0	21.0	14.0	---	---	---	---
13	6.5	4.0	11.0	7.0	10.5	7.5	21.5	14.5	---	---	---	---
14	9.0	3.5	8.5	6.0	11.5	8.0	22.0	14.0	---	---	---	---
15	11.5	3.5	9.0	6.0	15.0	8.5	20.0	14.0	---	---	20.0	12.5
16	12.0	4.5	8.0	6.0	16.0	8.0	16.5	13.5	---	---	20.0	12.5
17	11.0	6.5	9.0	5.0	14.0	8.5	16.5	11.0	---	---	18.0	14.0
18	8.5	6.0	8.5	6.0	16.5	8.5	17.5	11.0	---	---	18.5	12.0
19	11.5	5.5	10.0	5.5	17.5	9.0	20.0	12.0	---	---	16.5	11.0
20	8.0	4.5	12.0	6.0	18.0	10.0	21.0	12.5	---	---	17.5	9.5
21	11.5	4.5	12.5	5.5	19.0	11.0	18.0	14.0	---	---	15.0	10.0
22	8.5	5.0	14.5	6.5	19.5	12.0	---	---	---	---	18.5	10.0
23	8.0	6.0	14.5	7.5	17.0	12.0	---	---	---	---	19.0	11.0
24	11.5	5.5	15.0	8.0	14.5	12.0	---	---	---	---	19.0	12.0
25	13.0	5.5	14.0	8.0	17.5	10.5	---	---	---	---	17.0	12.0
26	11.0	5.5	14.0	7.5	17.0	11.5	---	---	---	---	16.0	12.5
27	11.0	5.5	13.5	8.0	15.0	12.5	---	---	---	---	17.0	12.5
28	8.0	5.5	13.0	9.0	17.0	12.0	---	---	---	---	16.5	12.5
29	7.0	4.5	11.0	7.0	20.0	12.0	---	---	---	---	16.5	10.0
30	6.0	5.5	11.5	6.0	20.0	12.5	---	---	---	---	16.5	9.5
31	---	---	15.5	7.0	---	---	---	---	---	---	---	---
MONTH	13.0	2.0	15.5	4.0	20.0	6.5	---	---	---	---	---	---

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	269	372	368	256	303	397	204	111	141	236	---	---
2	318	375	318	306	411	387	244	123	107	240	---	---
3	328	336	279	366	413	399	247	135	121	245	---	---
4	355	241	395	352	407	404	254	138	123	217	---	---
5	306	279	411	369	366	359	249	111	114	186	---	---
6	269	307	431	372	313	376	200	109	146	254	---	---
7	365	307	407	393	327	290	191	124	156	261	---	---
8	372	330	429	354	455	265	220	129	157	235	---	---
9	371	347	350	282	407	305	245	114	159	224	---	---
10	378	309	364	380	327	312	224	104	165	250	---	---
11	379	278	429	412	258	326	198	103	169	186	---	---
12	345	373	521	407	294	333	225	87	170	204	---	---
13	362	382	384	408	257	287	248	84	173	220	---	---
14	322	385	417	408	324	251	260	78	179	186	---	---
15	283	391	432	337	330	272	270	81	170	198	---	260
16	365	384	458	316	342	261	273	84	132	260	---	412
17	370	338	391	412	329	308	263	95	192	250	---	388
18	296	297	347	430	382	314	236	108	192	223	---	399
19	309	397	332	408	361	241	204	107	193	217	---	397
20	364	399	429	416	426	230	208	104	160	288	---	389
21	291	393	437	355	431	227	171	123	158	287	---	324
22	322	392	339	335	321	228	220	122	202	---	---	286
23	338	328	406	413	275	261	216	118	203	---	---	404
24	352	243	339	416	326	240	206	102	205	---	---	403
25	301	257	312	403	390	210	177	94	203	---	---	402
26	284	360	423	417	361	214	143	103	208	---	---	382
27	378	290	385	387	341	223	117	80	210	---	---	339
28	374	259	356	405	311	233	81	102	201	---	---	351
29	359	343	329	461	---	242	103	111	199	---	---	325
30	368	349	264	407	---	250	114	120	158	---	---	335
31	375	---	259	330	---	229	---	134	---	---	---	---
MEAN	338	335	379	378	350	286	207	108	169	---	---	---

12413300 SOUTH FORK COEUR D' ALENE RIVER AT SMELTERVILLE, ID--Continued

TURBIDITY IN NTU, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	87.0	6.3	11.0	73.0	2.4	3.8	---	---	---	16.0	<2.0	2.6
2	16.0	5.0	7.8	6.7	2.8	3.7	---	---	---	5.5	<2.0	2.5
3	27.0	4.6	6.8	13.0	3.0	4.8	---	---	---	9.9	<2.0	2.9
4	21.0	<2.0	<2.0	74.0	3.5	8.7	---	---	---	13.0	<2.0	4.1
5	4.8	<2.0	<2.0	31.0	2.8	5.7	---	---	---	7.8	2.0	2.9
6	13.0	<2.0	<2.0	5.4	2.9	3.3	13.0	<2.0	<2.0	11.0	<2.0	2.5
7	---	---	---	5.3	3.0	3.9	13.0	<2.0	<2.0	12.0	<2.0	2.3
8	<2.0	<2.0	<2.0	8.5	3.4	4.9	5.1	<2.0	<2.0	4.8	<2.0	<2.0
9	---	---	---	15.0	3.6	4.7	11.0	<2.0	<2.0	9.5	<2.0	<2.0
10	9.1	<2.0	<2.0	5.8	3.5	4.0	13.0	<2.0	<2.0	6.4	<2.0	<2.0
11	7.4	<2.0	<2.0	8.8	3.6	4.8	8.1	<2.0	<2.0	6.4	<2.0	<2.0
12	850.0	<2.0	<2.0	13.0	2.2	6.1	14.0	<2.0	2.5	4.6	<2.0	<2.0
13	46.0	<2.0	<2.0	4.1	<2.0	2.2	12.0	<2.0	2.8	2.9	<2.0	<2.0
14	25.0	<2.0	<2.0	140.0	<2.0	2.8	6.8	<2.0	2.6	4.3	<2.0	<2.0
15	5.5	<2.0	<2.0	6.1	2.0	2.4	260.0	<2.0	4.6	5.4	<2.0	<2.0
16	2.6	<2.0	<2.0	7.3	2.0	2.5	21.0	<2.0	2.5	3.2	<2.0	<2.0
17	32.0	<2.0	<2.0	4.1	2.2	2.7	15.0	<2.0	3.2	13.0	<2.0	<2.0
18	34.0	<2.0	<2.0	6.0	2.6	3.4	3.3	<2.0	<2.0	17.0	<2.0	<2.0
19	32.0	<2.0	2.1	12.0	2.7	3.6	3.2	<2.0	<2.0	19.0	<2.0	<2.0
20	21.0	<2.0	2.4	6.9	2.8	3.9	6.3	<2.0	<2.0	7.5	<2.0	<2.0
21	36.0	2.0	8.0	6.4	2.5	3.3	8.3	<2.0	2.2	4.2	<2.0	2.1
22	5.2	<2.0	<2.0	8.6	3.2	4.0	3.7	<2.0	<2.0	10.0	2.0	3.0
23	7.9	<2.0	<2.0	16.0	3.2	4.0	3.5	<2.0	<2.0	5.2	<2.0	2.8
24	40.0	<2.0	3.0	16.0	3.6	4.7	3.9	<2.0	2.4	7.4	<2.0	<2.0
25	11.0	2.0	3.5	7.7	4.1	4.7	3.7	<2.0	<2.0	3.5	<2.0	<2.0
26	23.0	<2.0	2.7	7.9	4.5	5.9	24.0	<2.0	<2.0	6.2	<2.0	<2.0
27	20.0	<2.0	2.9	15.0	4.9	7.9	13.0	<2.0	<2.0	8.8	<2.0	<2.0
28	8.7	<2.0	3.3	11.0	5.8	6.8	4.0	<2.0	<2.0	9.7	<2.0	<2.0
29	6.4	<2.0	2.7	24.0	5.6	8.9	11.0	<2.0	<2.0	54.0	<2.0	<2.0
30	4.4	<2.0	2.5	14.0	6.1	8.0	12.0	<2.0	<2.0	3.8	<2.0	<2.0
31	12.0	2.1	4.2	---	---	---	12.0	<2.0	<2.0	2.1	<2.0	<2.0
MAX	---	---	---	140.0	6.1	8.9	---	---	---	54.0	<2.0	4.1
MIN	---	---	---	4.1	<2.0	2.2	---	---	---	2.1	<2.0	<2.0

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.4	<2.0	<2.0	---	---	---	6.0	2.0	3.6	17.0	5.5	9.9
2	5.2	<2.0	<2.0	---	---	---	17.0	<2.0	3.0	9.3	3.2	5.1
3	2.0	<2.0	<2.0	4.9	<2.0	<2.0	7.0	<2.0	<2.0	6.7	2.5	3.7
4	5.4	<2.0	<2.0	---	---	---	7.0	2.2	<2.0	6.1	<2.0	2.9
5	10.0	<2.0	2.8	4.6	<2.0	<2.0	8.9	<2.0	<2.0	9.3	<2.0	2.4
6	3.9	<2.0	<2.0	4.1	<2.0	<2.0	8.6	<2.0	<2.0	4.7	<2.0	<2.0
7	21.0	<2.0	<2.0	12.0	<2.0	3.4	340.0	<2.0	5.1	2.8	<2.0	<2.0
8	7.1	<2.0	<2.0	15.0	2.1	5.5	45.0	<2.0	3.9	3.3	<2.0	<2.0
9	3.2	<2.0	<2.0	20.0	2.9	6.2	520.0	<2.0	<2.0	4.3	<2.0	2.1
10	9.6	<2.0	<2.0	---	---	---	75.0	<2.0	<2.0	3.8	<2.0	2.0
11	4.2	<2.0	<2.0	---	---	---	5.0	<2.0	<2.0	5.5	<2.0	<2.0
12	10.0	<2.0	<2.0	---	---	---	4.2	<2.0	<2.0	5.6	<2.0	2.9
13	3.2	<2.0	<2.0	---	---	---	5.3	<2.0	<2.0	13.0	2.2	7.3
14	4.2	<2.0	<2.0	---	---	---	3.0	<2.0	<2.0	16.0	7.5	11.0
15	9.8	<2.0	<2.0	---	---	---	6.9	<2.0	<2.0	19.0	8.8	11.0
16	20.0	<2.0	2.3	9.1	<2.0	3.5	2.1	<2.0	<2.0	15.0	5.1	9.2
17	24.0	<2.0	<2.0	9.4	<2.0	2.3	5.4	<2.0	<2.0	7.7	2.7	4.0
18	5.7	<2.0	<2.0	9.4	<2.0	2.2	11.0	<2.0	2.6	8.7	<2.0	2.6
19	4.5	<2.0	<2.0	170.0	4.4	31.0	8.5	<2.0	2.7	5.8	<2.0	<2.0
20	5.9	<2.0	<2.0	20.0	2.9	5.1	4.6	<2.0	<2.0	3.4	<2.0	<2.0
21	8.1	<2.0	2.2	7.8	<2.0	2.9	4.0	<2.0	<2.0	2.9	<2.0	<2.0
22	12.0	<2.0	3.6	4.6	<2.0	2.5	11.0	<2.0	<2.0	2.8	<2.0	<2.0
23	7.1	2.1	3.4	6.3	<2.0	2.1	13.0	<2.0	2.0	65.0	<2.0	2.0
24	4.2	<2.0	2.7	4.4	<2.0	<2.0	6.4	<2.0	<2.0	6.5	2.3	3.8
25	3.2	<2.0	<2.0	9.3	<2.0	3.6	56.0	<2.0	12.0	13.0	3.0	4.6
26	6.6	<2.0	<2.0	10.0	2.6	4.0	82.0	15.0	34.0	6.0	2.6	3.4
27	2.2	<2.0	<2.0	7.2	<2.0	2.3	300.0	25.0	52.0	15.0	<2.0	2.9
28	---	---	---	5.7	<2.0	2.1	78.0	22.0	44.0	7.9	<2.0	2.5
29	---	---	---	6.4	<2.0	2.4	23.0	7.0	11.0	3.6	<2.0	<2.0
30	---	---	---	3.3	<2.0	<2.0	27.0	6.8	12.0	17.0	<2.0	<2.0
31	---	---	---	6.9	<2.0	2.8	---	---	---	14.0	<2.0	<2.0
MAX	---	---	---	---	---	---	520.0	25.0	52.0	65.0	8.8	11.0
MIN	---	---	---	---	---	---	2.1	<2.0	<2.0	2.8	<2.0	<2.0

< Actual value is known to be less than the value shown

SPOKANE RIVER BASIN

12413300 SOUTH FORK COEUR D' ALENE RIVER AT SMELTERVILLE, ID--Continued

TURBIDITY IN NTU, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.9	<2.0	<2.0	2.1	<2.0	<2.0	---	---	---	---	---	---
2	7.2	<2.0	<2.0	3.4	<2.0	<2.0	---	---	---	---	---	---
3	3.7	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	---	---	---	---
4	5.2	<2.0	<2.0	4.5	<2.0	<2.0	---	---	---	---	---	---
5	3.5	<2.0	<2.0	3.1	<2.0	<2.0	---	---	---	---	---	---
6	2.9	<2.0	<2.0	43.0	<2.0	<2.0	---	---	---	---	---	---
7	<2.0	<2.0	<2.0	4.5	<2.0	<2.0	---	---	---	---	---	---
8	3.5	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	---	---	---	---
9	3.5	<2.0	<2.0	3.2	<2.0	<2.0	---	---	---	---	---	---
10	<2.0	<2.0	<2.0	2.8	<2.0	<2.0	---	---	---	---	---	---
11	12.0	<2.0	<2.0	2.7	<2.0	<2.0	---	---	---	---	---	---
12	12.0	<2.0	2.1	17.0	<2.0	<2.0	---	---	---	---	---	---
13	4.7	<2.0	<2.0	6.2	<2.0	<2.0	---	---	---	---	---	---
14	12.0	<2.0	<2.0	2.0	<2.0	<2.0	---	---	---	---	---	---
15	6.2	<2.0	<2.0	7.2	<2.0	<2.0	---	---	---	2.8	<2.0	<2.0
16	<2.0	<2.0	<2.0	13.0	<2.0	<2.0	---	---	---	3.5	<2.0	<2.0
17	2.8	<2.0	<2.0	4.1	<2.0	<2.0	---	---	---	7.3	<2.0	<2.0
18	<2.0	<2.0	<2.0	7.6	<2.0	<2.0	---	---	---	2.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	130.0	<2.0	<2.0	---	---	---	6.2	<2.0	<2.0
20	4.1	<2.0	<2.0	21.0	7.0	11.0	---	---	---	3.7	<2.0	<2.0
21	3.7	<2.0	<2.0	20.0	8.1	13.0	---	---	---	3.7	<2.0	<2.0
22	9.4	<2.0	<2.0	---	---	---	---	---	---	3.3	<2.0	<2.0
23	7.2	<2.0	<2.0	---	---	---	---	---	---	2.2	<2.0	<2.0
24	12.0	<2.0	5.6	---	---	---	---	---	---	4.2	<2.0	<2.0
25	140.0	<2.0	9.2	---	---	---	---	---	---	11.0	<2.0	2.4
26	89.0	<2.0	7.1	---	---	---	---	---	---	10.0	<2.0	3.3
27	99.0	3.3	6.1	---	---	---	---	---	---	11.0	<2.0	3.5
28	9.2	<2.0	2.5	---	---	---	---	---	---	23.0	2.4	6.9
29	11.0	<2.0	<2.0	---	---	---	---	---	---	6.4	<2.0	2.6
30	4.7	<2.0	<2.0	---	---	---	---	---	---	9.1	<2.0	2.2
31	---	---	---	---	---	---	---	---	---	---	---	---
MAX	140.0	3.3	9.2	---	---	---	---	---	---	---	---	---
MIN	<2.0	<2.0	<2.0	---	---	---	---	---	---	---	---	---

< Actual value is known to be less than the value shown

SPOKANE RIVER BASIN

12413360 EAST FORK PINE CREEK ABOVE GILBERT CREEK NEAR PINEHURST, ID

LOCATION.--Lat 47°26'25", long 116°10'27", in SW¼NE¼NW¼ sec.11, T.47 N., R.2 E., Shoshone County, Hydrologic Unit 17010302, on right bank, 20 ft downstream from forest road culvert, 1,200 ft upstream from Gilbert Creek, and approximately 7 mi southeast of Pinehurst.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 2,960 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 181 ft³/s Apr. 13. 14, 2000, gage height, 6.02 ft; minimum daily, 0.39 ft³/s Dec. 12, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 52 ft³/s May 1; minimum daily, 0.39 ft³/s Dec. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	.53	.51	.44	.51	.76	4.5	52	5.2	1.6	.96	.58
2	.66	.51	.48	.43	.53	.80	4.4	32	4.6	1.5	.94	.59
3	.58	.48	.48	.44	.52	.75	4.2	20	4.4	1.5	.93	.56
4	.55	.89	.47	.52	.65	.71	3.7	16	4.6	1.5	.93	.56
5	.53	.79	.46	.61	.78	.83	3.5	16	4.0	1.5	.92	.58
6	.53	.61	.44	.70	.67	1.3	3.5	15	3.7	1.5	.87	.57
7	.53	.54	.44	.60	.63	1.8	3.5	14	3.4	1.4	.86	.56
8	.53	.56	.44	.56	.60	2.3	3.4	14	3.2	1.4	.82	.55
9	.53	.55	.44	.53	.58	2.5	3.1	16	3.4	1.3	.80	.53
10	.53	.49	.44	.53	.58	2.3	3.1	17	3.0	1.3	.78	.52
11	.53	.48	.43	.49	.57	1.9	3.0	17	2.9	1.3	.75	.52
12	.51	.48	.39	.51	.53	1.7	3.0	20	3.1	1.2	.73	.51
13	.53	.48	.40	.48	.53	2.0	2.9	29	3.0	1.2	.74	.51
14	.53	.47	.42	.48	.53	2.4	2.7	28	2.8	1.2	.73	.51
15	.52	.46	.45	.46	.53	2.1	2.7	45	2.7	1.2	.71	.50
16	.51	.47	.42	.44	.53	2.0	2.9	43	2.5	1.5	.68	.50
17	.51	.46	.45	.44	.52	1.8	4.1	31	2.4	1.2	.67	.53
18	.52	.45	.41	.44	.67	2.0	6.4	22	2.3	1.2	.67	.51
19	.53	.44	.43	.45	.59	12	7.0	17	2.2	1.1	.66	.48
20	.60	.44	.40	.44	.58	7.9	6.9	14	2.1	1.1	.66	.49
21	1.3	.44	.40	.47	.62	5.7	6.5	12	2.1	1.1	.64	.44
22	.62	.44	.42	.49	.78	5.1	6.7	11	2.0	1.1	.64	.43
23	.55	.44	.43	.50	.89	5.1	7.3	12	2.0	1.1	.66	.42
24	.53	.46	.45	.53	.88	5.9	10	13	1.9	1.1	.67	.42
25	.53	.45	.43	.53	.81	8.5	18	12	2.0	1.0	.63	.45
26	.53	.48	.43	.53	.75	9.0	32	11	1.9	1.0	.63	.53
27	.52	.59	.44	.52	.72	6.6	41	9.0	2.2	.97	.62	.51
28	.58	.46	.43	.50	.73	5.4	47	7.9	2.0	1.0	.63	.65
29	.69	.52	.42	.52	---	4.8	34	6.7	1.7	1.0	.62	.50
30	.55	.58	.42	.52	---	4.4	36	6.0	1.7	.96	.61	.47
31	.53	---	.44	.53	---	4.3	---	5.5	---	.97	.59	---
TOTAL	18.49	15.44	13.51	15.63	17.81	114.65	317.0	584.1	85.0	38.00	22.75	15.48
MEAN	.60	.51	.44	.50	.64	3.70	10.6	18.8	2.83	1.23	.73	.52
MAX	1.3	.89	.51	.70	.89	12	47	52	5.2	1.6	.96	.65
MIN	.51	.44	.39	.43	.51	.71	2.7	5.5	1.7	.96	.59	.42
AC-FT	37	31	27	31	35	227	629	1160	169	75	45	31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	.60	.51	4.10	2.12	4.67	7.28	26.8	24.1	6.54	1.63	.78	.58
MAX	.60	.51	7.76	3.74	8.57	10.9	43.1	29.3	10.3	2.04	.84	.65
(WY)	2001	2001	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	.60	.51	.44	.50	.64	3.70	10.6	18.8	2.83	1.23	.73	.52
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL TOTAL	3366.22		1257.86			
ANNUAL MEAN	9.20		3.45		3.45	
HIGHEST ANNUAL MEAN					3.45	2001
LOWEST ANNUAL MEAN					3.45	2001
HIGHEST DAILY MEAN	109	Apr 14	52	May 1	109	Apr 14 2000
LOWEST DAILY MEAN	.39	Dec 12	.39	Dec 12	.39	Dec 12 2000
ANNUAL SEVEN-DAY MINIMUM	.42	Dec 16	.42	Dec 16	.42	Dec 16 2000
ANNUAL RUNOFF (AC-FT)	6680		2490		2500	
10 PERCENT EXCEEDS	28		8.7		20	
50 PERCENT EXCEEDS	2.8		.68		2.0	
90 PERCENT EXCEEDS	.46		.44		.48	

SPOKANE RIVER BASIN

12413360 EAST FORK PINE CREEK ABOVE GILBERT CREEK NEAR PINEHURST, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 2000 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: March 2000 to current year.
SPECIFIC CONDUCTANCE: March 2000 to current year.
TURBIDITY: March 2000 to current year.

INSTRUMENTATION.--Water-quality data recorder since March 2000.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 14.5 °C Aug. 1, 2000; minimum 0.5 °C, many days during winter months.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 28 microsiemens/cm, Aug. 17-18, 22-24, 27-28, Sep. 3-4, 24, 2001; minimum recorded daily mean, 9 microsiemens/cm, April 14, July 6, 16, 2000.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 13.5 °C July 9-10, 14, Aug. 7, 9-11, 14-18; minimum 0.5 °C, many days during winter months..
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 28 microsiemens/cm Aug. 17-18, 22-24, 27-28, Sep. 3-4, 24; minimum recorded daily mean, 12 microsiemens/cm April 28, May 1.
TURBIDITY: Maximum recorded 380 NTU October 2; minimum recorded, <2 NTU on many days during the year.

REMARKS.--Turbidity data collected prior to 2001 water year not published.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	9.0	8.5	5.5	5.0	2.0	2.0	2.0	1.5	1.5	1.0	1.5	.5
2	8.5	8.0	5.0	5.0	2.0	2.0	2.0	1.5	1.5	1.0	1.5	1.0
3	8.0	7.5	5.0	4.5	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.0
4	7.5	7.0	5.0	4.5	2.0	1.5	2.0	2.0	1.5	1.0	2.0	1.0
5	7.5	6.5	5.0	4.5	2.0	2.0	2.5	2.0	2.0	1.5	2.0	1.5
6	7.0	6.5	4.5	4.0	2.0	1.5	2.0	1.5	1.5	1.5	2.5	1.5
7	7.0	6.0	4.0	4.0	2.0	2.0	1.5	1.0	1.5	.5	2.5	1.5
8	7.0	6.5	4.0	3.5	2.0	2.0	1.5	1.0	.5	.5	2.5	2.0
9	7.5	6.5	4.0	3.5	2.0	1.5	2.0	1.5	.5	.5	2.5	2.0
10	7.5	7.0	3.5	3.0	1.5	1.5	2.0	1.5	1.0	.5	2.5	2.0
11	7.5	7.0	3.0	2.0	1.5	1.0	1.5	1.5	1.0	1.0	2.5	2.0
12	7.5	7.5	3.0	2.5	1.0	.5	1.5	1.5	1.0	.5	3.0	2.5
13	7.5	7.5	3.0	2.0	1.0	.5	2.0	1.5	1.5	1.0	3.0	2.5
14	7.5	7.0	2.5	1.5	1.0	.5	2.0	1.5	1.0	.5	3.0	2.5
15	7.5	6.5	2.5	2.0	1.0	.5	1.5	1.0	1.5	1.0	3.0	2.0
16	7.5	7.0	2.5	2.5	1.0	.5	1.0	1.0	1.0	.5	3.0	2.5
17	8.0	7.5	2.5	2.0	1.5	1.0	1.0	1.0	1.0	.5	3.0	2.5
18	7.5	7.5	2.5	2.0	1.5	1.0	1.5	1.0	1.5	1.0	3.5	2.5
19	7.5	7.0	2.0	1.5	1.5	1.0	1.5	1.5	1.0	1.0	3.0	2.5
20	7.5	7.0	2.0	1.5	1.0	1.0	1.5	1.0	1.0	.5	3.5	2.5
21	7.5	6.5	2.0	1.5	1.5	1.0	1.5	1.0	2.0	1.0	3.5	2.5
22	6.5	6.0	2.0	1.5	1.5	1.0	2.0	1.5	2.0	1.5	3.5	2.5
23	6.0	6.0	2.0	1.0	2.0	1.5	1.5	1.0	2.0	1.5	4.0	2.5
24	6.0	6.0	2.0	2.0	2.0	1.5	1.5	1.0	2.0	1.5	4.0	3.0
25	6.0	5.5	2.5	2.0	2.0	1.5	1.5	1.5	2.0	1.5	3.5	3.0
26	6.5	6.0	2.5	2.0	2.0	2.0	1.5	1.0	1.5	1.0	4.0	3.5
27	6.5	6.0	2.5	2.0	2.0	1.5	1.0	1.0	1.0	.5	4.0	3.0
28	6.5	6.0	2.0	1.5	1.5	1.5	1.0	.5	1.0	.5	4.0	3.0
29	6.5	6.0	2.0	1.5	1.5	1.5	1.0	.5	---	---	4.0	3.0
30	6.0	5.5	2.5	2.0	2.0	1.5	1.0	1.0	---	---	4.5	3.0
31	5.5	5.5	---	---	2.0	1.5	1.5	1.0	---	---	3.5	2.5
MONTH	9.0	5.5	5.5	1.0	2.0	.5	2.5	.5	2.0	.5	4.5	.5

SPOKANE RIVER BASIN

12413360 EAST FORK PINE CREEK ABOVE GILBERT CREEK NEAR PINEHURST, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.0	2.5	4.5	4.0	9.5	7.0	12.0	10.0	12.0	10.5	12.0	11.0
2	3.5	3.0	5.0	4.0	8.5	7.5	12.5	10.0	12.5	10.5	12.0	11.0
3	3.5	3.0	5.5	4.0	7.5	7.0	12.5	10.0	12.5	11.0	12.0	11.0
4	3.5	2.5	6.0	4.5	7.0	6.5	13.0	10.5	12.0	11.0	12.0	11.0
5	4.0	2.5	5.5	4.5	7.5	6.5	12.5	11.0	13.0	11.0	11.5	11.0
6	4.0	3.0	5.5	4.0	8.0	7.0	11.5	10.5	13.0	11.0	11.5	10.5
7	3.5	3.0	6.0	4.0	8.0	6.5	13.0	10.0	13.5	11.5	11.5	10.5
8	3.5	3.0	6.0	4.5	8.5	7.0	13.0	10.5	13.0	11.5	11.0	10.0
9	3.5	3.0	6.0	5.0	9.0	7.5	13.5	11.0	13.5	11.5	11.0	10.0
10	4.5	3.0	6.5	4.5	8.5	7.5	13.5	11.0	13.5	11.5	11.0	10.0
11	4.0	3.0	6.5	4.5	8.5	7.5	13.0	11.5	13.5	11.5	11.0	10.5
12	4.0	3.0	6.5	5.0	7.5	7.0	13.0	11.5	13.0	11.5	11.5	10.5
13	4.0	3.0	7.0	5.5	7.5	7.0	13.0	11.5	13.0	12.5	11.5	10.5
14	4.0	3.0	5.5	5.0	8.5	7.0	13.5	11.0	13.5	12.0	11.5	10.5
15	5.0	3.0	6.0	5.0	8.5	7.0	13.0	11.5	13.5	12.0	11.5	10.5
16	5.0	3.0	5.0	4.5	9.5	7.0	12.0	11.0	13.5	12.0	11.5	10.5
17	5.0	3.5	5.5	4.0	9.0	7.0	12.0	10.5	13.5	12.0	11.0	10.5
18	4.0	4.0	6.0	5.0	9.5	7.5	12.0	10.5	13.5	12.0	11.0	10.5
19	5.0	3.5	6.0	5.0	10.0	7.5	12.0	10.5	13.0	11.5	11.0	10.5
20	4.5	3.5	6.5	5.0	10.5	7.5	12.5	10.5	13.0	11.5	10.5	10.0
21	5.0	3.5	6.5	4.5	11.0	8.0	11.5	11.0	12.5	11.5	10.5	10.0
22	5.0	4.0	8.0	5.5	11.5	8.5	11.5	11.0	12.5	11.5	10.5	10.0
23	5.0	4.0	8.5	6.5	11.0	9.0	12.5	10.5	12.5	11.5	10.5	10.0
24	5.5	4.0	9.0	7.0	10.0	9.0	12.5	11.0	12.5	11.5	11.0	10.0
25	6.0	4.0	9.0	7.5	11.0	9.0	13.0	11.0	12.5	11.0	10.5	10.0
26	6.0	4.0	9.0	7.5	10.5	9.0	12.5	11.0	12.5	11.0	10.5	10.0
27	6.0	4.5	9.5	7.5	10.5	9.5	13.0	11.0	12.5	11.0	11.0	10.0
28	4.5	4.0	9.0	8.0	10.5	9.5	11.5	11.0	12.0	11.0	10.5	10.0
29	4.5	4.0	8.0	7.0	12.0	9.0	11.5	10.5	12.5	11.0	10.0	9.5
30	4.5	4.0	7.5	6.5	12.0	9.5	11.5	10.5	12.5	11.0	10.0	9.0
31	---	---	9.0	6.5	---	---	11.5	10.5	12.5	11.5	---	---
MONTH	6.0	2.5	9.5	4.0	12.0	6.5	13.5	10.0	13.5	10.5	12.0	9.0

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 20001
DAILY MEAN VALUES

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

SPOKANE RIVER BASIN

12413360 EAST FORK PINE CREEK ABOVE GILBERT CREEK NEAR PINEHURST, ID--Continued

TURBIDITY IN NTU, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2	380.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	6.2	<2.0	<2.0
3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4	<2.0	<2.0	<2.0	7.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	5.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.6	<2.0	<2.0
8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.7	<2.0	<2.0	3.1	<2.0	<2.0
9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	10.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	7.7	<2.0	<2.0	3.6	<2.0	<2.0	<2.0	<2.0	<2.0
11	16.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
12	<2.0	<2.0	<2.0	5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
13	3.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
14	<2.0	<2.0	<2.0	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	<2.0	<2.0	<2.0	4.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	2.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.6	<2.0	<2.0	<2.0	<2.0	<2.0
18	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	6.2	<2.0	<2.0	<2.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
20	2.2	<2.0	<2.0	8.6	<2.0	<2.0	<2.0	<2.0	<2.0	4.0	<2.0	<2.0
21	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
22	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
23	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.5	<2.0	<2.0	<2.0	<2.0	<2.0
24	<2.0	<2.0	<2.0	4.3	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	<2.0
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	<2.0
26	18.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0
27	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	6.9	<2.0	<2.0
28	<2.0	<2.0	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
29	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
30	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	9.3	<2.0	<2.0	<2.0	<2.0	<2.0
31	2.7	<2.0	<2.0	---	---	---	2.9	<2.0	<2.0	<2.0	<2.0	<2.0
MAX	380.0	<2.0	<2.0	8.6	<2.0	<2.0	10.0	<2.0	<2.0	6.9	<2.0	<2.0
MIN	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		FEBRUARY			MARCH			APRIL			MAY	
1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	30.0	<2.0	<2.0	5.4	<2.0	<2.0
2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	4.7	<2.0	<2.0
3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	5.5	<2.0	<2.0
4	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0
6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	12.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	<2.0
8	2.4	<2.0	<2.0	12.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.9	<2.0	<2.0
9	<2.0	<2.0	<2.0	15.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
12	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.8	<2.0	<2.0
13	<2.0	<2.0	<2.0	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
14	<2.0	<2.0	<2.0	2.2	<2.0	<2.0	<2.0	<2.0	<2.0	38.0	<2.0	<2.0
15	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	25.0	<2.0	<2.0	9.3	<2.0	<2.0
16	<2.0	<2.0	<2.0	3.5	<2.0	<2.0	2.4	<2.0	<2.0	58.0	<2.0	<2.0
17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	6.5	<2.0	<2.0	180.0	<2.0	<2.0
18	<2.0	<2.0	<2.0	6.6	<2.0	<2.0	<2.0	<2.0	<2.0	4.8	<2.0	<2.0
19	<2.0	<2.0	<2.0	19.0	<2.0	3.0	3.1	<2.0	<2.0	7.6	<2.0	<2.0
20	<2.0	<2.0	<2.0	110.0	<2.0	<2.0	6.2	<2.0	<2.0	29.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	4.9	<2.0	<2.0	5.3	<2.0	<2.0	<2.0	<2.0	<2.0
22	5.9	<2.0	<2.0	16.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
23	<2.0	<2.0	<2.0	7.9	<2.0	<2.0	<2.0	<2.0	<2.0	3.3	<2.0	<2.0
24	6.7	<2.0	<2.0	2.8	<2.0	<2.0	2.0	<2.0	<2.0	3.2	<2.0	<2.0
25	<2.0	<2.0	<2.0	60.0	<2.0	<2.0	3.7	<2.0	<2.0	<2.0	<2.0	<2.0
26	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	44.0	<2.0	<2.0	6.5	<2.0	<2.0
27	<2.0	<2.0	<2.0	6.2	<2.0	<2.0	2.8	<2.0	<2.0	5.6	<2.0	<2.0
28	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	13.0	<2.0	<2.0	63.0	<2.0	<2.0
29	---	---	---	7.1	<2.0	<2.0	4.7	<2.0	<2.0	<2.0	<2.0	<2.0
30	---	---	---	3.8	<2.0	<2.0	7.7	<2.0	<2.0	<2.0	<2.0	<2.0
31	---	---	---	2.2	<2.0	<2.0	---	---	---	<2.0	<2.0	<2.0
MAX	6.7	<2.0	<2.0	110.0	<2.0	3.0	44.0	<2.0	<2.0	180.0	<2.0	<2.0
MIN	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

< Actual value is known to be less than the value shown

12413360 EAST FORK PINE CREEK ABOVE GILBERT CREEK NEAR PINEHURST, ID--Continued

TURBIDITY IN NTU, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
3	<2.0	<2.0	<2.0	18.0	<2.0	<2.0	<2.0	<2.0	<2.0	17.0	<2.0	<2.0
4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	2.9	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
12	2.1	<2.0	<2.0	8.3	<2.0	<2.0	30.0	<2.0	<2.0	5.5	<2.0	<2.0
13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.2	<2.0	<2.0
14	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	<2.0	<2.0	<2.0	2.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	14.0	<2.0	<2.0	<2.0	<2.0	<2.0
18	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	14.0	<2.0	<2.0	<2.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.3	<2.0	<2.0	<2.0	<2.0	<2.0
20	3.3	<2.0	<2.0	<2.0	<2.0	<2.0	10.0	<2.0	<2.0	<2.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.0	<2.0	<2.0	<2.0	<2.0	<2.0
22	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
23	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
24	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0
26	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.5	<2.0	<2.0	<2.0	<2.0	<2.0
27	3.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
28	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
29	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.4	<2.0	<2.0	<2.0	<2.0	<2.0
30	2.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
31	---	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	---
MAX	3.5	2.0	2.0	18.0	2.0	2.0	30.0	2.0	2.0	17.0	2.0	2.0
MIN	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

< Actual value is known to be less than the value shown

SPOKANE RIVER BASIN

12413370 EAST FORK PINE CREEK ABOVE NABOB CREEK NEAR PINEHURST, ID

LOCATION.--Lat 47°28'36", long 116°13'14", in NW¼NW¼SW¼ sec.28, T.48 N., R.2 E., Shoshone County, Hydrologic Unit 17010302, on right bank at upstream side of Bureau of Land Management road bridge, 80 ft upstream from Nabob Creek, 1.2 mi upstream from confluence with Pine Creek, and 4.3 mi south of Pinehurst.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 2,490 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 517 ft^3/s Apr. 14, 2000; minimum daily, 4.0 ft^3/s Sept. 22, 24, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 191 ft^3/s May 1; minimum daily, 4.0 ft^3/s Sept. 22, 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	6.5	6.4	5.8	5.8	8.4	28	191	27	11	7.1	4.8
2	8.3	6.4	6.1	5.6	6.1	8.3	27	140	25	11	6.8	4.8
3	7.2	6.2	6.1	5.7	6.0	7.9	26	105	24	10	6.6	4.7
4	6.9	8.8	5.9	6.7	6.7	7.7	23	87	27	10	6.5	4.7
5	6.7	9.5	5.8	7.0	8.3	8.3	22	81	23	10	6.5	4.8
6	6.6	7.4	5.7	7.8	8.0	11	22	74	22	11	6.2	4.9
7	6.5	6.7	5.7	7.0	7.1	15	22	66	20	10	6.1	4.8
8	6.5	6.9	5.8	7.2	6.8	18	22	66	19	9.6	6.0	4.7
9	6.4	6.8	5.8	7.0	7.1	21	20	74	20	9.4	5.9	4.6
10	6.4	6.3	5.7	6.5	6.9	20	20	76	19	9.1	5.8	4.5
11	6.4	5.9	5.3	6.2	6.5	17	20	73	18	9.1	5.7	4.4
12	6.3	5.9	4.4	6.3	6.2	15	19	77	20	8.9	5.7	4.3
13	6.5	5.9	5.9	6.2	5.9	18	19	94	20	8.8	5.6	4.3
14	6.5	5.8	5.9	6.1	6.0	22	17	99	18	8.6	5.6	4.1
15	6.5	5.9	5.5	5.6	6.0	19	17	120	18	8.5	5.5	4.1
16	6.4	5.9	6.2	5.7	5.9	17	18	123	16	11	5.4	4.2
17	6.3	5.7	7.0	5.2	5.7	16	22	103	16	9.4	5.3	4.5
18	6.4	5.7	5.9	5.9	6.4	16	32	84	15	8.6	5.2	4.5
19	6.5	5.7	5.9	5.9	6.3	57	36	72	14	8.4	5.2	4.2
20	6.9	5.6	5.2	5.5	6.3	49	36	63	14	8.3	5.2	4.1
21	11	5.7	6.0	6.0	7.0	36	34	56	14	8.4	5.2	4.1
22	7.7	5.7	5.9	6.4	7.9	31	33	52	13	8.4	5.2	4.0
23	6.8	5.6	5.9	5.9	9.1	30	35	53	13	8.3	5.4	4.1
24	6.6	5.9	6.1	6.2	9.4	32	40	59	13	7.9	5.6	4.0
25	6.4	5.8	5.9	6.3	9.0	41	65	58	13	7.6	5.3	4.1
26	6.4	6.0	5.8	5.9	8.2	45	100	50	13	7.4	5.1	4.7
27	6.4	6.8	5.9	5.9	7.6	36	126	44	14	7.3	5.0	4.7
28	6.9	6.2	5.8	5.4	7.9	31	159	41	15	7.5	5.0	5.8
29	7.7	6.4	5.6	6.1	---	28	125	35	12	7.8	5.1	5.1
30	6.9	6.8	5.6	6.2	---	26	130	31	12	7.4	5.0	4.8
31	6.5	---	5.7	6.0	---	24	---	28	---	7.4	4.8	---
TOTAL	218.5	190.4	180.4	191.2	196.1	731.6	1315	2375	527	276.1	174.6	135.4
MEAN	7.05	6.35	5.82	6.17	7.00	23.6	43.8	76.6	17.6	8.91	5.63	4.51
MAX	13	9.5	7.0	7.8	9.4	57	159	191	27	11	7.1	5.8
MIN	6.3	5.6	4.4	5.2	5.7	7.7	17	28	12	7.3	4.8	4.0
AC-FT	433	378	358	379	389	1450	2610	4710	1050	548	346	269

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	7.60	16.8	27.6	17.0	37.3	50.4	120	92.8	29.9	11.7	6.88	5.98
MAX	8.15	27.2	49.3	27.9	66.5	77.2	196	109	42.3	14.5	8.13	7.44
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	7.05	6.35	5.82	6.17	7.00	23.6	43.8	76.6	17.6	8.91	5.63	4.51
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL TOTAL	17227.6		6511.3			
ANNUAL MEAN	47.1		17.8		35.2	
HIGHEST ANNUAL MEAN					52.6	2000
LOWEST ANNUAL MEAN					17.8	2001
HIGHEST DAILY MEAN	517	Apr 14	191	May 1	517	Apr 14 2000
LOWEST DAILY MEAN	4.4	Dec 12	4.0	Sep 22	4.0	Sep 22 2001
ANNUAL SEVEN-DAY MINIMUM	5.5	Dec 6	4.1	Sep 19	4.1	Sep 19 2001
ANNUAL RUNOFF (AC-FT)	34170		12920		25520	
10 PERCENT EXCEEDS	117		42		94	
50 PERCENT EXCEEDS	19		6.9		13	
90 PERCENT EXCEEDS	5.9		5.2		5.7	

12413370 EAST FORK PINE CREEK ABOVE NABOB CREEK NEAR PINEHURST, ID--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1999 tocurrent year.
SPECIFIC CONDUCTANCE: October 1999 to current year.
TURBIDITY: October 1999 to current year.

INSTRUMENTATION.--Water-quality data recorder since October 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 20.0 °C Aug. 1, 2000, Aug. 15, 2001; minimum, 0.0 °C many days during winter months..
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 60 microsiemens/cm Sep. 25-26, 2001; minimum recorded daily mean, 18 microsiemens/cm April 14, 22-23.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 20.0 °C Aug. 15; minimum, 0.0 °C many days during winter months.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 60 microsiemens/cm Sep. 25-26; minimum recorded daily mean, 20 microsiemens/cm April 28.
TURBIDITY: Maximum recorded , 490 NTU November 26; minimum recorded, <2 NTU on many days during the year.

REMARKS.--Turbidity data collected prior to 2001 water year not published.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.0	10.0	7.0	6.0	2.5	2.0	2.0	1.0	1.5	.5	1.0	.5
2	11.0	9.0	7.0	5.5	2.5	2.0	2.0	1.0	1.5	1.0	2.5	1.0
3	10.5	9.0	6.5	5.0	3.0	2.5	1.5	1.0	2.0	1.0	2.0	.5
4	10.5	8.5	6.0	5.0	2.5	2.0	2.0	1.5	1.0	.5	2.5	.5
5	10.0	7.5	6.5	5.5	2.5	2.0	2.5	2.0	2.0	1.0	3.0	1.0
6	9.5	7.0	6.0	4.5	2.0	1.5	2.0	1.0	2.0	.5	3.0	1.0
7	9.5	7.0	5.5	4.5	2.0	2.0	1.0	.5	1.0	.0	3.0	.5
8	9.5	7.0	5.0	4.0	2.5	2.0	1.0	.5	.5	.0	3.5	1.0
9	10.0	7.5	5.5	3.5	2.0	1.5	1.5	1.0	.5	.0	3.0	2.0
10	10.0	8.5	4.0	3.0	2.0	1.0	2.0	1.0	1.0	.5	2.5	1.5
11	10.5	8.5	3.5	2.0	---	---	1.5	.5	1.5	.5	3.0	1.0
12	10.0	8.5	3.5	3.0	---	---	1.5	1.0	1.0	.5	3.5	2.0
13	9.0	8.5	3.5	2.0	1.0	1.0	2.0	1.0	2.0	.0	3.5	2.0
14	10.0	8.0	3.0	2.0	1.5	.5	1.5	1.0	.5	.0	3.5	1.5
15	9.5	8.0	3.0	2.0	1.0	.5	1.5	.5	1.5	.5	3.5	1.0
16	9.5	8.0	3.0	3.0	1.5	.5	1.0	.5	1.0	.5	3.5	2.0
17	10.0	8.5	3.0	2.0	1.5	1.0	1.0	.5	1.5	.0	3.0	2.0
18	9.5	8.5	3.0	2.0	1.5	.5	1.0	.5	2.0	.5	3.5	2.0
19	10.0	8.0	2.5	1.5	1.5	.5	1.5	1.0	1.5	.5	4.5	2.0
20	10.0	8.5	2.0	1.5	1.0	.5	1.0	.5	1.5	.0	4.5	1.5
21	9.0	7.5	2.5	1.5	1.0	.5	1.5	.5	2.0	.5	4.5	1.5
22	8.5	7.0	2.5	1.5	1.5	1.0	2.0	1.0	2.5	1.0	4.5	1.5
23	8.0	6.5	2.0	1.5	2.0	1.5	1.5	.5	2.0	1.5	5.0	1.5
24	8.0	6.5	3.0	2.0	1.5	1.0	1.0	.5	2.5	1.0	5.0	2.0
25	8.0	6.5	3.0	2.0	2.0	1.0	2.0	1.0	2.0	.5	4.0	3.0
26	8.0	6.5	3.0	2.5	2.0	1.5	1.5	.5	1.5	.5	4.5	3.0
27	8.0	7.0	3.0	2.0	2.0	1.0	1.0	.5	1.5	.0	4.5	2.0
28	8.0	6.5	2.0	1.5	2.0	1.0	1.0	.5	1.5	.0	4.5	3.0
29	8.0	7.0	2.5	1.5	1.5	1.0	1.0	.5	---	---	4.5	2.5
30	7.5	6.0	3.0	2.0	2.0	1.0	1.5	.5	---	---	6.0	2.5
31	6.5	6.0	---	---	2.0	1.5	1.5	.5	---	---	3.5	2.5
MONTH	12.0	6.0	7.0	1.5	---	---	2.5	.5	2.5	.0	6.0	.5

SPOKANE RIVER BASIN

12413370 EAST FORK PINE CREEK ABOVE NABOB CREEK NEAR PINEHURST, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.0	2.5	5.5	4.5	15.0	8.5	17.0	12.5	17.0	13.0	17.5	14.0
2	3.5	2.5	6.5	4.0	12.5	9.0	17.0	12.0	18.5	13.5	18.0	14.0
3	4.0	2.5	7.5	4.0	9.5	8.0	17.5	12.0	18.5	14.0	18.0	13.5
4	4.5	2.0	9.0	5.0	10.0	8.0	18.5	13.0	17.5	14.0	17.5	13.5
5	6.0	2.0	7.5	5.5	10.5	7.5	17.0	13.5	18.5	13.5	15.5	13.5
6	5.5	3.0	8.5	4.5	11.0	8.5	16.0	12.5	19.0	14.5	15.5	12.5
7	5.0	3.0	9.0	4.5	12.5	8.0	17.5	12.0	19.5	15.0	15.5	13.0
8	4.5	3.0	9.0	5.0	12.5	8.5	18.5	13.0	19.0	14.5	16.0	12.0
9	4.0	3.0	9.0	6.0	13.5	9.5	18.5	13.5	19.5	14.5	16.0	12.0
10	5.0	3.0	10.0	5.5	11.0	9.0	18.5	13.5	19.5	15.0	16.0	12.0
11	4.5	3.0	9.5	5.5	11.0	8.5	17.5	14.0	19.5	15.0	16.5	12.5
12	6.0	3.0	9.5	6.0	10.0	8.5	18.5	14.0	19.5	15.0	16.0	12.5
13	5.0	3.0	9.5	7.0	10.5	8.5	18.0	14.0	18.5	16.0	16.5	12.5
14	5.5	3.0	7.0	6.5	11.5	8.5	18.5	14.0	19.5	15.5	16.5	13.0
15	7.0	2.5	8.5	6.0	13.0	8.5	18.0	14.0	20.0	15.5	16.5	13.0
16	7.5	3.0	7.0	5.5	14.0	8.0	15.0	13.5	19.5	15.5	16.5	13.0
17	7.5	4.5	8.0	5.0	13.0	8.5	15.5	13.0	19.5	15.5	16.0	13.5
18	5.5	4.5	8.0	6.0	13.5	9.0	16.0	13.0	19.0	15.5	16.0	12.5
19	7.5	4.0	8.5	5.5	14.5	9.0	17.0	13.0	18.5	14.5	15.0	12.5
20	6.5	3.5	10.5	5.5	15.0	9.5	18.0	13.0	18.5	14.0	15.0	12.0
21	8.0	3.5	11.0	5.5	15.5	10.0	16.0	14.0	18.5	14.0	14.0	11.5
22	8.0	4.0	12.5	6.5	16.0	11.0	16.0	14.0	17.0	15.0	15.0	11.5
23	6.5	5.0	13.0	7.5	15.0	11.0	18.0	13.5	17.0	15.0	15.5	11.5
24	8.0	5.0	13.5	8.5	13.0	11.0	17.0	14.0	17.0	14.5	15.5	12.0
25	9.5	4.5	13.5	8.5	14.5	10.5	18.5	14.0	18.0	13.5	15.0	12.0
26	9.0	5.0	13.5	8.5	14.0	11.5	18.0	13.5	18.0	13.5	14.5	12.5
27	9.0	5.0	14.0	8.5	13.5	11.5	18.5	14.0	18.5	14.0	15.0	13.0
28	6.0	5.0	12.5	9.5	14.5	11.5	16.0	14.0	16.5	14.0	14.0	12.0
29	6.0	4.5	12.0	8.0	16.5	11.0	16.0	14.0	18.0	14.0	14.0	11.5
30	5.5	5.0	11.5	7.5	16.5	12.0	16.0	13.0	18.0	14.0	13.5	10.5
31	---	---	14.5	8.0	---	---	16.5	13.5	18.0	14.0	---	---
MONTH	9.5	2.0	14.5	4.0	16.5	7.5	18.5	12.0	20.0	13.0	18.0	10.5

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	54	40	51	57	57	44	23	31	42	50	58
2	56	53	49	49	56	57	45	29	30	42	50	58
3	57	55	47	47	56	57	45	32	30	42	51	58
4	58	53	49	38	57	57	46	30	30	43	51	58
5	58	51	47	50	57	57	46	28	31	44	52	58
6	57	49	47	47	57	57	46	27	32	43	52	58
7	55	48	46	39	57	58	46	27	33	42	53	58
8	56	52	48	47	57	58	47	26	33	42	53	58
9	56	49	50	49	59	57	46	25	34	45	54	58
10	57	52	48	50	59	56	44	24	34	44	54	58
11	57	56	---	53	58	56	44	24	34	44	54	58
12	55	55	---	52	58	56	45	23	34	43	55	58
13	54	54	52	52	57	55	45	22	35	45	55	59
14	55	53	48	51	---	54	46	22	35	45	55	59
15	55	54	54	---	57	55	46	22	36	46	55	59
16	53	53	51	---	57	55	46	21	36	44	56	59
17	54	53	52	52	56	56	45	21	36	44	56	59
18	56	51	52	50	56	56	41	23	36	45	56	59
19	52	52	48	51	55	49	39	24	36	46	57	59
20	53	51	51	47	56	57	38	25	38	48	57	59
21	51	52	48	46	56	56	38	26	37	48	57	59
22	50	54	50	56	56	52	37	26	38	48	57	59
23	48	54	47	57	56	50	36	27	38	48	57	59
24	51	54	52	58	56	48	34	26	39	49	56	59
25	52	53	51	57	56	44	30	26	38	49	56	60
26	53	54	48	57	57	42	26	27	38	50	56	60
27	54	54	51	58	57	42	22	28	39	50	57	59
28	51	52	49	---	57	43	20	28	39	50	57	59
29	49	47	50	---	---	44	21	29	41	49	57	58
30	49	44	49	57	---	44	22	30	41	49	57	58
31	49	---	48	57	---	45	---	31	---	50	58	---
MEAN	54	52	---	---	---	53	39	26	35	46	55	59

12413370 EAST FORK PINE CREEK ABOVE NABOB CREEK NEAR PINEHURST, ID--Continued

TURBIDITY IN NTU, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4	<2.0	<2.0	<2.0	2.0	<2.0	<2.0	3.8	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	---	<2.0	<2.0	<2.0
12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	---	<2.0	<2.0	<2.0
13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
14	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	<2.0	<2.0	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
17	<2.0	<2.0	<2.0	8.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
18	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.6	<2.0	<2.0	<2.0	<2.0	<2.0
22	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
23	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
24	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
26	<2.0	<2.0	<2.0	490.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0
27	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
28	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	---
29	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	---
30	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
31	<2.0	<2.0	<2.0	---	---	---	4.3	<2.0	<2.0	<2.0	<2.0	<2.0
MAX	2.0	<2.0	2.0	490.0	<2.0	<2.0	---	---	---	---	---	---
MIN	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	---	---	---	---	---	---

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		FEBRUARY			MARCH			APRIL			MAY	
1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	14.0	3.4	8.1
2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.4	<2.0	<2.0
3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.9	<2.0	<2.0
4	12.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.3	<2.0	<2.0	5.8	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.2	<2.0	<2.0
6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	4.8	<2.0	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	<2.0	5.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9	<2.0	<2.0	<2.0	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	30.0	<2.0	<2.0
12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
13	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	<2.0	<2.0	<2.0	4.1	<2.0	<2.0
14	---	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.5	<2.0	<2.0
16	<2.0	<2.0	<2.0	3.5	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0
17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0
18	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	160.0	<2.0	6.9	<2.0	<2.0	<2.0	2.1	<2.0	<2.0
20	<2.0	<2.0	<2.0	31.0	<2.0	<2.0	<2.0	<2.0	<2.0	45.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
22	<2.0	<2.0	<2.0	5.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
23	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
24	<2.0	<2.0	<2.0	5.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
25	<2.0	<2.0	<2.0	18.0	<2.0	<2.0	14.0	<2.0	<2.0	<2.0	<2.0	<2.0
26	<2.0	<2.0	<2.0	4.1	<2.0	<2.0	58.0	5.3	11.0	<2.0	<2.0	<2.0
27	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	24.0	5.2	12.0	<2.0	<2.0	<2.0
28	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	30.0	7.7	17.0	<2.0	<2.0	<2.0
29	---	---	---	3.4	<2.0	<2.0	71.0	<2.0	2.3	<2.0	<2.0	<2.0
30	---	---	---	<2.0	<2.0	<2.0	34.0	<2.0	<2.0	<2.0	<2.0	<2.0
31	---	---	---	3.3	<2.0	<2.0	---	---	---	<2.0	<2.0	<2.0
MAX	---	---	---	160.0	<2.0	6.9	71.0	7.7	17.0	45.0	3.4	8.1
MIN	---	---	---	<2.0	<2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

< Actual value is known to be less than the value shown

SPOKANE RIVER BASIN

12413370 EAST FORK PINE CREEK ABOVE NABOB CREEK NEAR PINEHURST, ID--Continued

TURBIDITY IN NTU, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4	<2.0	<2.0	<2.0	4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	2.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
14	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
18	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
22	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
23	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
24	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
26	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
27	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
28	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
29	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
30	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
31	---	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	---
MAX	2.6	<2.0	<2.0	4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MIN	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

< Actual value is known to be less than the value shown

SPOKANE RIVER BASIN

12413445 PINE CREEK BELOW AMY GULCH NEAR PINEHURST, ID

LOCATION.--Lat 47°30'57", long 116°14'24", in SW¼SW¼SW¼ sec.8, T.48 N., R.2 E., Shoshone County, Kellog West quad., Hydrologic Unit 17010302, on left bank, 3.2 mi upstream from South Fork Coeur d'Alene River and 1.0 mi south of Pinehurst city limits.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,285 ft above sea level, from topographic map.

REMARKS.--Records fair. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,360 ft^3/s Apr. 14, 2000, gage height, 8.88 ft; minimum daily, 9.1 ft^3/s Sept. 24, 26, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 649 ft^3/s May 1, gage height, 7.33 ft; minimum daily, 9.1 ft^3/s Sept. 24, 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	17	14	13	15	21	93	591	83	35	19	11
2	20	17	14	13	15	22	93	445	80	33	18	11
3	19	17	14	13	15	22	87	324	76	32	18	11
4	18	17	14	13	15	21	79	269	80	30	18	11
5	19	19	14	14	16	22	74	257	73	30	17	11
6	20	19	14	15	17	25	73	240	70	30	17	11
7	21	19	14	16	18	31	72	221	66	29	17	11
8	20	18	14	16	17	38	72	221	62	27	16	11
9	20	e18	14	16	17	44	69	255	61	26	16	11
10	19	e17	14	16	17	45	67	263	59	26	16	11
11	19	e17	14	16	18	42	65	252	57	25	15	10
12	18	e16	13	16	18	42	62	268	58	25	15	10
13	17	e16	13	16	17	49	61	332	58	25	15	10
14	17	e16	13	16	17	58	58	356	56	24	15	9.9
15	17	16	13	16	16	55	56	484	54	23	14	9.7
16	16	16	13	15	16	54	55	484	51	25	14	9.6
17	16	16	13	15	16	53	58	376	49	24	13	9.5
18	16	15	14	15	15	52	72	299	47	23	13	9.5
19	16	15	14	14	15	150	102	253	45	22	13	9.5
20	16	14	13	14	15	189	109	223	44	22	13	9.5
21	17	14	13	14	16	131	103	200	42	22	13	9.4
22	19	14	13	14	16	106	102	188	41	22	13	9.3
23	18	14	13	15	18	96	107	198	40	22	12	9.2
24	17	14	13	15	21	100	130	219	39	21	12	9.1
25	17	14	14	15	22	130	204	218	38	20	12	9.2
26	17	14	14	15	21	165	317	192	37	20	12	9.1
27	18	14	13	15	20	138	427	166	39	20	12	9.3
28	18	14	13	15	20	117	568	149	40	19	12	9.5
29	18	14	13	14	---	100	454	122	36	20	12	9.8
30	18	14	13	15	---	92	407	102	35	19	12	10
31	18	---	13	15	---	85	---	89	---	19	12	---
TOTAL	558	475	418	460	479	2295	4296	8256	1616	760	446	301.1
MEAN	18.0	15.8	13.5	14.8	17.1	74.0	143	266	53.9	24.5	14.4	10.0
MAX	21	19	14	16	22	189	568	591	83	35	19	11
MIN	16	14	13	13	15	21	55	89	35	19	12	9.1
AC-FT	1110	942	829	912	950	4550	8520	16380	3210	1510	885	597

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	17.0	64.2	104	106	134	215	337	362	171	43.2	20.7	15.0
MAX	19.3	116	170	213	187	325	573	535	375	75.7	29.9	18.0
(WY)	2000	2000	2000	1999	2000	1999	2000	1999	1999	1999	1999	1999
MIN	13.6	15.8	13.5	14.8	17.1	74.0	143	266	53.9	24.5	14.4	10.0
(WY)	1999	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	52003		20360.1			
ANNUAL MEAN	142		55.8		139	
HIGHEST ANNUAL MEAN					196	1999
LOWEST ANNUAL MEAN					55.8	2001
HIGHEST DAILY MEAN	1990	Apr 14	591	May 1	1990	Apr 14 2000
LOWEST DAILY MEAN	13	Dec 12	9.1	Sep 24	9.1	Sep 24 2001
ANNUAL SEVEN-DAY MINIMUM	13	Dec 11	9.2	Sep 21	9.2	Sep 21 2001
ANNUAL RUNOFF (AC-FT)	103100		40380		100400	
10 PERCENT EXCEEDS	357		149		341	
50 PERCENT EXCEEDS	57		18		63	
90 PERCENT EXCEEDS	14		12		14	

e Estimated

SPOKANE RIVER BASIN

12413445 PINE CREEK BELOW AMY GULCH NEAR PINEHURST, ID--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: February 1999 to current year.
SPECIFIC CONDUCTANCE: February 1999 to current year.
TURBIDITY: February 1999 to current year.

INSTRUMENTATION.--Water-quality data recorder since February 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 16.0 °C Aug. 7, 2001; minimum recorded, 1.5 °C on Feb, 19, 2000.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 42 microsiemens/cm Oct. 29, 2000; minimum recorded daily mean, 15 microsiemens/cm May 24, 30, June 16-17, 1999.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 16.0 °C Aug. 7; minimum recorded, 3.0 °C on March 19-21.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 47 microsiemens/cm March 8-10; minimum recorded daily mean, 18 microsiemens/cm May 16.
TURBIDITY: Maximum recorded 150 NTU April 29; minimum recorded <2 NTU on many days during the year.

REMARKS.--Turbidity data collected prior to 2001 water year not published.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT													
16...	1145	16	35	6.6	5.0	11.2	12.9	3.35	1.10	.36	.35	<10	<10
NOV													
29...	1445	14	37	7.0	1.0	7.2	15.6	4.10	1.30	.45	.39	<10	<10
JAN													
08...	1450	16	38	7.3	2.0	6.0	15.5	4.07	1.29	.43	.37	<10	<10
FEB													
26...	1345	22	41	7.2	3.5	6.1	15.3	4.01	1.29	.43	.39	<10	<10
APR													
10...	1630	67	32	7.1	5.5	5.0	12.1	3.10	1.04	.44	.44	M	<10
27...	1240	401	22	7.2	20.0	7.7	7.77	2.06	.637	.26	.27	130	<10
JUN													
26...	1635	39	30	7.2	25.0	12.0	11.1	2.84	.963	.38	.36	<10	<10
AUG													
08...	0855	17	34	6.8	16.0	11.0	13.0	3.38	1.12	.40	.38	M	<10
SEP													
19...	1440	8.5	40	6.5	20.0	13.3	15.0	3.87	1.29	.35	.34	<10	<10

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT						
16...	.20	<1	<1	.3	111	102
NOV						
29...	.40	<1	<1	.2	125	110
JAN						
08...	.26	<1	<1	.2	117	117
FEB						
26...	.25	<1	<1	.2	125	123
APR						
10...	.23	<1	<1	.2	126	129
27...	.76	8	7	.8	63	72
JUN						
26...	.09	<1	<1	.2	94	98
AUG						
08...	.47	<1	<1	.2	105	104
SEP						
19...	.29	<1	<1	.2	105	101

E Estimated value

SPOKANE RIVER BASIN

12413445 PINE CREEK BELOW AMY GULCH NEAR PINEHURST, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.5	10.5	10.0	8.5	8.0	7.0	7.0	6.0	6.0	5.0	5.5	3.5
2	11.5	10.5	10.5	8.5	7.5	7.0	6.5	5.5	6.0	5.0	6.0	4.0
3	12.0	10.0	10.0	8.5	8.0	7.0	6.5	6.0	6.0	4.5	6.5	4.0
4	12.5	10.0	9.0	8.5	7.5	6.5	6.5	6.0	5.0	4.5	7.0	3.5
5	12.5	9.5	9.5	8.5	7.5	6.5	7.0	6.0	5.5	5.0	6.5	4.0
6	12.5	9.5	10.0	8.0	7.5	6.5	7.0	5.5	6.0	4.5	7.0	4.0
7	12.5	9.5	9.5	8.0	7.0	7.0	6.5	5.0	6.0	4.0	7.0	3.5
8	12.5	10.0	8.5	8.0	7.5	7.0	6.0	5.0	5.0	3.5	6.0	3.5
9	12.0	10.0	9.0	7.5	7.0	6.5	6.5	5.5	5.0	3.5	5.5	4.0
10	11.5	10.5	---	---	7.0	6.0	6.5	5.5	5.5	4.0	5.0	3.5
11	12.5	10.0	---	---	7.5	5.5	6.5	5.0	6.0	4.0	5.5	3.5
12	11.5	10.5	---	---	6.5	5.0	6.0	5.0	5.5	4.0	6.0	4.5
13	11.0	10.5	---	---	6.5	5.5	6.0	5.5	6.5	4.0	6.0	4.5
14	11.5	10.0	---	---	6.5	5.0	6.0	5.0	5.0	4.0	6.0	4.0
15	12.0	10.0	8.0	7.0	6.5	5.0	6.0	4.5	5.5	4.0	6.5	3.5
16	11.5	10.0	8.0	7.5	6.5	5.0	6.0	4.5	4.5	4.0	5.5	4.5
17	12.5	10.0	8.0	7.0	7.0	5.5	6.0	4.5	6.5	4.0	5.5	4.5
18	11.0	10.0	8.0	7.0	6.5	5.5	5.5	4.5	6.0	4.5	6.0	4.5
19	12.0	10.0	8.5	7.0	6.5	5.5	5.5	5.0	7.0	4.5	6.0	3.0
20	11.5	10.0	8.5	6.5	6.0	5.0	6.5	5.0	6.5	4.0	6.5	3.0
21	11.5	9.5	8.5	7.0	6.5	5.5	6.0	5.0	6.0	4.5	6.5	3.0
22	11.0	9.0	8.0	7.0	6.5	6.0	6.5	5.5	6.5	5.0	7.0	3.5
23	11.5	9.0	8.0	6.5	7.0	6.5	6.5	4.5	5.5	5.0	7.5	3.5
24	11.0	9.0	8.0	7.5	6.5	6.0	6.0	4.5	5.5	4.5	7.0	3.5
25	11.0	9.0	8.0	7.5	7.0	6.0	6.0	5.0	5.5	4.0	5.0	4.0
26	11.5	9.0	8.0	7.5	7.0	6.0	6.5	4.5	6.0	3.5	5.5	4.0
27	10.5	9.5	8.0	7.0	7.0	6.0	6.0	4.5	6.5	3.5	6.0	3.5
28	10.5	9.0	8.0	6.5	6.5	6.0	6.0	4.0	6.5	3.5	5.0	4.0
29	10.5	9.5	7.5	6.5	6.5	6.0	5.5	4.0	---	---	6.0	4.0
30	10.0	9.0	8.0	7.0	6.5	6.0	5.5	4.5	---	---	7.0	4.0
31	9.5	9.0	---	---	6.5	6.0	5.5	4.5	---	---	4.5	4.0
MONTH	13.5	9.0	---	---	8.0	5.0	7.0	4.0	7.0	3.5	7.5	3.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.0	4.0	5.5	4.5	13.0	7.5	14.5	9.5	14.0	10.0	13.5	11.0
2	5.0	4.0	7.0	4.5	9.5	7.5	14.5	9.0	15.0	10.5	15.0	10.5
3	5.5	4.0	8.0	4.0	8.5	7.0	14.5	9.0	15.0	10.5	15.0	10.5
4	6.5	3.5	9.0	5.0	8.5	7.0	14.5	9.5	14.5	10.5	15.0	10.5
5	7.0	3.5	7.5	5.0	10.0	7.0	14.0	10.0	15.5	10.5	13.5	10.5
6	6.0	4.5	8.5	4.5	10.0	7.5	13.5	9.0	15.5	11.0	13.5	10.0
7	5.5	4.0	9.0	4.5	10.5	7.0	14.5	9.5	16.0	11.0	14.0	10.5
8	5.0	4.0	9.0	5.0	10.5	7.5	15.0	9.5	15.5	11.0	14.5	10.0
9	5.0	4.0	9.0	5.5	10.5	8.0	15.0	9.5	15.5	11.0	14.5	10.0
10	5.5	4.0	9.5	5.5	9.0	7.5	15.0	10.0	15.5	11.0	14.5	10.0
11	5.5	4.0	9.5	5.0	10.0	7.0	14.0	10.0	15.5	11.0	15.0	10.5
12	6.0	4.0	9.0	6.0	9.0	7.5	14.5	10.0	15.5	11.0	14.5	10.5
13	6.0	4.0	9.0	6.5	9.5	7.5	14.0	10.5	14.0	11.5	15.0	10.5
14	6.5	4.0	6.5	6.0	10.0	7.5	15.0	10.0	15.5	11.0	15.0	10.5
15	8.0	4.0	8.0	6.0	11.0	8.0	13.5	10.0	15.5	11.0	15.0	10.5
16	8.5	4.0	7.5	5.5	12.5	7.5	12.0	10.0	15.5	11.0	15.0	10.5
17	7.5	4.5	8.0	5.0	11.5	7.5	12.0	10.0	15.5	11.0	14.0	11.0
18	5.5	4.5	7.5	6.0	12.5	7.5	13.0	10.0	15.5	11.0	14.5	10.5
19	7.5	4.5	8.5	5.5	13.0	7.5	14.0	10.0	15.0	10.5	13.5	10.5
20	6.5	4.0	10.0	5.5	13.5	8.0	15.0	10.0	15.5	10.5	14.0	10.0
21	8.5	4.0	10.5	5.5	14.0	8.0	13.5	10.5	15.5	10.5	12.5	10.0
22	7.0	4.0	11.5	6.0	14.0	8.5	13.5	10.5	13.5	11.0	14.0	10.0
23	6.0	5.0	12.0	6.5	13.0	9.0	15.0	10.5	14.0	11.0	14.5	10.0
24	8.0	5.0	12.5	7.5	11.0	9.0	14.0	10.5	14.0	11.0	14.5	10.5
25	9.0	4.5	12.0	7.5	13.0	9.0	15.0	10.5	15.0	10.5	13.5	10.5
26	8.5	5.0	12.0	7.5	12.5	9.0	15.0	10.5	15.5	10.5	12.5	11.0
27	8.5	5.0	12.0	7.5	11.0	9.5	15.0	10.5	15.5	10.5	13.5	11.0
28	6.0	5.0	11.0	8.0	11.5	9.5	12.5	10.5	13.5	11.0	12.5	10.5
29	6.0	4.5	10.0	7.0	14.0	9.0	12.5	10.5	15.5	10.5	13.5	10.0
30	5.5	4.5	10.0	6.5	13.5	9.0	13.0	10.0	15.5	11.0	13.5	10.0
31	---	---	12.5	7.0	---	---	12.5	10.5	15.5	11.0	---	---
MONTH	9.0	3.5	12.5	4.0	14.0	7.0	15.0	9.0	16.0	10.0	15.0	10.0

12413445 PINE CREEK BELOW AMY GULCH NEAR PINEHURST, ID--Continued

SPECIFIC CONDUCTANCE, MICROMHOS/CM AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	37	38	39	42	44	33	21	25	31	35	38
2	36	37	38	39	42	44	33	22	25	31	35	38
3	36	37	38	39	42	44	33	23	25	31	35	38
4	36	37	38	39	41	44	34	24	26	32	35	38
5	37	37	38	39	42	44	34	24	26	32	35	38
6	37	37	38	39	42	44	34	24	26	32	35	38
7	37	38	38	39	43	45	34	24	26	32	35	39
8	37	38	38	40	43	47	34	23	27	32	35	39
9	36	38	38	40	43	47	34	22	27	32	35	39
10	36	---	38	40	43	47	34	22	27	32	35	39
11	36	---	38	40	43	46	34	22	27	33	35	39
12	36	---	38	40	43	46	34	21	28	33	36	39
13	36	---	38	40	43	45	34	20	28	33	36	39
14	35	---	38	40	43	46	34	20	28	33	36	39
15	35	37	38	40	42	45	34	19	28	33	36	39
16	35	37	38	40	42	45	35	18	29	33	36	39
17	36	37	38	39	42	44	35	19	29	34	36	39
18	36	37	38	39	42	44	35	20	29	34	36	39
19	36	37	38	39	42	41	32	21	29	33	36	40
20	36	37	38	39	42	37	32	21	29	34	36	40
21	36	37	38	39	42	38	31	22	29	34	37	40
22	36	37	38	40	43	39	31	22	30	34	37	40
23	36	37	38	41	43	38	30	22	30	34	37	40
24	37	37	38	41	44	37	29	21	30	34	37	40
25	37	37	39	41	45	35	27	21	30	34	37	40
26	37	37	39	41	45	32	24	22	30	34	37	40
27	37	37	39	41	45	33	21	22	31	34	37	40
28	37	37	39	41	44	33	19	23	31	34	38	41
29	37	38	39	41	---	33	20	23	31	34	38	41
30	37	38	39	41	---	34	21	24	31	34	39	41
31	37	---	39	41	---	34	---	24	---	34	38	---
MEAN	36	---	38	40	43	41	31	22	28	33	36	39
MAX	37	---	39	41	45	47	35	24	31	34	39	41
MIN	35	---	38	39	41	32	19	18	25	31	35	38

TURBIDITY IN NTU, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	---	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	---	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
12	<2.0	<2.0	<2.0	---	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
13	<2.0	<2.0	<2.0	---	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
14	<2.0	<2.0	<2.0	---	---	---	<2.0	<2.0	<2.0	4.7	<2.0	<2.0
15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
18	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	47.0	<2.0	<2.0	<2.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
22	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
23	<2.0	<2.0	<2.0	4.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
24	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.7	<2.0	<2.0
26	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
27	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
28	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
29	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
30	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
31	<2.0	<2.0	<2.0	---	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MAX	2.7	<2.0	<2.0	---	---	---	47.0	<2.0	<2.0	4.7	<2.0	<2.0
MIN	<2.0	<2.0	<2.0	---	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

< Actual value is known to be less than the value shown

12413445 PINE CREEK BELOW AMY GULCH NEAR PINEHURST, ID--Continued

TURBIDITY IN NTU, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		FEBRUARY			MARCH			APRIL			MAY	
1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	11.0	3.2	7.1
2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.7	<2.0	<2.0
3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.4	<2.0	<2.0
4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.1	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.0	<2.0	<2.0
6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	<2.0	<2.0	<2.0	4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	6.6	<2.0	<2.0
12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
13	<2.0	<2.0	<2.0	4.3	<2.0	<2.0	<2.0	<2.0	<2.0	2.3	<2.0	<2.0
14	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.4	<2.0	<2.0
16	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	6.8	<2.0	<2.0	3.9	<2.0	<2.0
17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	<2.0
18	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	40.0	<2.0	11.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0
20	<2.0	<2.0	<2.0	5.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	5.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
22	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
23	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
24	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.3	<2.0	<2.0	<2.0	<2.0	<2.0
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	9.4	<2.0	<2.0	<2.0	<2.0	<2.0
26	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	19.0	5.1	12.0	<2.0	<2.0	<2.0
27	<2.0	<2.0	<2.0	2.9	<2.0	<2.0	20.0	5.7	9.8	<2.0	<2.0	<2.0
28	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	36.0	9.0	20.0	2.2	<2.0	<2.0
29	---	---	---	<2.0	<2.0	<2.0	150.0	<2.0	2.1	<2.0	<2.0	<2.0
30	---	---	---	<2.0	<2.0	<2.0	10.0	<2.0	<2.0	<2.0	<2.0	<2.0
31	---	---	---	<2.0	<2.0	<2.0	---	---	---	<2.0	<2.0	<2.0
MAX	<2.0	<2.0	<2.0	40.0	<2.0	11.0	150.0	9.0	20.0	11.0	3.2	7.1
MIN	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	<2.0	<2.0	<2.0	4.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
3	3.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0
4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8	<2.0	<2.0	<2.0	3.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
10	39.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11	<2.0	<2.0	<2.0	3.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
12	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
14	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
15	20.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
16	3.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
18	<2.0	<2.0	<2.0	110.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
19	<2.0	<2.0	<2.0	2.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
21	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
22	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
23	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
24	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
26	32.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
27	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
28	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.9	<2.0	<2.0
29	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
30	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
31	---	---	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	---
MAX	39.0	<2.0	<2.0	110.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0
MIN	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

< Actual value is known to be less than the value shown

SPOKANE RIVER BASIN

12413470 SOUTH FORK COEUR D'ALENE RIVER NEAR PINEHURST, ID

LOCATION.--Lat 47°33'06", long 116°14'13", in SW¼SE¼NW¼ sec.32, T.49 N., R.2 E., Shoshone County, Hydrologic Unit 17010302, on right bank, 130 ft upstream from abandoned Union Pacific Railroad bridge, 0.75 mi downstream from Pine Creek, 1.0 mi north of Pinehurst, 1.0 mi upstream from Bear Creek, 1.0 mi southeast of Enaville and at mile 1.4.

DRAINAGE AREA.--299 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 2,190 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, 11,700 ft^3/s Feb. 9, 1996, gage height, 17.43 ft, from rating curve extended above 6,000 ft^3/s on basis of contracted opening and flow-over-road measurement of peak flow; minimum, 45 ft^3/s Jan. 4, 1988, gage height, 7.19 ft and Oct. 27, 1998, gage height, 6.80 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above a 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)
Apr. 28	1615	*1,650	*9.71	No peaks greater than base discharge.			

Minimum, 48 ft^3/s Dec. 12, gage height, 7.03 ft, result of freeze-out upstream; minimum daily, 65 ft^3/s Dec. 12, Sept. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	190	104	95	86	89	109	314	1460	e485	212	125	79
2	140	102	92	86	93	115	314	1170	e480	202	118	82
3	123	102	90	87	92	112	307	922	e460	193	117	81
4	117	113	90	95	98	110	283	806	e500	185	117	79
5	115	134	90	99	106	114	268	788	e460	181	115	79
6	e110	120	86	104	105	125	264	755	442	187	111	83
7	e110	113	86	98	94	143	266	699	418	181	109	82
8	e110	115	86	91	84	177	280	703	401	171	106	81
9	e110	114	87	96	90	218	264	e750	404	162	103	81
10	e100	106	87	94	96	223	259	838	387	157	101	80
11	100	100	88	93	94	207	255	826	368	152	100	76
12	99	105	65	95	90	193	246	890	384	153	98	75
13	103	105	75	95	90	206	246	1150	377	156	96	71
14	103	103	86	95	85	247	232	1300	359	147	93	68
15	100	102	85	92	92	233	222	1530	362	143	92	67
16	101	102	74	82	84	226	220	1520	337	164	93	70
17	97	98	104	87	88	218	237	1220	329	161	90	75
18	96	94	92	86	94	208	286	995	316	152	85	71
19	98	95	91	92	92	390	349	852	302	143	86	71
20	101	92	84	90	93	483	365	766	284	142	89	72
21	143	93	83	88	99	381	352	704	270	151	87	70
22	122	93	90	95	106	331	348	687	263	144	87	70
23	114	87	93	92	117	313	358	758	256	138	88	72
24	108	93	95	88	120	320	396	899	252	132	91	68
25	100	89	92	93	119	379	531	976	251	131	89	65
26	94	94	92	89	112	440	812	907	239	128	84	73
27	99	97	90	78	104	396	1090	811	248	125	84	74
28	102	93	88	74	103	361	1540	767	268	126	82	87
29	109	95	86	80	---	326	1310	670	233	133	84	81
30	103	98	84	92	---	305	1120	582	218	131	82	78
31	102	---	84	94	---	291	---	519	---	130	84	---
TOTAL	3419	3051	2710	2806	2729	7900	13334	28220	10353	4813	2986	2261
MEAN	110	102	87.4	90.5	97.5	255	444	910	345	155	96.3	75.4
MAX	190	134	104	104	120	483	1540	1530	500	212	125	87
MIN	94	87	65	74	84	109	220	519	218	125	82	65
AC-FT	6780	6050	5380	5570	5410	15670	26450	55970	20540	9550	5920	4480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

MEAN	125	297	390	406	607	696	1213	1319	743	269	146	112
MAX	252	977	1544	963	2104	1137	1878	2839	1641	503	199	150
(WY)	1996	1996	1996	1997	1996	1997	2000	1997	1999	1999	1999	1997
MIN	78.8	83.1	87.4	90.5	97.5	255	444	651	256	131	82.8	75.4
(WY)	1988	1988	2001	2001	2001	2001	2001	1992	1992	1994	1994	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1987 - 2001	
ANNUAL TOTAL	194791		84582			
ANNUAL MEAN	532		232		526	
HIGHEST ANNUAL MEAN					846	1997
LOWEST ANNUAL MEAN					232	2001
HIGHEST DAILY MEAN	4630	Apr 14	1540	Apr 28	9000	Feb 9 1996
LOWEST DAILY MEAN	65	Dec 12	65	Dec 12	58	Nov 25 1993
ANNUAL SEVEN-DAY MINIMUM	80	Dec 10	70	Sep 19	67	Oct 4 1994
ANNUAL RUNOFF (AC-FT)	386400		167800		381000	
10 PERCENT EXCEEDS	1360		524		1280	
50 PERCENT EXCEEDS	248		109		266	
90 PERCENT EXCEEDS	94		82		97	

e Estimated

12413470 SOUTH FORK COEUR D'ALENE RIVER NEAR PINEHURST, ID--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to September 1998, March 1999 to current year.
SPECIFIC CONDUCTANCE: March 1999 to current year.
TURBIDITY: March 1999 to current year.

INSTRUMENTATION.--Water quality data logger, temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 23.7 °C July 27, 1998; minimum, 0.7 °C Jan. 7, 2000.
SPECIFIC CONDUCTANCE: Maximum daily mean, 358 microsiemens/cm Aug. 25, 2000; minimum daily mean, 47 microsiemens/cm May 25, 1999.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 22.5 °C Aug. 7, 9; minimum, 0.7 °C Dec. 15, Feb. 8.
SPECIFIC CONDUCTANCE: Maximum daily mean, 353 microsiemens/cm Dec. 12, 16; minimum daily mean, 60 microsiemens/cm April 28.
TURBIDITY: Maximum recorded >1,000 NTU May 10-11, July 21-23, Aug. 17; minimum recorded, <2 NTU on many days during the year.

REMARKS.--Missing data due to equipment malfunction. Turbidity data collected prior to 2001 water year not published.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)	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													
18...	1035	95	315	7.0	9.0	9.8	--	--	--	--	126	32.0	11.1
NOV													
06...	1330	120	288	7.1	7.0	7.5	--	12.6	114	--	115	29.4	10.2
30...	0750	99	299	7.2	0	4.1	--	--	--	--	122	31.2	10.6
DEC													
18...	1200	94	320	6.6	-4.5	1.4	--	13.3	100	--	129	32.1	11.8
JAN													
10...	1145	94	327	7.2	2.0	4.0	--	--	--	--	136	34.3	12.3
23...	1430	86	328	6.8	5.0	2.9	--	13.4	107	--	130	32.1	12.0
FEB													
27...	1630	94	289	7.3	1.5	5.7	--	--	--	--	114	29.4	9.93
MAR													
14...	1145	247	195	7.3	8.0	5.0	--	12.2	103	--	72.6	19.3	5.92
APR													
10...	1100	260	193	7.4	7.0	5.4	1.1	12.1	105	<1	77.8	20.5	6.46
MAY													
01...	1400	1470	77	7.3	6.0	5.9	11	8.8	76.6	S5	29.0	7.68	2.39
03...	1300	909	97	7.2	13.0	7.6	--	11.0	98.8	--	36.2	9.56	3.00
JUN													
12...	1230	385	142	7.4	9.0	9.0	--	11.0	103	--	55.6	14.8	4.53
25...	1545	251	176	7.4	24.0	17.3	4.5	5.1	57.5	56	70.7	18.6	5.85
JUL													
24...	1040	133	190	7.5	24.0	15.3	1.7	6.1	66.0	S11	--	--	--
AUG													
06...	1505	108	200	7.5	32.5	21.4	2.5	7.7	94.1	S7	78.1	20.4	6.61
SEP													
10...	1115	81	332	7.2	20.0	13.1	2.2	8.4	88.3	S4	135	34.4	11.9
10...	1130	--	--	--	--	--	--	--	--	--	--	--	--
19...	1240	69	339	6.9	19.0	14.5	--	--	--	--	149	38.2	12.9

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT													
18...	--	--	--	--	--	--	--	--	--	--	.36	--	--
NOV													
06...	6.2	1.78	40	33	3.8	92.9	.3	10.2	.270	.34	.34	.333	.004
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
18...	6.6	1.88	40	33	4.1	105	.4	10.2	.408	.41	.40	.406	.003
JAN													
10...	--	--	--	--	--	--	--	--	.366	--	.47	.386	--
23...	7.0	1.84	38	31	6.3	108	.3	9.7	.316	.39	.43	.422	.003
FEB													
27...	--	--	--	--	--	--	--	--	.264	--	.37	.350	--
MAR													
14...	5.4	1.39	34	28	5.9	48.1	.2	10.3	.212	.29	.34	.448	.002
APR													
10...	4.5	1.20	33	27	5.5	51.5	.2	9.9	.142	.17	.21	.275	.002
MAY													
01...	--	--	--	--	--	--	--	--	.028	--	.09	.097	--
03...	2.3	.64	24	20	2.2	19.5	<.2	9.2	.048	E.09	E.07	.125	.001
JUN													
12...	3.0	.76	31	25	2.6	31.9	E.1	8.3	.081	E.09	.28	.072	.001
25...	--	--	--	--	--	--	--	--	.089	--	.17	.082	--
JUL													
24...	--	--	--	--	--	--	--	--	.182	--	.35	.169	--
AUG													
06...	--	--	--	--	--	--	--	--	.195	--	.26	.186	--
SEP													
10...	5.9	1.64	--	--	4.8	108	.3	10.1	.368	--	.60	.245	--
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	.013	--	E.08	.135	--

SPOKANE RIVER BASIN

12413470 SOUTH FORK COEUR D'ALENE RIVER NEAR PINEHURST, ID--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT													
18...	--	--	.063	--	--	9.97	9.96	--	--	90	240	6.61	15
NOV													
06...	.023	.020	.035	.6	<2	8.66	8.66	1.2	1.9	80	--	5.61	16
30...	--	--	--	--	--	9.15	9.39	--	--	60	240	4.71	16
DEC													
18...	.020	.020	.061	.4	<3	9.43	9.04	1.2	2.2	90	--	4.45	17
JAN													
10...	--	.018	.058	--	--	10.9	9.86	--	--	100	230	5.22	14
23...	.022	.016	.050	.4	<2	8.93	8.84	1.4	1.5	70	--	5.19	13
FEB													
27...	--	.017	.059	--	--	8.72	8.70	--	--	90	310	4.97	17
MAR													
14...	.018	.014	.079	.5	E1	18.2	18.6	1.4	2.5	80	--	4.36	32
APR													
10...	.015	.013	.037	.4	<2	8.49	9.01	1.4	1.5	90	--	5.11	15
MAY													
01...	--	E.005	.027	--	--	3.29	3.93	--	--	20	560	2.98	68
03...	.009	E.005	.023	.3	<2	4.43	4.79	.9	1.5	30	--	3.16	30
JUN													
12...	.014	.011	.023	.5	<2	4.98	4.99	.8	1.2	70	--	4.90	13
25...	--	.011	.032	--	--	5.31	5.41	--	--	110	200	6.78	13
JUL													
24...	--	.021	.044	--	--	--	--	--	--	--	--	--	--
AUG													
06...	--	.018	.051	--	--	6.56	6.66	--	--	120	250	6.82	15
SEP													
10...	--	.024	.068	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	<.007	.019	--	--	9.11	9.26	--	--	80	220	4.71	13

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT							
18...	1580	1400	1790	1630	--	--	--
NOV							
06...	1400	--	1520	1390	75	1	.32
30...	748	713	1840	1750	--	--	--
DEC							
18...	2550	--	1710	1690	82	2	.51
JAN							
10...	1900	1770	1830	1810	--	--	--
23...	1870	--	1610	1600	75	1	.23
FEB							
27...	842	809	1520	1490	--	--	--
MAR							
14...	317	--	1650	1780	81	5	3.3
APR							
10...	316	--	1340	1270	71	2	1.4
MAY							
01...	78.4	142	477	520	--	21	83
03...	130	--	632	661	81	3	7.4
JUN							
12...	187	--	810	805	86	2	2.1
25...	230	219	889	903	--	1	.68
JUL							
24...	--	--	--	--	--	2	.72
AUG							
06...	315	329	1040	1060	--	2	.58
SEP							
10...	--	--	--	--	--	4	.87
10...	--	--	--	--	--	--	--
19...	641	607	1610	1610	--	--	--

< Less than
E Estimated value
S Most probable value

SPOKANE RIVER BASIN

12413470 SOUTH FORK COEUR D'ALENE RIVER NEAR PINEHURST, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	14.8	11.4	12.4	9.1	7.4	8.0	6.0	4.8	5.2	5.4	4.0	4.6
2	14.7	9.1	11.1	9.2	6.7	7.8	4.9	4.3	4.5	4.4	3.5	4.0
3	11.9	8.7	10.0	8.3	6.3	7.2	5.9	4.5	5.2	4.5	3.7	4.1
4	12.6	8.6	10.2	6.9	6.2	6.5	5.3	3.4	4.1	5.1	4.1	4.6
5	12.6	7.6	9.8	8.0	6.3	7.0	4.5	3.4	4.0	5.5	4.6	4.9
6	12.1	6.8	9.3	8.5	6.2	7.1	5.4	4.3	4.7	5.1	3.1	4.3
7	---	---	---	7.4	5.5	6.4	4.4	4.1	4.2	3.6	1.8	2.7
8	---	---	---	6.5	5.2	5.7	4.7	4.0	4.3	3.2	1.2	2.3
9	---	---	---	6.7	4.4	5.6	4.3	3.2	3.7	4.5	3.1	3.6
10	---	---	---	4.7	3.0	3.8	3.5	2.7	3.1	4.5	3.1	3.7
11	13.8	9.6	11.6	4.1	2.0	3.3	3.5	1.3	2.7	4.0	2.4	3.2
12	11.9	10.5	11.2	4.9	3.7	4.2	2.7	1.0	1.6	3.8	2.8	3.3
13	10.6	10.0	10.3	4.8	2.7	3.8	2.5	1.6	2.0	4.4	3.3	3.9
14	11.1	9.7	10.3	4.8	2.3	3.6	2.6	1.2	1.9	4.1	3.3	3.7
15	11.7	8.6	10.1	4.4	3.4	3.9	2.3	.7	1.4	4.1	2.6	3.3
16	11.5	9.3	10.4	4.7	4.2	4.4	2.0	.9	1.5	3.4	2.4	2.9
17	13.4	10.1	11.5	5.0	3.5	4.3	2.8	1.2	2.1	3.3	1.7	2.5
18	11.4	9.7	10.5	4.9	4.1	4.5	2.8	1.4	2.1	3.4	1.8	2.6
19	12.4	9.9	11.1	5.4	3.2	4.3	3.0	2.0	2.3	3.3	2.9	3.2
20	11.4	9.6	10.6	5.1	2.8	3.9	2.3	1.3	1.9	4.5	2.6	3.4
21	11.0	8.4	9.9	4.8	2.7	3.7	2.3	1.4	1.9	3.6	2.4	3.0
22	10.8	7.7	8.9	4.6	3.1	3.8	3.6	2.0	3.0	5.4	3.4	4.3
23	10.2	6.7	8.3	4.6	3.2	3.9	5.0	3.5	4.2	4.7	2.5	3.6
24	10.1	7.4	8.6	5.1	3.9	4.5	4.5	3.7	4.1	4.2	2.0	3.1
25	9.9	7.3	8.5	5.4	4.6	5.0	4.8	3.7	4.2	4.7	3.5	4.1
26	10.7	7.8	9.2	6.1	4.5	5.3	5.0	3.9	4.4	5.0	2.7	4.0
27	10.4	9.0	9.5	6.2	4.2	5.4	5.5	4.2	4.7	4.0	1.6	2.8
28	9.6	8.0	8.9	5.0	3.1	4.0	4.8	3.9	4.4	4.0	1.8	2.8
29	10.1	8.4	9.1	3.9	3.0	3.5	4.3	3.3	3.9	2.9	1.7	2.3
30	9.4	7.5	8.3	5.1	3.9	4.4	4.1	3.1	3.6	3.7	2.1	2.9
31	7.7	7.2	7.5	---	---	---	4.9	3.9	4.3	3.7	2.5	3.1
MONTH	---	---	---	9.2	2.0	5.0	6.0	.7	3.4	5.5	1.2	3.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.9	3.4	4.0	4.9	1.5	3.4	8.0	4.3	5.9	6.0	4.7	5.3
2	4.4	3.5	4.0	6.6	3.8	4.7	5.9	4.4	5.0	8.2	4.4	6.0
3	5.1	3.5	4.1	6.8	3.3	4.7	5.8	4.0	4.8	10.4	4.5	7.2
4	3.6	1.9	2.6	7.5	2.7	5.2	8.3	2.8	5.3	11.6	5.7	8.4
5	4.7	2.9	3.8	7.3	4.8	5.8	8.8	3.5	6.0	9.4	6.8	8.0
6	5.7	3.1	4.1	8.6	4.2	6.0	7.7	5.2	6.4	10.9	4.8	7.6
7	3.8	1.2	2.6	8.9	4.0	6.2	6.7	5.3	5.9	11.2	5.0	7.9
8	2.8	.7	1.6	7.0	3.7	5.5	5.7	4.2	5.0	11.0	6.1	8.5
9	2.3	.8	1.5	6.2	4.8	5.5	5.8	4.6	5.2	10.9	6.5	8.7
10	4.1	1.1	2.5	5.8	4.1	5.0	7.2	4.5	5.7	11.6	6.1	8.6
11	5.2	2.1	3.4	5.9	3.6	4.7	6.8	4.6	5.6	12.0	5.8	8.8
12	4.0	1.5	2.8	6.8	4.4	5.5	7.3	4.6	5.9	10.9	6.8	8.7
13	5.8	2.7	4.0	7.0	4.7	5.5	6.9	4.6	5.6	11.3	7.4	9.3
14	3.3	1.6	2.5	6.0	4.1	5.0	9.4	4.2	6.5	8.5	6.5	7.1
15	3.7	1.7	2.7	7.2	3.0	5.2	11.0	4.1	7.3	9.1	6.2	7.3
16	2.1	.9	1.5	5.8	4.6	5.1	11.8	4.9	8.3	8.1	6.1	6.9
17	5.0	1.2	3.0	5.7	4.1	4.9	11.0	6.8	8.8	9.1	5.2	7.2
18	5.8	3.1	4.1	6.6	4.4	5.5	8.5	6.3	7.1	8.6	6.6	7.6
19	6.8	3.1	4.7	8.5	4.2	6.3	11.4	5.6	8.1	10.2	5.8	7.6
20	6.4	2.6	4.4	8.0	2.8	5.1	8.4	4.8	6.8	12.3	6.2	9.0
21	5.1	3.3	4.3	8.2	2.9	5.4	11.3	4.9	7.8	12.7	5.8	9.2
22	7.0	4.4	5.5	9.0	3.1	5.8	8.6	5.5	7.1	14.4	7.1	10.6
23	5.5	4.4	5.0	9.5	3.5	6.3	8.0	6.3	7.1	14.8	8.0	11.4
24	5.7	3.8	4.7	9.2	4.2	6.7	11.0	6.1	8.4	15.1	8.6	11.7
25	6.0	3.5	4.6	6.4	5.3	5.7	12.7	6.1	9.1	14.6	8.5	11.4
26	5.2	1.5	3.4	7.2	4.7	5.7	10.8	6.0	8.2	14.3	8.1	11.2
27	6.0	1.2	3.5	7.5	3.8	5.6	10.9	6.0	8.2	14.3	8.3	11.2
28	6.1	1.3	3.6	6.5	4.7	5.4	8.0	5.7	6.6	13.5	9.6	11.2
29	---	---	---	7.5	4.6	5.9	7.0	4.9	5.9	11.7	7.5	9.5
30	---	---	---	10.0	4.7	6.7	6.3	5.4	5.9	11.9	6.4	9.2
31	---	---	---	5.4	3.9	4.5	---	---	---	15.5	7.5	11.4
MONTH	7.0	.7	3.5	10.0	1.5	5.4	12.7	2.8	6.7	15.5	4.4	8.8

SPOKANE RIVER BASIN

12413470 SOUTH FORK COEUR D'ALENE RIVER NEAR PINEHURST, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.3	9.2	12.6	20.5	14.2	17.1	18.8	12.4	15.8	16.8	13.6	15.4
2	13.2	9.8	10.9	20.7	13.0	16.7	21.4	13.9	17.6	19.4	13.2	16.2
3	9.9	7.3	8.2	21.1	13.1	17.1	20.1	14.4	17.5	19.1	13.2	16.2
4	9.3	7.6	8.2	21.8	14.6	18.2	18.5	14.4	16.6	19.3	13.1	16.3
5	10.9	7.0	9.0	19.8	15.2	17.3	20.8	13.3	17.0	16.6	14.2	15.2
6	11.9	8.5	9.9	17.2	12.7	14.6	22.3	14.6	18.4	16.0	11.3	13.7
7	14.6	8.2	11.1	20.4	12.6	16.3	22.5	15.5	19.0	16.8	11.4	14.0
8	13.3	8.7	11.1	21.1	13.6	17.2	22.2	15.0	18.6	16.6	10.8	13.8
9	14.2	10.3	12.0	21.8	13.9	17.8	22.5	15.2	18.8	17.4	10.9	14.2
10	11.7	9.5	10.5	22.1	14.5	18.3	22.2	15.2	18.7	17.6	11.8	14.7
11	11.5	7.9	9.9	19.3	14.5	17.0	22.2	14.9	18.5	18.4	11.9	15.2
12	10.2	8.5	9.3	20.5	14.2	17.1	21.7	14.9	18.3	18.4	12.5	15.5
13	11.2	7.7	9.2	21.2	14.8	17.7	20.3	16.5	18.4	19.0	13.0	16.1
14	11.7	8.5	10.0	21.2	14.2	17.7	22.1	15.2	18.6	19.3	13.2	16.3
15	15.7	8.9	11.9	18.9	14.0	16.5	22.4	15.4	18.9	19.0	13.2	16.2
16	16.0	8.4	12.2	16.2	13.5	14.4	21.7	15.2	18.5	19.2	13.2	16.3
17	14.3	9.1	11.8	16.3	11.6	13.8	21.3	15.0	18.2	17.4	14.4	15.8
18	16.5	9.0	12.5	17.5	11.6	14.7	20.5	14.9	17.7	17.5	12.7	15.2
19	17.6	9.5	13.5	19.9	12.5	15.9	19.9	13.5	16.7	15.9	11.7	13.9
20	18.2	10.5	14.3	19.2	12.7	15.8	19.6	13.0	16.3	16.5	10.6	13.6
21	19.0	11.3	15.1	18.2	14.3	16.2	19.8	12.9	16.4	15.2	11.0	13.2
22	19.1	12.5	15.8	17.4	13.6	15.5	17.6	14.3	16.0	17.2	10.9	14.0
23	17.1	12.4	14.6	21.1	13.5	17.0	17.3	14.3	15.8	17.9	12.0	15.1
24	14.1	12.0	13.1	19.9	14.1	16.9	19.6	13.3	16.2	17.9	12.7	15.4
25	17.4	10.7	13.9	21.3	13.9	17.5	19.5	12.3	15.9	15.8	12.5	14.5
26	16.8	12.0	14.1	21.3	13.7	17.5	20.4	12.8	16.6	15.6	12.9	14.4
27	14.6	12.6	13.5	21.3	13.8	17.5	20.5	13.9	17.3	16.3	13.1	14.5
28	16.7	12.1	14.1	17.4	13.7	15.1	17.5	14.0	15.8	16.3	13.2	14.6
29	19.8	12.1	15.7	16.4	13.1	14.7	20.5	13.1	16.7	15.8	10.9	13.2
30	19.5	12.8	16.2	17.3	12.0	14.6	20.3	14.2	17.4	15.8	10.5	13.2
31	---	---	---	18.1	13.3	15.5	19.7	14.0	17.0	---	---	---
MONTH	19.8	7.0	12.1	22.1	11.6	16.4	22.5	12.3	17.4	19.4	10.5	14.9

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	242	313	312	226	231	318	153	72	---	182	252	226
2	275	312	300	246	329	307	188	85	---	193	203	234
3	283	303	234	304	332	312	194	99	---	200	286	312
4	303	228	327	297	332	315	191	106	---	198	288	250
5	285	236	327	319	311	290	199	92	---	168	268	324
6	223	271	331	315	296	304	169	---	130	208	203	308
7	---	271	319	326	243	276	152	---	139	213	290	300
8	---	285	330	321	346	217	171	---	141	203	299	225
9	---	294	309	239	337	246	192	---	143	179	267	311
10	---	285	260	316	304	251	182	86	147	218	212	325
11	317	232	331	336	232	265	160	87	150	169	278	332
12	298	305	353	330	249	266	176	76	150	174	262	335
13	314	315	339	330	230	247	195	69	151	205	209	339
14	301	316	294	330	246	201	203	66	154	176	208	331
15	237	320	326	301	282	218	211	64	151	177	211	228
16	310	316	353	244	287	198	216	65	134	231	296	319
17	312	307	318	336	290	233	212	77	158	249	271	332
18	281	240	302	339	294	236	192	85	167	216	217	339
19	251	326	257	324	309	182	161	88	158	191	232	339
20	312	328	333	327	327	150	163	88	142	262	293	334
21	269	326	346	308	345	165	135	102	129	264	314	318
22	281	325	294	257	316	160	170	103	173	266	338	240
23	294	305	314	329	229	186	181	104	176	242	333	345
24	301	229	303	333	302	179	158	89	180	193	308	349
25	280	229	245	326	311	156	130	80	178	303	289	351
26	230	293	343	332	306	146	98	98	170	289	220	347
27	314	280	319	330	308	166	81	77	174	277	304	326
28	314	229	299	301	231	185	60	92	157	251	325	328
29	306	293	290	352	---	178	69	102	167	195	321	315
30	309	300	233	336	---	183	80	111	133	275	342	314
31	312	---	229	304	---	176	---	121	---	273	334	---
MEAN	---	287	305	310	291	223	161	---	---	221	273	309
MAX	---	328	353	352	346	318	216	---	---	303	342	351
MIN	---	228	229	226	229	146	60	---	---	168	203	225

12413470 SOUTH FORK COEUR D'ALENE RIVER NEAR PINEHURST, ID--Continued

TURBIDITY IN NTU, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	390.00	8.30	26.00	8.00	2.10	2.80	4.10	<2.00	<2.00	4.80	<2.00	<2.00
2	31.00	5.90	12.00	3.70	2.00	2.40	4.50	<2.00	<2.00	2.70	<2.00	<2.00
3	22.00	<2.00	<2.00	3.30	<2.00	2.70	<2.00	<2.00	<2.00	2.60	<2.00	<2.00
4	14.00	<2.00	3.40	21.00	2.10	3.20	<2.00	<2.00	<2.00	4.30	<2.00	2.20
5	90.00	<2.00	3.70	14.00	2.90	5.90	2.80	<2.00	<2.00	6.00	<2.00	<2.00
6	37.00	<2.00	<2.00	6.40	2.90	3.50	<2.00	<2.00	<2.00	6.20	<2.00	2.10
7	---	---	---	5.70	<2.00	2.80	<2.00	<2.00	<2.00	8.00	<2.00	<2.00
8	---	---	---	5.60	<2.00	2.90	8.60	<2.00	<2.00	3.70	<2.00	<2.00
9	---	---	---	5.00	2.30	2.90	8.60	<2.00	<2.00	3.80	<2.00	<2.00
10	---	---	---	3.90	2.30	3.00	<2.00	<2.00	<2.00	2.40	<2.00	<2.00
11	18.00	<2.00	<2.00	5.40	2.40	2.80	8.80	<2.00	<2.00	5.40	<2.00	<2.00
12	3.10	<2.00	<2.00	6.70	2.30	3.00	5.10	<2.00	<2.00	3.10	<2.00	<2.00
13	4.50	<2.00	2.10	5.40	2.60	3.00	4.70	<2.00	<2.00	3.10	<2.00	<2.00
14	4.40	<2.00	2.00	3.90	2.60	3.20	2.80	<2.00	<2.00	5.60	<2.00	<2.00
15	3.00	<2.00	<2.00	12.00	2.40	3.20	14.00	<2.00	4.30	3.60	<2.00	<2.00
16	5.40	<2.00	<2.00	6.80	2.40	3.10	3.80	<2.00	<2.00	2.70	<2.00	<2.00
17	4.60	<2.00	<2.00	4.30	2.30	2.60	37.00	2.00	3.40	2.40	<2.00	<2.00
18	3.50	<2.00	<2.00	3.90	2.00	2.50	6.60	<2.00	<2.00	4.60	<2.00	<2.00
19	14.00	<2.00	2.10	3.10	<2.00	<2.00	16.00	<2.00	<2.00	21.00	<2.00	<2.00
20	5.50	<2.00	<2.00	3.00	<2.00	<2.00	9.50	<2.00	<2.00	3.60	<2.00	<2.00
21	23.00	2.60	7.40	3.70	<2.00	<2.00	15.00	<2.00	<2.00	12.00	<2.00	<2.00
22	8.90	<2.00	2.20	6.50	<2.00	<2.00	6.30	<2.00	<2.00	4.40	<2.00	<2.00
23	9.50	<2.00	2.10	3.70	<2.00	<2.00	4.80	<2.00	<2.00	14.00	<2.00	<2.00
24	35.00	<2.00	2.30	2.70	<2.00	<2.00	2.30	<2.00	<2.00	3.50	<2.00	<2.00
25	5.50	<2.00	2.20	3.10	<2.00	<2.00	4.30	<2.00	<2.00	25.00	<2.00	<2.00
26	6.40	<2.00	<2.00	8.10	<2.00	<2.00	150.00	<2.00	<2.00	6.30	<2.00	<2.00
27	3.40	<2.00	2.40	2.80	<2.00	<2.00	7.60	<2.00	<2.00	5.90	<2.00	<2.00
28	5.10	<2.00	2.60	4.70	<2.00	<2.00	16.00	<2.00	<2.00	9.40	<2.00	<2.00
29	5.10	2.30	2.90	2.80	<2.00	<2.00	8.10	<2.00	<2.00	7.00	<2.00	<2.00
30	4.20	2.00	2.80	<2.00	<2.00	<2.00	3.50	<2.00	<2.00	60.00	<2.00	<2.00
31	4.50	<2.00	2.50	---	---	---	3.40	<2.00	<2.00	2.80	<2.00	<2.00
MAX	---	---	---	21.00	2.90	5.90	150.00	2.00	4.30	60.00	<2.00	2.20
MIN	---	---	---	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	2.40	<2.00	<2.00

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	FEBRUARY			MARCH			APRIL			MAY		
1	2.00	<2.00	<2.00	140.00	<2.00	2.50	5.50	<2.00	3.10	58.00	6.50	15.00
2	6.60	<2.00	2.20	15.00	<2.00	2.50	4.50	2.30	3.20	21.00	3.20	7.30
3	4.70	<2.00	<2.00	2.80	<2.00	<2.00	8.50	2.00	3.30	24.00	3.30	9.50
4	2.70	<2.00	<2.00	5.20	<2.00	<2.00	13.00	2.30	3.30	37.00	2.10	3.70
5	10.00	<2.00	2.60	4.70	<2.00	2.20	8.10	<2.00	2.60	76.00	2.30	6.10
6	4.10	<2.00	2.10	8.50	2.00	3.10	5.00	2.00	3.30	---	---	---
7	3.30	<2.00	<2.00	15.00	2.80	4.20	6.40	<2.00	2.70	---	---	---
8	6.80	<2.00	<2.00	27.00	4.10	6.90	9.00	3.20	3.70	---	---	---
9	2.80	<2.00	<2.00	27.00	8.00	12.00	5.40	<2.00	3.60	---	---	---
10	15.00	<2.00	<2.00	120.00	4.30	7.50	3.00	<2.00	<2.00	>1000.00	2.30	6.60
11	4.80	<2.00	<2.00	33.00	3.30	5.20	4.40	<2.00	<2.00	>1000.00	2.50	7.10
12	2.80	<2.00	<2.00	8.20	2.30	4.50	2.50	<2.00	<2.00	12.00	2.20	3.50
13	8.40	<2.00	<2.00	34.00	2.90	7.00	2.20	<2.00	<2.00	82.00	4.50	9.30
14	<2.00	<2.00	<2.00	180.00	4.80	9.50	7.90	<2.00	<2.00	14.00	5.50	9.40
15	3.00	<2.00	<2.00	11.00	2.20	5.50	210.00	<2.00	<2.00	27.00	8.20	11.00
16	5.10	<2.00	2.00	8.60	2.20	4.00	140.00	<2.00	<2.00	170.00	3.70	9.40
17	2.30	<2.00	<2.00	5.90	<2.00	3.00	6.80	<2.00	<2.00	9.50	2.30	4.00
18	2.40	<2.00	2.00	6.30	<2.00	2.80	180.00	<2.00	2.60	7.50	<2.00	3.20
19	4.50	<2.00	2.00	81.00	3.10	25.00	5.80	<2.00	3.00	7.30	<2.00	<2.00
20	3.50	<2.00	2.00	63.00	3.90	8.50	4.30	<2.00	2.60	4.70	<2.00	<2.00
21	4.60	<2.00	2.30	5.90	2.60	3.40	19.00	<2.00	<2.00	2.90	<2.00	<2.00
22	8.80	<2.00	2.70	6.40	2.10	3.10	130.00	<2.00	3.30	7.40	<2.00	<2.00
23	7.70	2.40	3.60	15.00	2.10	3.70	4.20	<2.00	<2.00	6.40	<2.00	<2.00
24	6.20	<2.00	2.30	12.00	2.80	4.00	8.10	<2.00	2.70	7.00	2.20	3.70
25	5.10	2.10	2.60	11.00	4.40	6.30	19.00	3.40	8.40	13.00	<2.00	4.20
26	220.00	<2.00	2.70	11.00	2.50	5.60	51.00	14.00	24.00	8.40	<2.00	2.70
27	4.20	<2.00	2.10	9.20	<2.00	2.70	170.00	25.00	39.00	5.50	<2.00	2.50
28	16.00	<2.00	2.00	5.90	<2.00	2.50	140.00	21.00	42.00	5.30	<2.00	2.90
29	---	---	---	4.10	<2.00	<2.00	73.00	8.40	13.00	9.40	<2.00	2.30
30	---	---	---	8.60	<2.00	<2.00	29.00	6.00	11.00	8.00	<2.00	2.10
31	---	---	---	7.60	<2.00	2.50	---	---	---	14.00	<2.00	2.00
MAX	220.00	2.40	3.60	180.00	8.00	25.00	210.00	25.00	42.00	---	---	---
MIN	<2.00	<2.00	<2.00	2.80	<2.00	<2.00	2.20	<2.00	<2.00	---	---	---

< Actual value is known to be less than the value shown
> Actual value is known to be greater than the value shown

SPOKANE RIVER BASIN

12413470 SOUTH FORK COEUR D'ALENE RIVER NEAR PINEHURST, ID--Continued

TURBIDITY IN NTU, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	26.00	4.70	14.00	2.70	<2.00	<2.00	<2.00	<2.00	<2.00
2	---	---	---	39.00	10.00	24.00	3.00	<2.00	<2.00	2.60	<2.00	<2.00
3	---	---	---	48.00	<2.00	30.00	2.90	<2.00	<2.00	3.10	<2.00	<2.00
4	---	---	---	31.00	<2.00	4.30	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
5	---	---	---	2.20	<2.00	<2.00	<2.00	<2.00	<2.00	31.00	<2.00	<2.00
6	<2.00	<2.00	<2.00	5.10	<2.00	<2.00	18.00	<2.00	<2.00	<2.00	<2.00	<2.00
7	<2.00	<2.00	<2.00	2.40	<2.00	<2.00	43.00	<2.00	<2.00	16.00	<2.00	<2.00
8	4.20	<2.00	<2.00	2.00	<2.00	<2.00	3.00	<2.00	<2.00	2.70	<2.00	<2.00
9	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	4.10	<2.00	<2.00	2.30	<2.00	<2.00
10	2.30	<2.00	<2.00	<2.00	<2.00	<2.00	3.60	<2.00	<2.00	2.70	<2.00	<2.00
11	3.40	<2.00	<2.00	3.80	<2.00	<2.00	3.90	<2.00	<2.00	14.00	<2.00	<2.00
12	3.70	<2.00	<2.00	48.00	<2.00	<2.00	3.40	<2.00	<2.00	4.90	<2.00	<2.00
13	2.80	<2.00	<2.00	8.10	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
14	4.50	<2.00	<2.00	<2.00	<2.00	<2.00	7.10	<2.00	<2.00	2.40	<2.00	<2.00
15	4.20	<2.00	<2.00	2.70	<2.00	<2.00	3.90	<2.00	<2.00	<2.00	<2.00	<2.00
16	120.00	<2.00	<2.00	4.60	<2.00	<2.00	2.10	<2.00	<2.00	<2.00	<2.00	<2.00
17	2.90	<2.00	<2.00	8.70	<2.00	<2.00	>1000.00	<2.00	<2.00	<2.00	<2.00	<2.00
18	3.60	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	5.20	<2.00	<2.00
19	3.00	<2.00	<2.00	85.00	<2.00	<2.00	5.70	<2.00	<2.00	6.10	<2.00	<2.00
20	4.10	<2.00	<2.00	16.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
21	<2.00	<2.00	<2.00	>1000.00	<2.00	12.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
22	11.00	<2.00	<2.00	>1000.00	610.00	>1000.00	4.10	<2.00	<2.00	2.90	<2.00	<2.00
23	<2.00	<2.00	<2.00	>1000.00	<2.00	450.00	<2.00	<2.00	<2.00	3.00	<2.00	<2.00
24	4.20	<2.00	<2.00	190.00	<2.00	3.20	2.70	<2.00	<2.00	<2.00	<2.00	<2.00
25	4.40	<2.00	<2.00	970.00	<2.00	<2.00	2.30	<2.00	<2.00	8.40	<2.00	<2.00
26	6.00	<2.00	<2.00	<2.00	<2.00	<2.00	5.60	<2.00	<2.00	4.40	<2.00	<2.00
27	6.90	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	3.30	<2.00	<2.00
28	8.10	2.00	3.60	2.20	<2.00	<2.00	<2.00	<2.00	<2.00	140.00	<2.00	2.40
29	5.20	2.00	4.00	15.00	<2.00	<2.00	13.00	<2.00	<2.00	2.70	<2.00	<2.00
30	11.00	3.90	5.80	2.70	<2.00	<2.00	89.00	<2.00	<2.00	9.40	<2.00	<2.00
31	---	---	---	2.50	<2.00	<2.00	2.70	<2.00	<2.00	---	---	---
MAX	---	---	---	>1000.00	610.00	>1000.00	>1000.00	<2.00	<2.00	140.00	<2.00	2.40
MIN	---	---	---	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00

< Actual value is known to be less than the value shown
> Actual value is known to be greater than the value shown

SPOKANE RIVER BASIN

12413500 COEUR D'ALENE RIVER AT CATALDO, ID

LOCATION (Revised).--Lat 47°33'17", long 116°19'26"(revised), in NW¼SE¼NW¼ sec.34, T.49 N., R.1 E., Kootenai County, Hydrologic Unit 17010303, Cataldo quadrangle, on left bank at Cataldo, downstream side of abandoned railroad bridge, 0.9 mi upstream from Interstate Highway 90, 1.5 mi downstream from old gage site, 3.4 mi upstream from Latour Creek, about 2 mi upstream from Coeur d'Alene Lake backwater, 4.9 mi downstream from South Fork, and at mile 162.9.

DRAINAGE AREA.--1,223 mi^2, approximately.

PERIOD OF RECORD.--April 1911 to December 1912, July 1920 to September 1972, October 1986 to current year. Miscellaneous measurements made at this site 1972-80, published as 12413600.

REVISED RECORDS.--WSP 1396: WSP 1736: 1934 M.

GAGE.--Water-stage recorder. Gage readings have been reduced to datum of gage at 2,100.00 ft above National Geodetic Vertical Datum of 1929. Sea level datum is 3.67 ft higher, based on National Geodetic Survey adjustment in 1991. Apr. 25, 1911 to Dec. 31, 1912, nonrecording gage at site 1.4 mi upstream at different datum. July 29, 1920 to Oct. 10, 1925, nonrecording gage, Oct. 11, 1925 to Sept. 30, 1972, recording gage at site 1.5 mi upstream at datum 2.84 ft lower and Aug. 22, 1986 to Feb. 3, 1997 at site 50 ft upstream at same datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,000 ft^3/s Feb. 9, 1996, gage height, 51.62 ft, from rating curve extended above 30,000 ft^3/s, on basis of runoff comparisons with upstream stations; maximum gage height, 56.90 ft, datum then in use, Dec. 22 or 23, 1933, (from floodmark); minimum discharge, 122 ft^3/s Dec. 4, 1929; minimum gage height, 32.89 ft, Oct. 1-7, 1994.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 16, 1974 reached a discharge of 79,000 ft^3/s, by indirect computation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above a base discharge of 11,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 29	0115	*11,000	*39.99	No other peak greater than base discharge.			

Minimum daily, 243 ft^3/s Sept. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	812	402	354	319	329	357	1830	9000	1740	759	434	271
2	695	395	351	319	339	402	1790	8070	1700	727	417	270
3	546	385	343	319	334	414	1740	6220	1630	698	404	267
4	482	391	339	335	346	394	1620	5150	1730	674	391	262
5	447	478	336	353	349	393	1500	4800	1630	654	387	262
6	423	494	325	382	366	419	1460	4670	1570	656	376	266
7	411	460	324	376	350	460	1460	4260	1490	666	369	265
8	403	442	328	315	287	547	1520	3950	1400	633	360	264
9	395	440	330	289	269	673	1480	4120	1370	599	352	262
10	389	e420	331	355	306	764	1440	4320	1320	579	345	261
11	385	e380	322	368	337	778	1440	4120	1270	561	340	257
12	379	359	278	362	334	748	1370	4070	1300	558	334	256
13	384	370	249	350	326	755	1340	4600	1330	562	330	252
14	386	e360	269	345	312	894	1270	5110	1250	543	326	248
15	381	336	315	336	319	949	1210	6190	1250	526	323	247
16	377	350	270	316	310	934	1200	7100	1180	548	319	248
17	374	358	325	300	308	906	1320	6170	1120	565	313	261
18	373	348	326	297	322	860	1730	5130	1080	546	306	256
19	383	e340	329	318	324	1260	2210	4340	1030	520	298	252
20	388	e340	325	327	324	2270	2420	3810	993	502	297	253
21	493	316	310	321	328	2060	2440	3370	954	500	293	252
22	516	320	313	327	352	1800	2400	3110	918	491	293	251
23	469	327	323	325	385	1680	2440	3080	889	485	295	251
24	434	337	335	313	414	1690	2780	3310	869	470	308	248
25	410	339	331	302	416	1930	3630	3440	869	460	307	243
26	388	352	331	324	394	2480	5210	3230	843	446	296	254
27	383	367	330	309	364	2520	6900	2910	848	435	290	261
28	381	373	329	290	343	2260	9410	2730	949	432	282	283
29	401	362	327	283	---	2010	10300	2430	883	453	283	291
30	406	356	320	300	---	1900	7860	2120	803	454	280	282
31	399	---	316	333	---	1810	---	1890	---	449	277	---
TOTAL	13493	11297	9934	10108	9487	37317	84720	136820	36208	17151	10225	7796
MEAN	435	377	320	326	339	1204	2824	4414	1207	553	330	260
MAX	812	494	354	382	416	2520	10300	9000	1740	759	434	291
MIN	373	316	249	283	269	357	1200	1890	803	432	277	243
AC-FT	26760	22410	19700	20050	18820	74020	168000	271400	71820	34020	20280	15460
CFSM	.36	.31	.26	.27	.28	.98	2.31	3.61	.99	.45	.27	.21
IN.	.41	.34	.30	.31	.29	1.14	2.58	4.16	1.10	.52	.31	.24

SPOKANE RIVER BASIN

12413500 COEUR D'ALENE RIVER AT CATALDO, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	569	1340	1986	1836	2572	3333	7286	6951	2685	908	482	417
MAX	1984	6529	13230	8323	10430	10340	12570	13690	6769	1906	898	839
(WY)	1928	1928	1934	1934	1996	1972	1943	1997	1933	1950	1948	1927
MIN	276	238	276	241	276	810	2489	1895	768	404	273	260
(WY)	1945	1930	1931	1930	1929	1955	1941	1992	1926	1926	1940	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1911 - 2001	
ANNUAL TOTAL	884724		384556			
ANNUAL MEAN	2417		1054		2525	
HIGHEST ANNUAL MEAN					4057	1996
LOWEST ANNUAL MEAN					1043	1944
HIGHEST DAILY MEAN	26100	Apr 15	10300	Apr 29	56000	Feb 9 1996
LOWEST DAILY MEAN	249	Dec 13	243	Sep 25	141	Dec 5 1929
ANNUAL SEVEN-DAY MINIMUM	290	Dec 11	250	Sep 19	176	Jan 16 1930
ANNUAL RUNOFF (AC-FT)	1755000		762800		1829000	
ANNUAL RUNOFF (CFSM)	1.98		.86		2.06	
ANNUAL RUNOFF (INCHES)	26.91		11.70		28.05	
10 PERCENT EXCEEDS	5720		2500		6800	
50 PERCENT EXCEEDS	1060		393		1100	
90 PERCENT EXCEEDS	342		283		348	

e Estimated

SPOKANE RIVER BASIN

12413860 COEUR D'ALENE RIVER NEAR HARRISON, ID

LOCATION.--Lat 47°28'43", long 116°43'56", in NE¼SW¼NW¼ sec.28, T.48 N., R.3 W., Kootenai County, Hydrologic Unit 17010303, on left bank 50 ft downstream from Springston Bridge, 2.5 mi upstream from Coeur d'Alene Lake, 3.0 mi northeast of Harrison, and at mile 134.6.

DRAINAGE AREA.--1,475 mi^2, approximately.

WATER-STAGE RECORDS

PERIOD OF RECORD.--January 1991 to current year (gage heights and discharge measurements only).

GAGE.--Water-stage recorder. Datum of gage is 2,100.00 ft above sea level. Gage heights have been reduced to that datum.

REMARKS.--Elevations affected by backwater from Coeur d'Alene Lake. Add 2,100 ft to gage heights to obtain elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 2,133.59 ft, May 18, 19, 1997; minimum, 2,118.02 ft, Jan. 18, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2,125.47 ft, May 2, 3; minimum, 2,117.99 ft, Jan. 9, 10.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.21	21.85	19.76	18.23	18.25	18.17	21.68	25.01	24.98	25.08	25.09	25.05
2	24.20	21.75	19.70	18.20	18.26	18.19	21.77	25.38	25.00	25.07	25.08	25.04
3	24.16	21.66	19.65	18.16	18.27	18.18	21.84	25.44	25.00	25.06	25.08	25.03
4	24.11	21.60	19.59	18.13	18.30	18.18	21.88	25.32	25.01	25.05	25.08	25.02
5	24.05	21.52	19.53	18.12	18.34	18.17	21.86	25.15	25.04	25.05	25.08	25.02
6	23.99	21.44	19.52	18.10	18.36	18.17	21.85	24.93	25.05	25.03	25.08	25.00
7	23.92	21.35	19.53	18.08	18.36	18.19	21.85	24.79	25.03	25.04	25.08	24.98
8	23.84	21.29	19.53	18.04	18.34	18.24	21.83	24.70	25.00	25.05	25.08	24.98
9	23.75	21.23	19.47	18.01	18.32	18.34	21.81	24.66	25.00	25.06	25.08	24.97
10	23.67	21.14	19.41	18.01	18.31	18.45	21.78	24.75	24.97	25.07	25.08	24.96
11	23.58	21.03	19.36	18.04	18.31	18.54	21.76	24.86	24.96	25.06	25.08	24.93
12	23.50	20.92	19.27	18.06	18.28	18.63	21.73	24.96	24.97	25.06	25.08	24.89
13	23.42	20.82	19.20	18.08	18.26	18.76	21.70	25.05	24.98	25.06	25.09	24.85
14	23.33	---	19.13	18.11	18.23	18.85	21.64	25.21	24.98	25.06	25.09	24.81
15	23.25	---	19.14	18.12	18.22	18.95	21.58	25.31	24.97	25.06	25.09	24.77
16	23.16	20.57	19.03	18.13	18.22	19.04	21.52	25.43	24.97	25.06	25.09	24.73
17	23.08	20.50	19.00	18.13	18.21	19.11	21.46	25.44	24.97	25.07	25.09	24.71
18	23.00	20.44	18.92	18.13	18.20	19.16	21.46	25.35	24.96	25.07	25.09	24.67
19	22.91	20.37	18.86	18.16	18.19	19.33	21.54	25.21	24.95	25.07	25.08	24.61
20	22.83	20.31	18.80	18.18	18.17	19.68	21.64	25.08	24.95	25.08	25.07	24.56
21	22.78	20.24	18.75	18.19	18.16	19.98	21.73	25.01	24.93	25.08	25.07	24.52
22	22.70	20.17	18.70	18.23	18.18	20.14	21.80	24.98	24.93	25.09	25.06	24.48
23	22.63	20.10	18.66	18.25	18.18	20.27	21.86	24.96	24.92	25.10	25.07	24.44
24	22.54	20.05	18.62	18.25	18.20	20.40	21.97	25.00	24.93	25.11	25.07	24.40
25	22.45	19.99	18.57	18.26	18.22	20.57	22.14	25.05	24.93	25.11	25.06	24.36
26	22.36	19.96	18.52	18.27	18.22	20.85	22.48	25.10	24.94	25.11	25.06	24.32
27	22.27	19.94	18.47	18.27	18.21	21.07	22.97	25.13	24.98	25.11	25.06	24.29
28	22.19	19.88	18.42	18.28	18.19	21.25	23.62	25.13	25.04	25.11	25.06	24.26
29	22.11	19.85	18.36	18.28	---	21.37	24.21	25.07	25.07	25.10	25.06	24.22
30	22.03	19.80	18.30	18.27	---	21.48	24.58	25.00	25.08	25.10	25.06	24.19
31	21.94	---	18.27	18.25	---	21.56	---	24.98	---	25.09	25.06	---
MEAN	23.16	---	19.03	18.16	18.25	19.40	22.05	25.08	24.98	25.07	25.08	24.70
MAX	24.21	---	19.76	18.28	18.36	21.56	24.58	25.44	25.08	25.11	25.09	25.05
MIN	21.94	---	18.27	18.01	18.16	18.17	21.46	24.66	24.92	25.03	25.06	24.19

SPOKANE RIVER BASIN

12413860 COEUR D' ALENE RIVER NEAR HARRISON, ID--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT													
17...	0810	518	94	7.5	9.5	10.7	36.5	9.10	3.35	.005	E.08	.046	<.007
NOV													
28...	0750	459	120	7.2	-2.5	1.8	50.0	12.3	4.71	<.002	.45	<.005	<.007
JAN													
09...	1405	237	121	7.2	10.5	2.6	49.2	12.2	4.52	.058	.17	.144	<.007
FEB													
27...	0730	320	115	6.8	-8.0	2.0	45.2	11.2	4.16	.050	.15	.110	<.007
APR													
10...	1430	1740	66	7.2	5.0	5.7	26.7	6.66	2.44	.004	.12	.051	<.007
MAY													
02...	1515	7770	37	6.9	14.5	6.0	15.8	3.96	1.43	.008	.09	.045	<.007
JUN													
26...	0755	887	84	7.2	16.5	17.5	33.2	8.34	3.00	<.002	.10	.006	<.007
AUG													
08...	0645	165	108	6.6	15.5	22.0	42.9	10.9	3.84	.009	.10	<.005	<.007
SEP													
18...	1700	153	118	7.2	25.0	20.0	48.0	12.1	4.34	.004	.12	.008	<.007

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT											
17...	.009	1.28	1.34	240	70	5.55	23	139	119	282	269
NOV											
28...	<.004	2.40	2.53	370	110	7.17	25	478	517	535	484
JAN											
09...	.011	1.94	1.92	800	190	16.6	70	395	386	464	494
FEB											
27...	.019	.59	2.37	1100	80	3.15	40	350	357	465	492
APR											
10...	.010	1.47	--	670	80	6.30	--	--	150	274	--
MAY											
02...	.022	.69	1.06	730	30	5.76	78	106	38.7	115	147
JUN											
26...	.006	1.50	1.59	180	70	6.08	21	122	102	272	303
AUG											
08...	.007	1.20	1.40	150	20	1.45	18	141	38.3	266	294
SEP											
18...	.007	.84	1.01	110	20	1.16	14	49	4.0	196	220

E Estimated value

SPOKANE RIVER BASIN

12413875 ST. JOE RIVER AT RED IVES RANGER STATION, ID

LOCATION.--Lat 47°03'22", long 115°21'08", in NW¼NW¼SE¼ sec.20, T.43 N., R.9 E., Shoshone County, Red Ives Peak quad., Hydrologic Unit 17010304, on left bank downstream side of U.S. Forest Service access bridge, at Red Ives Ranger Station, and at mile 103.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,710 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,230 ft³/s May 25, 26, 1999, gage height, 5.34 ft; minimum daily, 40 ft³/s Dec. 12, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,350 ft³/s May 16, gage height, 3.69 ft; minimum daily, 40 ft³/s Dec. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238	74	e65	e60	e60	e55	95	568	615	218	112	66
2	122	e65	e60	e60	e60	e65	89	460	592	210	105	66
3	93	e65	e60	e60	e55	e65	83	399	547	203	102	65
4	85	e70	e55	e60	e55	e65	78	391	565	196	103	64
5	81	76	e55	e65	e60	e60	77	419	500	199	103	65
6	79	66	e55	e60	e60	57	84	405	509	194	99	65
7	77	e50	e55	e50	e60	59	81	411	483	186	96	65
8	77	e50	e55	e50	e50	66	80	443	472	177	94	66
9	77	e50	e55	e55	e46	69	75	507	478	172	91	64
10	75	e46	e55	e55	e55	67	75	565	455	167	91	64
11	75	e44	e50	e60	e60	63	73	611	427	162	89	63
12	74	e48	e40	e60	e55	59	72	721	459	160	87	63
13	85	e46	e44	e60	e55	58	72	957	427	156	87	63
14	89	e44	e48	e55	e55	58	69	1080	410	153	86	62
15	81	e46	e55	e55	e55	57	69	1250	393	152	83	62
16	77	e50	e46	e50	e55	58	80	1260	377	179	82	64
17	77	e55	e55	e50	e55	57	94	1070	365	156	80	62
18	73	e50	e50	e50	e60	57	110	930	352	149	79	61
19	76	e46	e48	e55	e60	89	129	830	338	143	78	57
20	75	e46	e44	e55	e60	111	127	782	325	140	78	57
21	104	e46	e46	e55	e60	97	121	739	315	141	76	56
22	85	e50	e50	e55	e65	95	122	762	305	135	75	56
23	78	e50	e55	e55	e65	99	129	867	293	131	75	56
24	76	e55	e55	e50	e65	111	151	1040	281	127	75	56
25	74	e65	e55	e55	e60	123	212	1160	275	122	75	56
26	74	e70	e60	e55	e55	128	308	1110	261	119	72	56
27	74	e70	e65	e50	e50	112	460	1010	258	116	71	56
28	74	e55	e60	e48	e50	106	583	957	257	115	71	58
29	87	e60	e55	e50	---	101	489	819	238	112	71	57
30	78	e65	e55	e55	---	95	540	700	228	111	69	56
31	75	---	e60	e60	---	89	---	639	---	124	66	---
TOTAL	2665	1673	1666	1713	1601	2451	4827	23862	11800	4825	2621	1827
MEAN	86.0	55.8	53.7	55.3	57.2	79.1	161	770	393	156	84.5	60.9
MAX	238	76	65	65	65	128	583	1260	615	218	112	66
MIN	73	44	40	48	46	55	69	391	228	111	66	56
AC-FT	5290	3320	3300	3400	3180	4860	9570	47330	23410	9570	5200	3620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	87.3	110	99.4	109	92.2	125	395	1106	858	321	126	86.1
MAX	99.0	157	132	178	111	157	678	1349	1664	634	166	103
(WY)	2000	1998	2000	1999	1999	1998	2000	1998	1999	1999	1999	1999
MIN	76.9	55.8	53.7	55.3	57.2	79.1	161	770	393	156	84.5	60.9
(WY)	1999	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	110107		61531			
ANNUAL MEAN	301		169		294	
HIGHEST ANNUAL MEAN					397	1999
LOWEST ANNUAL MEAN					169	2001
HIGHEST DAILY MEAN	1730	May 23	1260	May 16	2950	May 26 1999
LOWEST DAILY MEAN	40	Dec 12	40	Dec 12	40	Dec 12 2000
ANNUAL SEVEN-DAY MINIMUM	46	Nov 9	46	Nov 9	46	Nov 9 2000
ANNUAL RUNOFF (AC-FT)	218400		122000		212800	
10 PERCENT EXCEEDS	982		465		875	
50 PERCENT EXCEEDS	104		74		117	
90 PERCENT EXCEEDS	55		50		63	

e Estimated

SPOKANE RIVER BASIN

12413875 ST JOE RIVER NEAR RED IVES, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1997 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July to September 1999, June to September 2001.

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 22.0 °C August 7, 2001.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 22.0 °C Aug. 7.

WATER-QUALITY DATA, NOVEMBER 2000 TO OCTOBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)	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													
07...	1015	47	49	7.2	-2.5	0	--	13.3	104	--	23.0	6.86	1.42
JAN													
24...	1345	108	47	7.5	-2.5	-0.1	--	12.7	99.6	--	21.4	6.39	1.33
MAY													
09...	1200	482	33	7.9	17.0	6.0	--	11.1	103	--	14.0	4.14	.899
29...	1515	787	33	7.7	15.0	8.5	.8	10.4	101	<1	--	--	--
JUN													
13...	0930	423	37	7.6	4.5	3.7	1.1	11.5	99.7	S2	17.3	5.07	1.13
JUL													
19...	0615	143	52	7.5	7.5	10.1	.6	8.5	86.5	S16	--	--	--
AUG													
07...	0820	97	53	7.5	15.5	12.7	3.4	7.8	83.5	S22	--	--	--
SEP													
13...	1045	63	51	7.7	12.5	9.5	.7	7.9	80.4	<1	24.2	7.16	1.52
OCT													
02...	1110	55	53	7.3	13.5	6.4	.7	11.0	102	S3	--	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	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)
NOV													
07...	1.1	8.83	.63	29	24	.3	1.3	<.2	7.7	36	34	0	4.6
JAN													
24...	1.1	9.54	.66	28	23	.2	1.2	<.2	7.8	31	33	0	9.0
MAY													
09...	.8	10.6	.48	18	15	.1	.8	<.2	5.9	36	22	0	47
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
13...	.8	8.98	.43	24	19	.1	.8	<.2	6.4	27	26	0	31
JUL													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
13...	1.1	8.72	.59	31	25	.1	1.3	<.2	6.0	28	33	0	4.8
OCT													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--

12413875 ST JOE RIVER NEAR RED IVES, ID--Continued

WATER-QUALITY DATA, NOVEMBER 2000 TO OCTOBER 2001

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
NOV													
07...	<.002	<.10	.15	.010	<.001	<.006	<.007	E.003	E.2	<2	<.04	<.04	E.2
JAN													
24...	<.002	<.10	<.08	.045	<.001	.006	<.007	.005	.2	<2	<.04	<.04	.4
MAY													
09...	<.002	<.10	.15	.028	.003	<.060	<.007	.005	E.1	<2	E.02	<.04	.3
29...	.005	--	.16	.009	--	--	<.007	.006	--	--	--	--	--
JUN													
13...	<.002	<.10	<.08	.005	<.001	<.006	<.007	.004	E.1	<2	<.04	<.04	E.2
JUL													
19...	.003	--	E.06	.006	--	--	<.007	.007	--	--	--	--	--
AUG													
07...	<.002	--	E.05	.007	--	--	<.007	.004	--	--	--	--	--
SEP													
13...	<.002	<.10	E.06	.005	<.001	<.006	<.007	E.003	.3	<2	<.04	<.04	.4
OCT													
02...	<.015	--	<.10	<.013	--	--	<.007	E.003	--	--	--	--	--

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV										
07...	<.6	<10	<.08	<1	E2.0	<1	<1	75	1	.13
JAN										
24...	<.6	<10	.09	<1	<3.2	<1	<1	67	1	.29
MAY										
09...	E.3	<10	<.08	<1	<3.2	<1	<1	60	2	2.6
29...	--	--	--	--	--	--	--	--	2	4.2
JUN										
13...	<.6	<10	<.08	<1	<3.0	<1	<1	75	1	1.1
JUL										
19...	--	--	--	--	--	--	--	--	1	.39
AUG										
07...	--	--	--	--	--	--	--	--	4	1.0
SEP										
13...	<.6	<10	<.08	<1	<3.0	<1	<1	71	1	.17
OCT										
02...	--	--	--	--	--	--	--	--	1	.15

E Estimated value
S Most probable value

PEND OREILLE RIVER BASIN

12413875 ST JOE RIVER NEAR RED IVES , ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, JUNE TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.8	5.4	8.6	18.4	11.3	14.7	17.4	9.1	12.8	17.4	10.5	14.0
2	10.1	6.8	8.1	18.8	11.1	15.0	19.8	10.4	14.8	17.9	10.4	13.9
3	7.0	4.3	5.1	19.2	10.8	14.8	19.5	11.4	15.5	18.0	10.1	13.8
4	4.9	2.6	3.8	20.5	13.0	16.4	17.2	12.1	14.6	17.7	9.6	13.5
5	6.7	3.7	5.2	16.8	13.3	15.2	20.3	12.1	15.7	13.8	10.7	12.1
6	8.4	5.1	6.4	14.5	10.8	12.4	21.3	12.1	16.4	14.1	8.4	11.3
7	9.4	4.8	7.1	18.2	9.7	13.7	22.0	12.8	17.1	13.9	9.3	11.1
8	11.0	5.3	8.1	20.1	11.6	15.4	21.8	13.2	17.2	13.6	6.3	9.9
9	11.1	7.7	9.2	20.1	12.4	16.1	21.5	12.7	16.8	14.1	6.2	9.9
10	9.0	6.8	7.6	21.1	13.2	17.0	21.3	12.4	16.6	14.4	6.8	10.5
11	8.7	5.4	6.9	18.7	12.8	15.8	21.1	12.4	16.5	15.2	7.3	11.0
12	7.3	4.3	5.8	19.7	12.8	16.2	20.3	12.2	16.2	15.8	8.0	11.5
13	6.3	3.5	4.9	17.7	13.3	15.8	19.8	14.2	17.1	15.8	9.1	12.3
14	9.1	5.1	6.9	19.8	11.8	15.7	19.3	13.2	16.4	16.1	9.0	12.4
15	10.7	5.6	7.8	17.1	13.2	14.9	20.3	12.4	16.2	15.6	8.4	11.9
16	12.4	5.3	8.7	14.7	11.3	12.7	20.3	12.1	16.0	15.3	8.7	11.6
17	9.7	6.3	8.3	13.2	9.6	11.3	20.6	12.1	16.2	14.4	9.0	11.5
18	10.4	6.2	8.3	15.8	9.1	12.1	20.8	12.8	16.5	15.2	9.9	12.2
19	12.8	5.9	9.2	16.0	10.2	13.0	19.3	11.1	15.0	12.2	7.3	9.9
20	14.2	6.8	10.5	18.7	9.7	13.9	18.5	9.7	13.9	12.5	6.2	9.1
21	15.8	8.4	11.9	16.1	12.4	14.0	18.4	9.6	13.7	11.1	6.0	8.6
22	16.4	9.7	12.9	14.5	10.2	12.4	15.8	10.5	13.4	12.8	5.7	9.1
23	16.4	10.1	13.1	16.8	9.9	13.1	15.8	10.7	13.1	13.3	6.3	9.8
24	13.3	10.2	11.8	18.0	10.8	14.3	17.1	11.8	13.9	14.1	7.6	10.5
25	14.4	8.4	11.0	19.5	11.0	14.8	17.9	9.0	13.1	12.2	7.3	10.2
26	13.3	9.4	11.1	19.3	10.8	14.9	18.7	9.4	13.8	13.2	9.3	11.2
27	13.2	10.2	11.3	19.7	11.0	15.2	19.7	10.5	14.7	13.3	8.7	10.9
28	15.2	9.9	12.1	15.5	11.4	13.0	15.5	11.1	13.8	11.1	9.4	10.0
29	16.9	9.6	12.8	14.1	9.6	11.9	18.7	9.6	13.7	13.2	8.4	10.1
30	17.1	10.2	13.5	12.4	10.2	11.5	19.0	10.4	14.4	11.4	5.6	8.4
31	---	---	---	13.3	10.2	11.3	18.0	10.5	14.1	---	---	---
MONTH	17.1	2.6	8.9	21.1	9.1	14.1	22.0	9.0	15.1	18.0	5.6	11.1

SPOKANE RIVER BASIN

12414500 ST. JOE RIVER AT CALDER, ID

LOCATION.--Lat 47°16'29", long 116°11'17", in NW¼NW¼SE¼ sec.3, T.45 N., R.2 E., Shoshone County, Hydrologic Unit 17010304, on right bank, 125 ft downstream from road bridge at Calder, and at mile 42.9.

DRAINAGE AREA.--1,030 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1911 to September 1912 (published as "near Calder"), July 1920 to current year.

REVISED RECORDS.--WSP 1182: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,171.76 ft above sea level. Apr. 14, 1911 to Sept. 30, 1912, nonrecording gage at site 2.5 mi downstream at different datum. Nonrecording gage at present site July 13 to Dec. 21, 1920, water-stage recorder at present site thereafter. Datum July 13, 1920, to Sept. 30, 1966, 75 ft lower than present datum, and datum Oct. 1, 1966, to Aug. 14, 1972, 15 ft lower than present datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,000 ft^3/s Dec. 23, 1933, computed on basis of slope between gages downstream; maximum gage height, 18.1 ft, Apr. 18, 1938, from floodmark, present datum; minimum discharge, 87 ft^3/s Nov. 29, 1979; minimum gage height, 3.43 ft, Dec. 5, 1928, present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,500 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	0745	*8,030	*9.74	No peaks greater than base discharge.			

Minimum daily, 240 ft^3/s Dec. 12, Feb. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1270	399	349	332	324	e300	1510	7690	3020	1110	596	332
2	911	390	e340	e320	318	353	1490	6250	2960	1050	547	329
3	562	372	332	e320	305	347	1360	5010	2720	1010	524	324
4	473	393	e300	332	306	e320	1210	4410	3110	980	511	319
5	437	479	e300	352	350	340	1110	4470	2720	963	536	318
6	428	425	307	370	375	e360	1100	4230	2610	961	510	320
7	424	378	299	e300	e340	e420	1100	3970	2430	938	486	319
8	413	374	295	e280	e260	e550	1080	4010	2310	889	472	318
9	399	399	317	e300	e240	722	997	4400	2270	854	461	316
10	389	e300	314	e320	e320	742	962	4640	2200	827	452	311
11	384	e260	e280	e340	e320	662	947	4630	2080	803	443	306
12	377	e280	e240	330	e300	597	905	4930	2220	788	434	302
13	393	e280	e280	334	e300	576	888	5930	2170	774	431	299
14	430	e260	e300	324	e280	657	842	6520	2020	749	426	295
15	420	e280	e320	e300	e280	630	819	7620	1940	727	418	292
16	390	e300	e280	e300	e280	612	868	7600	1830	796	410	291
17	377	e320	e320	e280	e280	590	1120	6530	1750	821	401	311
18	368	e300	e320	e280	299	567	1530	5670	1690	735	391	310
19	368	e280	e300	e300	305	1640	1880	4970	1630	703	383	302
20	376	e260	e280	e300	e300	2230	2000	4570	1560	684	379	292
21	665	e260	e280	e300	307	1570	1890	4210	1500	731	376	287
22	581	e280	e320	e300	332	1360	1850	4120	1450	685	374	284
23	456	e280	e340	e300	362	1350	1900	4410	1400	666	376	282
24	422	319	e340	e300	365	1490	2300	4990	1360	636	397	281
25	405	411	e340	e300	350	1850	3350	5460	1350	615	380	276
26	392	403	e340	e300	e320	2200	4680	5280	1280	594	366	283
27	386	392	359	e280	e300	1890	5830	4860	1270	579	356	289
28	385	e340	351	e280	e280	1660	7310	4640	1470	567	350	305
29	431	e320	e320	e280	---	1580	6330	4080	1250	592	352	312
30	450	354	326	e300	---	1520	5880	3540	1160	566	348	295
31	401	---	332	331	---	1440	---	3190	---	602	338	---
TOTAL	14563	10088	9721	9585	8698	31125	65038	156830	58730	23995	13224	9100
MEAN	470	336	314	309	311	1004	2168	5059	1958	774	427	303
MAX	1270	479	359	370	375	2230	7310	7690	3110	1110	596	332
MIN	368	260	240	280	240	300	819	3190	1160	566	338	276
AC-FT	28890	20010	19280	19010	17250	61740	129000	311100	116500	47590	26230	18050
CFSM	.46	.33	.30	.30	.30	.97	2.10	4.91	1.90	.75	.41	.29
IN.	.53	.36	.35	.35	.31	1.12	2.35	5.66	2.12	.87	.48	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2001, BY WATER YEAR (WY)

MEAN	555	1005	1360	1179	1539	2080	5288	8013	4576	1371	608	474
MAX	1621	6025	8887	5442	6933	6414	10530	14990	13040	3251	953	839
(WY)	1928	1928	1934	1934	1996	1934	1925	1997	1974	1950	1950	1968
MIN	273	258	288	204	239	539	2073	3285	1154	554	356	303
(WY)	1988	1930	1953	1929	1929	1964	1975	1941	1926	1926	1940	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1911 - 2001	
ANNUAL TOTAL	811175		410697			
ANNUAL MEAN	2216		1125		2338	
HIGHEST ANNUAL MEAN					3955	1974
LOWEST ANNUAL MEAN					1059	1944
HIGHEST DAILY MEAN	14600	Apr 14	7690	May 1	40000	Dec 23 1933
LOWEST DAILY MEAN	240	Dec 12	240	Dec 12	100	Nov 27 1952
ANNUAL SEVEN-DAY MINIMUM	280	Nov 10	280	Nov 10	154	Nov 23 1952
ANNUAL RUNOFF (AC-FT)	1609000		814600		1694000	
ANNUAL RUNOFF (CFSM)	2.15		1.09		2.27	
ANNUAL RUNOFF (INCHES)	29.30		14.83		30.84	
10 PERCENT EXCEEDS	6700		3250		6420	
50 PERCENT EXCEEDS	900		405		1000	
90 PERCENT EXCEEDS	324		290		374	

e Estimated

SPOKANE RIVER BASIN

12414500 ST. JOE RIVER AT CALDER, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1989 to September 1993, April to September 1996, April 1998 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July to September 1998, May to September 1999, July to September 2000, July to September 2001 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 24.5 °C Aug. 7, 2001.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 24.5 °C Aug. 7.

REMARKS.--Missing data due to lost data logger.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)
OCT										
17...	1405	377	58	7.4	24.0	9.7	--	--	--	--
NOV										
28...	1400	349	56	7.5	4.5	.5	--	--	--	--
JAN										
09...	1140	301	56	7.6	3.5	.5	--	--	--	--
FEB										
27...	1145	321	56	7.6	6.0	2.0	--	--	--	--
APR										
11...	0930	952	57	7.6	5.0	3.8	1.1	12.2	101	S2
MAY										
02...	0900	6450	38	7.5	5.5	4.0	3.0	10.9	89.1	S3
JUN										
26...	1145	1290	51	7.8	21.0	14.0	3.0	8.9	93.7	S2
JUL										
18...	1345	726	60	7.9	21.5	15.9	.7	7.9	86.7	S3
AUG										
07...	1330	483	65	7.8	29.5	21.7	1.5	7.6	93.4	S3
SEP										
18...	0830	317	70	6.8	10.0	14.8	2.2	11.3	121	S3

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)	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)
SEP													
18...	32.0	9.62	1.93	1.5	9.26	.79	39	0	32	1.2	.2	<.2	8.5

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT							
17...	.005	<.08	.008	<.007	E.002	--	--
NOV							
28...	.024	<.08	.005	E.005	<.004	--	--
JAN							
09...	<.002	E.07	.021	<.007	<.004	--	--
FEB							
27...	.003	<.08	.014	<.007	E.003	--	--
APR							
11...	<.002	<.08	<.005	<.007	.006	2	5.1
MAY							
02...	.007	.11	.024	E.004	.014	6	104
JUN							
26...	<.002	.08	.006	<.007	.008	3	10
JUL							
18...	.009	.09	.007	<.007	.004	2	3.9
AUG							
07...	.006	E.05	<.005	<.007	.004	1	1.3
SEP							
18...	.004	E.07	.009	<.007	E.004	2	1.7

< Less than
E Estimated value
S Most probable value

SPOKANE RIVER BASIN

12414500 ST. JOE AT CALDER, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, JULY TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	18.5	14.2	16.4	18.7	16.3	17.6
2	---	---	---	---	---	---	21.4	15.8	18.5	19.2	15.3	17.1
3	---	---	---	---	---	---	22.6	17.4	19.7	19.6	15.3	17.4
4	---	---	---	---	---	---	21.4	17.9	19.5	19.8	15.5	17.6
5	---	---	---	---	---	---	21.8	16.4	19.0	17.7	15.8	16.8
6	---	---	---	---	---	---	23.6	17.7	20.5	16.9	14.1	15.5
7	---	---	---	---	---	---	24.5	19.0	21.5	16.9	13.3	14.8
8	---	---	---	---	---	---	23.8	19.3	21.4	16.8	12.4	14.5
9	---	---	---	---	---	---	23.6	19.2	21.3	16.9	12.4	14.6
10	---	---	---	---	---	---	23.8	19.2	21.4	17.1	12.8	14.9
11	---	---	---	---	---	---	23.6	19.0	21.3	17.7	13.2	15.3
12	---	---	---	---	---	---	23.3	19.0	20.9	18.0	13.6	15.8
13	---	---	---	---	---	---	22.3	19.8	20.9	18.5	14.2	16.3
14	---	---	---	---	---	---	22.8	18.8	20.7	19.2	14.7	16.8
15	---	---	---	---	---	---	23.1	19.0	21.0	19.3	14.9	17.0
16	---	---	---	---	---	---	23.1	19.0	20.9	19.0	14.9	16.9
17	---	---	---	---	---	---	22.6	19.0	20.7	18.7	15.8	16.9
18	---	---	---	---	---	---	22.4	18.7	20.5	18.7	15.0	16.7
19	---	---	---	---	---	---	21.6	17.6	19.6	16.3	13.8	15.1
20	---	---	---	---	---	---	20.9	16.6	18.8	16.6	12.2	14.2
21	---	---	---	---	---	---	20.5	16.3	18.4	14.9	12.1	13.4
22	---	---	---	---	---	---	19.2	17.1	18.1	16.1	11.5	13.6
23	---	---	---	---	---	---	18.8	16.6	17.6	16.8	12.1	14.2
24	---	---	---	---	---	---	19.8	16.3	17.8	17.2	12.8	14.7
25	---	---	---	---	---	---	20.1	15.5	17.6	16.0	13.2	14.4
26	---	---	---	22.4	17.1	19.6	20.5	15.5	18.0	15.3	13.3	14.3
27	---	---	---	22.4	17.4	19.8	20.9	16.4	18.6	16.6	13.6	14.8
28	---	---	---	19.5	16.9	17.9	19.0	16.8	17.9	15.3	13.6	14.4
29	---	---	---	17.7	15.6	16.4	20.0	15.3	17.6	15.8	12.4	13.9
30	---	---	---	17.9	14.5	15.9	20.5	16.3	18.3	15.5	11.5	13.3
31	---	---	---	17.1	14.9	15.7	20.5	16.6	18.4	---	---	---
MONTH	---	---	---	---	---	---	24.5	14.2	19.4	19.8	11.5	15.4

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles.
MESH SIZE.--425 um.

AVERAGE DEPTH.--0.23 m.

AVERAGE PERCENT SHADING.--20.

AVERAGE VELOCITY.-- 0.61 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--4.

PERCENT FINES AVERAGE.--14.

BIOLOGICAL DATA, SEPTEMBER 2000
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE Sept. 15	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION
NON-INSECTS			
Uncinais uncinata		8	0.14
Acari		32	0.56
EPHEMEROPTERA			
Acentrella insignificans		40	0.70
Acentrella turbida		16	0.28
Baetis tricaudatus		32	0.56
Drunella doddsi		8	0.14
Drunella grandis		40	0.70
Ephemerella inermis/infrequens		1528	26.64
Serratella tibialis		32	0.56
Rhithrogena		312	5.44
Paraleptophlebia		232	4.04
PLECOPTERA			
Chloroperlidae		40	0.70
Sweltsa		16	0.28
Zapada cinctipes		8	0.14
Calineuria californica		8	0.14
Doroneuria		16	0.28
Hesperoperla pacifica		8	0.14
Perlodidae-early instar		16	0.28
Isoperla		32	0.56
Skwala		8	0.14
Pteronarcys		8	0.14
TRICHOPTERA			
Brachycentrus occidentalis		144	2.51
Glossosoma		256	4.46
Arctopsyche grandis		16	0.28
Hydropsyche		2304	40.17
COLEOPTERA			
Zaitzevia		120	2.09
DIPTERA			
Atherix		8	0.14
Simulium		48	0.84
Tanyderidae		8	0.14
Antocha		24	0.42
Hexatoma		8	0.14
Limnophila		16	0.28
CHIRONOMIDAE			
Chironomidae-pupae		88	1.53
Micropsectra		48	0.84
Orthocladius Complex		144	2.51
Pagastia		8	0.14
Potthastia Gaedii group		40	0.70
Tvetenia Discoloripes group		16	0.28

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 38
TOTAL INDIVIDUALS 5,736

SPOKANE RIVER BASIN

12414900 ST. MARIES RIVER NEAR SANTA, ID

LOCATION.--Lat 47°10'35", long 116°29'30", in NW¼SE¼NW¼ sec.8, T.44 N., R.1 W., Benewah County, Hydrologic Unit 17010304, on right bank, 450 ft upstream from bridge on State Highway 3, 0.3 mi upstream from Santa Creek, 2.7 mi northwest of Santa, and at mile 24.6

DRAINAGE AREA.--275 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR 1974: 1968-70 (M). WDR 1982: 1981.

GAGE.--Water-stage recorder. Datum of gage is 2,574.56 ft above sea level.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,300 ft^3/s Feb. 9, 1996, on basis of indirect discharge measurement, gage height, 13.75 ft; minimum, 15 ft^3/s Nov. 11, 1978, gage height, 3.32 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 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	0200	*2,020	*7.35	No other peak greater than base discharge.			

Minimum daily, 30 ft^3/s Sept. 15, 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	67	e85	e55	e55	e70	524	1660	183	95	56	33
2	152	66	e75	e55	e55	e80	469	1100	175	89	52	33
3	83	63	e70	e55	e60	e90	400	805	169	85	49	33
4	70	69	e65	e60	e70	e110	332	668	253	82	48	33
5	65	98	e65	e80	e100	145	286	613	241	81	49	32
6	62	79	e60	e90	e140	195	282	512	219	86	48	33
7	60	66	e60	e70	e110	247	295	447	189	83	46	34
8	59	72	e55	e60	e90	275	301	418	172	77	44	33
9	58	74	e50	e65	e80	334	281	410	164	72	43	33
10	58	e50	e46	e60	e70	323	251	385	155	70	42	32
11	58	e44	e42	e60	e60	278	290	365	152	69	41	31
12	57	e42	e36	e60	e55	232	303	361	169	67	41	31
13	62	e42	e42	e60	e50	247	287	368	170	65	41	31
14	77	e42	e46	e55	e46	309	251	400	160	63	41	31
15	68	e44	e50	e50	e44	236	231	721	149	62	40	30
16	62	e48	e50	e44	e42	220	241	637	139	72	38	30
17	60	e48	e55	e44	e42	198	328	528	131	88	37	34
18	59	e44	e55	e48	e44	210	420	450	127	71	36	35
19	58	e40	e50	e50	e50	922	494	394	121	66	36	32
20	60	e42	e44	e50	e55	775	463	351	117	63	36	31
21	146	e44	e44	e55	e70	493	408	312	112	67	36	32
22	106	e44	e55	e55	e90	404	379	290	107	66	36	31
23	76	e44	e70	e60	e120	389	408	275	103	63	36	31
24	69	e46	e80	e60	e120	427	481	261	101	60	39	31
25	66	e50	e80	e65	e110	551	560	260	101	57	40	31
26	64	e55	e70	e60	e90	600	648	256	99	55	37	32
27	62	e60	e65	e55	e70	481	711	246	108	54	36	35
28	64	e70	e60	e55	e65	471	911	249	160	53	35	40
29	76	e75	e55	e50	---	473	843	225	120	55	35	43
30	75	e85	e55	e55	---	423	1040	206	101	55	35	39
31	66	---	e55	e55	---	399	---	193	---	56	34	---
TOTAL	2342	1713	1790	1796	2053	10607	13118	14366	4467	2147	1263	990
MEAN	75.5	57.1	57.7	57.9	73.3	342	437	463	149	69.3	40.7	33.0
MAX	184	98	85	90	140	922	1040	1660	253	95	56	43
MIN	57	40	36	44	42	70	231	193	99	53	34	30
AC-FT	4650	3400	3550	3560	4070	21040	26020	28490	8860	4260	2510	1960
CFSM	.27	.21	.21	.21	.27	1.24	1.59	1.69	.54	.25	.15	.12
IN.	.32	.23	.24	.24	.28	1.43	1.77	1.94	.60	.29	.17	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2001, BY WATER YEAR (WY)

MEAN	73.0	139	223	343	529	694	881	749	356	126	67.9	62.3
MAX	132	422	732	1637	1936	2166	1976	1671	1012	230	103	91.2
(WY)	1969	1996	1996	1974	1996	1972	1997	1997	1974	1997	1975	1997
MIN	36.3	45.7	54.8	47.6	73.3	153	282	186	84.3	54.4	30.6	32.4
(WY)	1988	1988	1979	1979	2001	1977	1992	1992	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1966 - 2001	
ANNUAL TOTAL	131620		56652			
ANNUAL MEAN	360		155		352	
HIGHEST ANNUAL MEAN					711	1974
LOWEST ANNUAL MEAN					134	1977
HIGHEST DAILY MEAN	3040	Apr 15	1660	May 1	10800	Feb 9 1996
LOWEST DAILY MEAN	36	Dec 12	30	Sep 15	25	Nov 29 1979
ANNUAL SEVEN-DAY MINIMUM	43	Nov 18	31	Sep 10	26	Aug 27 1994
ANNUAL RUNOFF (AC-FT)	261100		112400		255100	
ANNUAL RUNOFF (CFSM)	1.31		.56		1.28	
ANNUAL RUNOFF (INCHES)	17.80		7.66		17.40	
10 PERCENT EXCEEDS	909		408		915	
50 PERCENT EXCEEDS	136		67		152	
90 PERCENT EXCEEDS	50		36		53	

e Estimated

SPOKANE RIVER BASIN

12414900 ST MARIES RIVER NEAR SANTA, ID--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--October 1972 to October 1981, November 1990 to September 1994, October 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
OCT											
17...	1120	60	52	7.4	21.0	9.1	.004	E.05	.010	E.006	.016
NOV											
28...	1100	95	54	7.3	0	0	<.002	E.06	<.005	<.007	<.004
JAN											
09...	0815	147	57	7.3	-1.0	.1	<.002	.12	.007	E.004	.016
FEB											
27...	0935	188	59	7.4	-3.0	0	.012	.14	.027	.009	.032
APR											
11...	1410	287	40	7.2	8.0	4.0	<.002	.18	<.005	E.005	.031
MAY											
02...	1215	1080	32	6.9	10.0	4.8	.005	.23	.024	.007	.050
JUN											
28...	0925	172	48	7.6	17.5	14.5	<.002	.15	.006	E.004	.022
AUG											
07...	1630	46	56	8.8	30.0	26.5	<.002	.22	.006	<.007	.020
SEP											
18...	1405	36	63	8.0	23.5	19.0	.004	.14	.008	E.004	.015

E Estimated value

SPOKANE RIVER BASIN

12415500 COEUR D'ALENE LAKE AT COEUR D'ALENE, ID

LOCATION.--Lat 47°39'55", long 116°46'13", in NE¼NW¼SE¼ sec.24, T.50 N., R.4 W., Kootenai County, Hydrologic Unit 17010303, 500 ft southwest of south end of Eleventh Street, Coeur d'Alene, and 113.1 mi upstream from mouth of Spokane River.

DRAINAGE AREA.--3,700 mi^2, approximately.

PERIOD OF RECORD.--April 1903 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,100.00 ft, referred to originally accepted elevation of 2,157.40 ft of U.S. Geological Survey bench mark in southeast corner of Idaho First National Bank Building (see WSP 882). Gage heights are reduced to that datum. Datum of gage based on NGVD of 1929, supplementary adjustment of 1947, is 2,097.00 ft. Apr. 26, 1903, to Feb. 14, 1905, non-recording gage at mouth of St. Joe River at datum about 18.7 ft higher than gage datum. Feb. 15, 1905, to Mar. 23, 1921, non-recording gage, and Mar. 24, 1921, to Dec. 22, 1930, water-stage recorder at Johnson Wharf 800 ft southeast of railroad station and 1 mi northwest of present site at datum 19.75 ft higher than gage datum. Dec. 23, 1930, to Feb. 9, 1931, non-recording gage at present site and datum.

REMARKS.--Station equipment includes telemetry. Avista Utilities stores water in Coeur d'Alene Lake by regulation at Post Falls Dam for power generation at Post Falls and other plants on Spokane River. Storage is within natural range of lake stage. Contents given herein are those above elevation 2,120.0 ft. Capacity of lake between elevations 2,120 ft and 2,140 ft, 889,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 834,900 acre-ft Dec. 25, 1933, elevation, 2,139.05 ft; minimum, 2,700 acre-ft below zero of contents table Oct. 10-12, 1904, Sept. 24, 25, 1905, Oct. 14 to Nov. 3, 1906, Feb. 9, 10, 1977, elevation, 2,119.9 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum contents known prior to 1903, 753,300 acre-ft May 31, 1894, elevation, 2,137.6 ft, from high-water marks.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 243,800 acre-ft May 16, 17, elevation, 2,128.11 ft; minimum, 21,400 acre-ft Jan. 9, elevation, 2,120.80 ft.

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

20.8	21,400	26.0	162,900
21.0	26,800	28.0	238,500
22.0	53,700	30.0	339,700
24.0	107,900		

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.07	24.63	22.56	21.02	21.07	20.98	24.50	27.85	27.84	27.94	27.94	27.88
2	27.03	24.54	22.51	20.98	21.09	21.00	24.60	28.08	27.83	27.93	27.93	27.87
3	26.97	24.45	22.44	20.97	21.08	20.98	24.64	28.05	27.83	27.91	27.92	27.86
4	26.90	24.40	22.38	20.93	21.14	20.97	24.66	27.93	27.87	27.91	27.93	27.86
5	26.83	24.32	22.34	20.93	21.16	20.97	24.63	27.72	27.89	27.92	27.91	27.86
6	26.75	24.23	22.34	20.89	21.15	20.98	24.63	27.56	27.88	27.91	27.93	27.86
7	26.69	24.14	22.34	20.86	21.17	21.02	24.64	27.48	27.85	27.91	27.93	27.82
8	26.62	24.10	22.32	20.83	21.14	21.09	24.62	27.42	27.81	27.92	27.91	27.81
9	26.52	24.00	22.26	20.81	21.13	21.18	24.60	27.45	27.82	27.93	27.91	27.81
10	26.45	23.90	22.20	20.82	21.11	21.29	24.55	27.57	27.81	27.93	27.94	27.78
11	26.35	23.81	22.12	20.84	21.10	21.40	24.53	27.67	27.82	27.92	27.93	27.73
12	26.26	23.70	22.04	20.86	21.09	21.47	24.51	27.76	27.82	27.93	27.94	27.67
13	26.21	23.60	21.97	20.90	21.07	21.61	24.48	27.87	27.82	27.92	27.92	27.65
14	26.11	23.50	21.94	20.92	21.04	21.69	24.41	28.01	27.81	27.93	27.93	27.61
15	26.02	23.41	21.87	20.94	21.01	21.78	24.34	28.00	27.82	27.93	27.95	27.57
16	25.93	23.34	21.89	20.93	21.01	21.87	24.28	28.09	27.81	27.93	27.95	27.54
17	25.86	23.27	21.78	20.94	20.98	21.92	24.23	28.09	27.81	27.94	27.95	27.50
18	25.78	23.22	21.71	20.94	20.99	22.01	24.26	27.98	27.79	27.94	27.96	27.47
19	25.70	23.14	21.66	20.98	20.98	22.21	24.34	27.85	27.78	27.93	27.92	27.42
20	25.65	23.06	21.58	20.98	20.98	22.58	24.43	27.81	27.79	27.94	27.91	27.37
21	25.57	23.00	21.53	21.02	20.98	22.82	24.52	27.78	27.78	27.95	27.90	27.33
22	25.49	22.94	21.48	21.02	20.98	22.97	24.59	27.76	27.79	27.94	27.90	27.28
23	25.40	22.89	21.44	21.03	21.00	23.09	24.67	27.77	27.79	27.96	27.91	27.24
24	25.32	22.84	21.41	21.06	21.02	23.22	24.78	27.82	27.79	27.97	27.90	27.19
25	25.22	22.80	21.36	21.06	21.03	23.45	24.99	27.88	27.77	27.97	27.90	27.19
26	25.14	22.77	21.30	21.08	21.03	23.69	25.35	27.92	27.78	27.97	27.89	27.16
27	25.05	22.75	21.24	21.09	21.02	23.91	25.86	28.00	27.88	27.98	27.90	27.09
28	24.97	22.68	21.18	21.08	20.99	24.06	26.54	27.92	27.92	27.99	27.91	27.07
29	24.88	22.66	21.14	21.09	---	24.20	27.00	27.86	27.92	27.96	27.89	27.02
30	24.82	22.61	21.08	21.08	---	24.30	27.39	27.81	27.93	27.95	27.90	26.97
31	24.73	---	21.05	21.06	---	24.42	---	27.81	---	27.95	27.90	---
MEAN	25.94	23.49	21.82	20.97	21.05	22.23	24.85	27.82	27.83	27.94	27.92	27.52
MAX	27.07	24.63	22.56	21.09	21.17	24.42	27.39	28.09	27.93	27.99	27.96	27.88
MIN	24.73	22.61	21.05	20.81	20.98	20.97	24.23	27.42	27.77	27.91	27.89	26.97
†	127800	70200	28200	28400	26500	119400	210700	229500	235100	236100	233700	194200
‡	-69000	-57600	-42000	200	-1900	92900	91300	18800	5600	1000	-2400	-39500

CAL YR 2000 MEAN 26.09 MAX 31.94 MIN 21.05 ‡ -84100
WTR YR 2001 MEAN 24.97 MAX 28.09 MIN 20.81 ‡ -2600

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

SPOKANE RIVER BASIN

12417000 HAYDEN LAKE AT HAYDEN LAKE, ID

LOCATION.--Lat 47°44'58", long 116°44'21", in SE¼NW¼SW¼ sec.20, T.51 N., R.3 W., Kootenai County, Hydrologic Unit 17010305, at Tobler Marina, 2.3 mi east-southeast of Hayden Lake Post Office.

DRAINAGE AREA.--62.3 mi^2.

PERIOD OF RECORD.--May 1920 to current year.

REVISED RECORDS.--WDR ID-1981-2: 1980 gage heights.

GAGE.--Nonrecording gage. Datum of gage is 2,200.21 ft above sea level. Prior to Oct. 1, 1925, at datum 30.35 ft higher. Oct. 1, 1925, to Mar. 26, 1931, at datum 21.60 ft higher. Mar. 26, 1931, to Apr. 8, 1981, at Avondale pumping plant in Bozanta Tavern Bay across lake 1.5 mi northwest of present site.

REMARKS.--Water is pumped from lake for irrigation and domestic supply. Lake has no natural surface outlet. Some surface flow leaves the lake during high stages most years through a controlled outlet in the dike at the southeast corner. Due to the permeability of the lakebed and outlet area, the excess flow infiltrates to the Rathdrum Prairie aquifer.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 42.46 ft, Apr. 22, 1956; minimum observed, 19.38 ft, Dec. 16, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 35.80 ft, May 23; minimum observed, 34.00 ft, Aug. 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	34.28	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	35.52	---	---	---
22	---	---	34.88	---	---	---	---	---	---	---	34.00	---
23	35.52	---	---	---	---	---	---	35.80	---	34.77	---	---
24	---	---	---	34.60	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	34.80	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	34.34	---	---	---	---	---	---	---
28	---	---	---	---	---	34.47	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

SPOKANE RIVER BASIN

12419000 SPOKANE RIVER NEAR POST FALLS, ID

LOCATION.--Lat 47°42'11", long 116°58'37", in SW¼SW¼SW¼ sec.4, T.50 N., R.5 W., Kootenai County, Hydrologic Unit 17010305, on right bank, 1 mi downstream from powerplant of Avista Utilities, 1.5 mi southwest of Post Falls, and at mile 100.7.

DRAINAGE AREA.--3,840 mi^2, approximately, of which about 122 mi^2 in the vicinity of Hayden Lake is noncontributing to this station.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1912 to current year (prior to January 1913, monthly discharge only, published in WSP 870 and 1736). Prior to October 1949, published as "at Post Falls."

GAGE.--Water-stage recorder. Datum of gage is 2,050 ft, referred to originally accepted elevation of 2,157.40 ft for the U.S. Geological Survey bench mark in southeast corner of Idaho First National Bank Building (see WSP 882). Gage datum is 2,047.00 ft above sea level. Jan. 1, 1913, to Nov. 21, 1920, nonrecording gage, and Nov. 22, 1920, to Sept. 15, 1934, recording gage 0.6 mi upstream. From Sept. 16, 1934, to Nov. 15, 1949, recording gage 0.8 mi upstream. From Nov. 16, 1949, at present site. Datum of all gages prior to Sept. 30, 1964, 50 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by dam at Post Falls and affected by storage in Coeur d'Alene Lake (sta 12415500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,100 ft^3/s, when recorder was not operating, Dec. 25, 1933, (determined from unpublished records collected by Washington Water Power Co. for station at Liberty Bridge); minimum, 65 ft^3/s July 25, 30, 1973; minimum gage height, 4.68 ft, July 20, 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,100 ft^3/s May 2, gage height, 17.12 ft; minimum daily, 224 ft^3/s Aug. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2030	2520	1830	1370	912	1350	3690	12300	5140	1870	766	252
2	2030	2510	1830	1370	908	1410	4070	15300	4770	1870	740	253
3	2030	2500	1830	1370	904	1420	4420	16400	4800	1930	638	253
4	2030	2510	1830	1360	902	1420	4540	16200	4770	1700	592	256
5	2030	2510	1320	1360	1010	1410	4590	15800	4790	1540	591	236
6	2020	2510	735	1360	1140	1460	4570	14300	4940	1540	538	243
7	2030	2510	713	1360	1140	1480	4600	12000	4990	1390	511	265
8	2270	2510	1290	1360	1180	1470	4590	11100	4620	1160	504	291
9	2470	2510	1800	1020	1240	1470	4580	9130	4340	1060	391	285
10	2480	2540	1800	700	1250	1490	4560	7800	4100	1060	336	659
11	2480	2520	1800	729	1250	1500	4550	7840	3820	1130	335	1040
12	2470	2510	1790	719	1250	1500	4560	8470	3820	1110	334	1040
13	2460	2500	1790	708	1210	1750	4560	8970	3810	968	334	1020
14	2460	2480	1790	697	1210	1910	4580	12500	3720	911	297	1010
15	2460	2020	1790	699	1140	1910	4570	15300	3420	912	257	1050
16	2450	2000	1790	695	1090	1890	4540	16000	3180	911	253	1050
17	2440	1940	1790	694	1080	1900	4550	15900	3090	910	278	1030
18	2470	1830	1780	693	1080	1910	4540	15700	3090	910	293	1050
19	2500	1830	1780	693	1070	2060	4520	13400	2850	842	293	1050
20	2520	1800	1780	691	1070	2160	4550	11400	2710	735	284	1050
21	2520	1780	1780	690	1070	2550	4580	9580	2660	695	224	1050
22	2530	1760	1770	688	1070	2840	4590	8910	2510	694	259	1070
23	2520	1730	1770	687	1070	2840	4590	8290	2240	646	257	1070
24	2520	1750	1760	687	1070	2840	4590	8190	2080	649	255	1070
25	2520	1800	1770	688	1070	2860	4600	8540	2040	663	254	1060
26	2520	1790	1770	687	1230	3330	4600	8560	1960	662	254	1060
27	2530	1790	1760	688	1320	3630	4630	8780	1910	661	254	1060
28	2520	1800	1760	688	1320	3640	6330	9020	1900	724	254	1060
29	2510	1820	1760	863	---	3650	9510	8420	1900	812	255	1060
30	2520	1830	1530	1040	---	3660	10400	7090	1890	793	255	1060
31	2530	---	1370	953	---	3670	---	5710	---	765	255	---
TOTAL	73870	64410	51658	28007	31256	68380	148150	346900	101860	32223	11341	24003
MEAN	2383	2147	1666	903	1116	2206	4938	11190	3395	1039	366	800
MAX	2530	2540	1830	1370	1320	3670	10400	16400	5140	1930	766	1070
MIN	2020	1730	713	687	902	1350	3690	5710	1890	646	224	236
AC-FT	146500	127800	102500	55550	62000	135600	293900	688100	202000	63910	22490	47610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2001, BY WATER YEAR (WY)

MEAN	1742	2884	4899	5193	6249	8184	14360	17510	9593	2094	938	1178
MAX	5460	13130	23660	24930	23280	25440	26050	34930	26710	10720	2133	1849
(WY)	1928	1928	1934	1934	1996	1972	1943	1997	1974	1916	1917	1985
MIN	782	627	784	903	1025	1751	3558	5141	1584	851	185	188
(WY)	1964	1936	1936	2001	1929	1929	1977	1992	1926	1994	1958	1949

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1913 - 2001	
ANNUAL TOTAL	2314240		982058			
ANNUAL MEAN	6323		2691		6206	
HIGHEST ANNUAL MEAN					11600	1974
LOWEST ANNUAL MEAN					2143	1977
HIGHEST DAILY MEAN	28700	Apr 22	16400	May 3	49800	Dec 25 1933
LOWEST DAILY MEAN	258	Aug 31	224	Aug 21	67	Jul 24 1973
ANNUAL SEVEN-DAY MINIMUM	268	Aug 26	250	Aug 31	108	Aug 10 1966
ANNUAL RUNOFF (AC-FT)	4590000		1948000		4496000	
10 PERCENT EXCEEDS	15500		4960		17200	
50 PERCENT EXCEEDS	3500		1780		2990	
90 PERCENT EXCEEDS	748		592		902	

SPOKANE RIVER BASIN

12419000 SPOKANE RIVER NEAR POST FALLS, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-1981, July 1989 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to September 1998, May to September 1999, May to September 20001 (discontinued).
SPECIFIC CONDUCTANCE: February 1999 to September 2001 (discontinued).

INSTRUMENTATION.--Water-quality data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 27.1 °C July 29, 1998, minimum, 1.4 °C Feb. 17, 18, 2001.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 57 microsiemens/cm Aug 30 to Sept. 4, 2000; minimum recorded daily mean, 42 microsiemens/cm May 6-8, June 14-15. 2000.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 25.9 °C Aug. 15, minimum 1.4 °C Feb. 17-18.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 68 microsiemens/cm Sept. 5; minimum recorded daily mean, 50 microsiemens/cm Oct. 1-21, 2000, June 6-8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)	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													
19...	0830	2540	46	7.0	8.0	13.0	--	--	--	--	18.7	5.05	1.49
NOV													
08...	1400	2520	48	7.2	0	8.4	--	10.7	99.8	--	19.5	5.31	1.52
27...	0930	1790	51	7.1	1.5	6.0	--	--	--	--	20.5	5.53	1.62
DEC													
19...	1000	--	--	--	--	--	--	--	--	--	--	--	--
21...	1400	1770	52	7.0	-3.0	2.4	--	--	--	--	20.4	5.51	1.61
JAN													
08...	0950	1370	52	7.0	0	3.0	--	--	--	--	21.6	5.83	1.70
22...	1330	688	56	7.0	5.0	2.1	--	12.9	100	--	21.1	5.64	1.71
23...	0805	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
26...	0810	1150	54	7.2	-5.5	3.2	--	--	--	--	20.2	5.43	1.61
MAR													
13...	1415	1910	52	7.5	11.0	4.6	--	12.1	102	--	20.4	5.41	1.67
APR													
09...	0930	4580	52	7.2	4.5	4.2	1.5	11.7	96.7	S2	21.1	5.69	1.67
MAY													
03...	0845	16500	58	7.4	11.0	7.1	4.0	11.0	96.8	S7	22.9	6.12	1.85
07...	1345	11700	57	7.6	17.5	8.4	--	11.8	108	--	22.4	5.99	1.81
JUN													
11...	1230	3790	53	7.6	19.0	15.4	--	9.1	99.2	--	20.2	5.39	1.64
25...	0900	2020	55	7.3	10.5	18.4	4.9	8.6	98.5	S16	20.4	5.42	1.67
JUL													
23...	1430	627	59	7.8	26.5	22.5	1.9	7.3	91.0	38	--	--	--
AUG													
06...	0920	514	62	7.4	25.0	22.2	2.3	6.3	77.5	S21	22.0	5.85	1.79
13...	1630	335	--	--	--	--	--	--	--	--	--	--	--
14...	0815	327	--	--	--	--	--	--	--	--	--	--	--
SEP													
17...	1045	1040	60	7.2	21.0	20.3	3.2	10.0	119	S18	23.6	6.39	1.85

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
OCT													
19...	--	--	--	--	--	--	--	--	.003	--	E.04	.064	--
NOV													
08...	1.6	.68	24	20	.9	3.8	<.2	8.0	<.002	E.07	.10	.045	.001
27...	--	--	--	--	--	--	--	--	<.002	--	.12	.005	--
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	1.9	.73	24	20	1.1	4.2	<.2	9.4	.032	E.10	.10	.125	.003
JAN													
08...	--	--	--	--	--	--	--	--	.018	--	.15	.164	--
22...	2.5	.86	23	19	1.6	4.4	<.2	9.2	.052	.19	.15	.236	.006
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
26...	--	--	--	--	--	--	--	--	.031	--	.11	.138	--
MAR													
13...	2.0	.78	21	17	1.2	4.7	<.2	8.9	.020	.10	.14	.103	.002
APR													
09...	1.7	.72	23	19	.9	4.9	<.2	8.9	.008	<.10	.12	.051	<.001
MAY													
03...	--	--	--	--	--	--	--	--	.006	--	.23	.025	--
07...	1.7	.80	24	20	.9	5.5	<.2	8.6	.005	<.10	.35	.027	.001
JUN													
11...	1.7	.63	22	18	1.0	4.4	<.2	8.6	.005	E.07	.14	.021	<.001
25...	--	--	--	--	--	--	--	--	<.002	--	.17	.057	--
JUL													
23...	--	--	--	--	--	--	--	--	.006	--	.23	.144	--
AUG													
06...	--	--	--	--	--	--	--	--	<.002	--	.14	.178	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
17...	2.3	.73	--	--	1.3	4.8	<.2	7.5	.006	--	.11	.088	--

E Estimated value

12419000 SPOKANE RIVER NEAR POST FALLS, ID--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT													
19...	--	<.007	.007	--	--	.13	.16	--	--	<10	20	.13	1
NOV													
08...	.007	E.004	.011	.4	<2	.14	.18	.5	.6	<10	--	.13	<1
27...	--	<.007	<.004	--	--	.18	.21	--	--	<10	E10	.14	<1
DEC													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	.018	.014	.022	.5	<3	.20	.23	.6	.7	<10	--	.17	<1
JAN													
08...	--	.017	.032	--	--	.20	.22	--	--	<10	20	.18	<1
22...	.036	.031	.044	.5	<2	.19	.22	.9	.7	<10	--	.15	<1
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
26...	--	.016	.027	--	--	.20	.22	--	--	<10	20	.16	<1
MAR													
13...	.016	.013	.025	.5	<2	.18	.23	.7	.7	<10	--	.16	<1
APR													
09...	<.006	<.007	.006	.4	<2	.18	.21	.6	.7	<10	--	E.04	<1
MAY													
03...	--	<.007	.022	--	--	.24	.45	--	--	10	130	.32	5
07...	E.003	<.007	.007	.4	<2	.22	.29	.6	E.6	20	--	.41	2
JUN													
11...	<.006	<.007	.011	.4	<2	.16	.22	.6	.7	<10	--	.17	1
25...	--	<.007	.011	--	--	.15	.22	--	--	<10	30	.19	1
JUL													
23...	--	.008	.017	--	--	--	--	--	--	--	--	--	--
AUG													
06...	--	<.007	.014	--	--	.11	.15	--	--	<10	30	.39	1
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
17...	--	<.007	.006	--	--	.10	.12	--	--	<10	30	--	1

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT							
19...	1.4	3	44	42	--	--	--
NOV							
08...	<3.2	--	45	46	67	1	6.8
27...	1.5	3	59	53	--	--	--
DEC							
19...	--	--	--	--	--	--	--
21...	E1.7	--	66	68	67	1	4.8
JAN							
08...	1.7	3	65	65	--	--	--
22...	E2.0	--	66	60	75	1	1.9
23...	--	--	--	--	--	--	--
FEB							
26...	2.0	3	62	66	--	--	--
MAR							
13...	E2.1	--	65	66	71	1	5.2
APR							
09...	E2.5	--	61	65	80	1	12
MAY							
03...	2.6	15	63	85	--	6	267
07...	E2.3	--	60	71	89	1	32
JUN							
11...	<3.0	--	46	51	86	1	10
25...	.6	7	48	58	--	2	11
JUL							
23...	--	--	--	--	--	3	5.1
AUG							
06...	1.0	5	31	37	--	1	1.4
13...	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--
SEP							
17...	1.2	4	33	33	--	1	2.8

< Less than
E Estimated value
S Most probable value

SPOKANE RIVER BASIN

12419000 SPOKANE RIVER NEAR POST FALLS, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	15.4	15.0	15.2	10.6	10.2	10.5	5.5	5.2	5.3	3.5	3.3	3.4
2	15.1	14.7	14.9	10.3	10.2	10.2	5.6	5.5	5.6	3.6	3.4	3.5
3	14.9	14.4	14.7	10.3	10.1	10.2	5.6	5.4	5.5	3.6	3.5	3.6
4	14.4	13.9	14.2	10.2	9.7	9.9	5.4	5.3	5.4	3.7	3.5	3.6
5	14.0	13.6	13.8	9.7	9.6	9.7	5.3	5.1	5.2	3.9	3.6	3.7
6	13.6	13.2	13.4	9.7	9.5	9.6	5.1	4.9	4.9	3.8	3.6	3.7
7	13.3	12.9	13.1	9.5	9.2	9.3	4.9	4.6	4.8	3.6	2.9	3.3
8	13.4	12.9	13.1	9.2	8.8	8.9	4.6	4.5	4.6	2.9	2.8	2.8
9	13.4	13.0	13.2	8.8	8.0	8.4	4.5	4.2	4.4	3.1	2.8	2.9
10	13.6	13.3	13.4	8.0	7.7	7.8	4.3	4.1	4.2	3.1	2.7	2.9
11	13.6	13.3	13.5	7.7	7.4	7.5	4.1	3.6	3.9	3.1	2.9	3.0
12	13.6	13.5	13.5	7.4	7.2	7.4	3.6	3.1	3.3	3.2	3.0	3.1
13	13.5	13.3	13.4	7.4	7.1	7.2	3.1	2.8	2.9	3.2	3.0	3.1
14	13.3	12.9	13.2	7.1	6.7	6.9	3.0	2.6	2.9	3.2	3.0	3.1
15	13.0	12.7	12.8	6.7	6.6	6.6	2.8	2.4	2.6	3.1	2.8	2.9
16	12.8	12.7	12.7	6.6	6.5	6.6	2.4	1.9	2.1	2.8	2.6	2.7
17	13.1	12.7	12.9	6.5	6.3	6.4	2.2	1.8	2.0	2.7	2.4	2.5
18	13.2	12.9	13.0	6.3	6.1	6.2	3.1	2.2	2.7	2.5	2.3	2.4
19	13.2	12.9	13.1	6.2	5.9	6.0	3.3	2.9	3.2	2.3	2.1	2.2
20	13.0	12.7	12.9	5.9	5.6	5.8	3.0	2.9	2.9	2.3	1.9	2.1
21	12.7	12.3	12.5	5.7	5.4	5.6	2.9	2.6	2.7	2.2	2.0	2.1
22	12.3	11.8	12.1	5.6	5.4	5.5	2.8	2.6	2.7	2.5	2.1	2.2
23	11.8	11.6	11.7	5.5	5.3	5.4	3.1	2.8	2.9	2.4	1.9	2.1
24	11.8	11.5	11.6	5.5	5.4	5.5	3.4	3.0	3.2	2.4	2.0	2.2
25	11.7	11.5	11.6	5.8	5.5	5.6	3.6	3.3	3.5	2.6	2.3	2.4
26	11.6	11.5	11.5	5.9	5.5	5.8	3.9	3.6	3.7	2.8	2.4	2.6
27	11.6	11.4	11.5	6.1	5.8	6.0	4.0	3.8	3.9	2.7	2.4	2.6
28	11.5	11.2	11.4	5.8	5.4	5.7	3.8	3.6	3.7	2.8	2.6	2.7
29	11.2	10.8	11.0	5.4	5.0	5.2	3.6	3.4	3.5	2.8	2.5	2.6
30	11.0	10.8	10.8	5.2	5.1	5.2	3.4	3.2	3.3	2.6	2.3	2.5
31	10.8	10.6	10.8	---	---	---	3.4	3.2	3.3	2.6	2.4	2.5
MONTH	15.4	10.6	12.8	10.6	5.0	7.2	5.6	1.8	3.7	3.9	1.9	2.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	2.6	2.2	2.4	3.3	2.9	3.1	4.7	4.2	4.4	7.3	6.5	6.7
2	2.8	2.5	2.6	3.6	3.0	3.3	4.8	4.5	4.7	7.5	6.2	6.8
3	3.1	2.6	2.8	3.8	3.2	3.5	4.6	4.2	4.4	8.1	6.8	7.4
4	2.9	2.5	2.8	4.1	3.5	3.8	4.6	4.1	4.3	8.7	7.4	8.0
5	3.0	2.7	2.8	4.2	3.7	4.0	5.0	4.6	4.9	8.4	7.6	8.0
6	2.8	2.5	2.7	4.7	4.0	4.3	5.2	5.0	5.1	8.4	7.1	7.8
7	2.7	2.2	2.4	4.8	4.2	4.5	5.1	4.9	5.0	8.9	7.7	8.3
8	2.6	2.1	2.3	4.7	4.5	4.6	4.9	4.4	4.7	9.6	8.5	9.1
9	2.1	1.7	1.9	4.6	4.4	4.5	4.5	4.3	4.4	9.6	8.9	9.3
10	1.9	1.5	1.7	4.8	4.4	4.5	4.8	4.4	4.6	9.9	9.5	9.6
11	2.2	1.6	1.9	4.5	4.2	4.4	4.8	4.6	4.7	10.3	9.7	9.9
12	2.5	1.9	2.2	4.5	4.1	4.3	4.8	4.5	4.7	10.5	10.1	10.2
13	3.0	2.3	2.6	4.8	4.3	4.5	4.9	4.8	4.9	11.5	10.5	11.0
14	2.8	2.3	2.5	5.0	4.4	4.7	5.1	4.7	4.9	11.5	10.2	10.9
15	2.6	2.1	2.4	4.7	4.3	4.5	5.6	5.0	5.3	10.5	9.8	10.2
16	2.1	1.7	1.8	4.4	4.0	4.2	5.9	5.6	5.8	10.3	9.5	9.9
17	1.9	1.4	1.7	4.3	4.0	4.1	6.4	5.9	6.2	9.9	9.0	9.5
18	1.8	1.4	1.6	4.2	3.9	4.1	6.6	5.7	6.2	10.2	9.3	9.8
19	2.6	1.8	2.2	4.9	4.2	4.6	6.1	5.6	5.8	10.4	9.5	9.9
20	2.9	2.2	2.6	5.4	4.6	5.0	6.3	5.9	6.1	10.6	9.5	10.0
21	3.2	2.6	2.9	5.3	4.5	4.9	6.6	5.8	6.2	11.5	10.2	10.7
22	3.4	3.0	3.2	5.4	4.6	4.9	6.8	6.6	6.7	12.4	11.5	11.9
23	3.5	3.2	3.4	5.4	4.6	5.0	7.2	6.7	7.0	13.3	12.4	12.7
24	3.8	3.2	3.5	5.6	4.8	5.2	7.0	6.4	6.6	14.5	13.3	13.8
25	3.9	3.3	3.5	5.4	4.9	5.2	8.1	7.0	7.7	15.1	14.4	14.7
26	3.8	3.1	3.5	5.1	4.8	4.9	8.6	8.0	8.4	15.6	14.6	14.9
27	3.8	3.2	3.4	5.1	4.7	4.9	8.8	8.3	8.6	16.4	15.4	15.7
28	3.6	2.9	3.2	4.8	4.6	4.7	9.0	8.4	8.8	16.5	16.2	16.3
29	---	---	---	4.8	4.5	4.7	8.7	7.5	7.8	16.2	15.1	15.7
30	---	---	---	5.1	4.6	4.8	7.7	7.3	7.5	15.1	14.6	14.7
31	---	---	---	5.0	4.4	4.8	---	---	---	15.4	14.6	15.0
MONTH	3.9	1.4	2.6	5.6	2.9	4.5	9.0	4.1	5.9	16.5	6.2	10.9

12419000 SPOKANE RIVER NEAR POST FALLS, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	16.6	15.4	16.0	20.0	19.1	19.6	22.1	21.0	21.5	22.1	21.1	21.5
2	16.7	16.1	16.4	20.5	19.5	20.1	22.3	21.0	21.7	22.6	20.7	21.5
3	16.3	15.1	15.7	21.4	20.1	20.7	22.6	21.3	21.7	22.7	20.6	21.5
4	15.1	14.2	14.6	22.0	20.8	21.5	22.0	21.2	21.5	22.7	20.7	21.5
5	14.2	14.0	14.1	22.2	21.6	21.9	22.7	21.1	21.9	21.9	20.5	21.0
6	14.4	14.0	14.2	22.0	21.4	21.6	23.4	21.6	22.3	21.4	20.0	20.6
7	14.9	14.1	14.5	22.3	21.0	21.7	23.5	22.0	22.6	21.3	19.6	20.3
8	15.6	14.6	15.1	22.6	21.5	22.0	23.9	21.9	22.8	21.2	19.4	20.2
9	16.0	15.0	15.5	23.0	21.9	22.4	24.4	22.6	23.3	21.2	19.2	20.0
10	16.3	15.7	16.0	23.5	22.3	22.9	24.7	22.7	23.5	20.5	19.1	19.8
11	15.9	15.3	15.5	23.3	22.8	23.0	24.9	22.7	23.7	20.4	19.6	19.9
12	15.4	14.5	14.9	23.8	22.6	23.2	25.1	23.3	24.1	20.1	19.3	19.7
13	14.6	14.3	14.4	24.0	23.0	23.5	25.2	23.9	24.4	20.1	19.2	19.7
14	14.7	14.2	14.4	23.9	22.9	23.3	25.8	23.7	24.6	20.4	19.5	19.9
15	15.1	14.3	14.7	24.0	22.9	23.4	25.9	23.7	24.6	20.6	19.7	20.1
16	15.6	14.7	15.2	23.3	22.6	23.0	25.8	23.6	24.6	20.7	19.8	20.3
17	15.6	15.1	15.4	22.9	22.2	22.5	25.6	23.9	24.6	20.9	20.2	20.5
18	16.3	15.5	15.9	22.5	21.9	22.2	25.1	23.4	24.1	20.7	20.1	20.4
19	16.7	15.7	16.2	22.6	21.6	22.1	24.6	23.0	23.6	20.4	19.7	20.0
20	17.0	16.0	16.5	22.4	21.3	21.7	---	---	---	20.1	19.5	19.8
21	17.3	16.6	17.0	22.1	21.1	21.5	---	---	---	19.6	19.1	19.4
22	18.2	17.1	17.6	22.2	21.3	21.6	23.8	22.5	23.0	19.4	18.8	19.0
23	18.9	18.2	18.6	22.6	21.1	21.7	23.0	22.1	22.6	19.0	18.4	18.7
24	19.0	18.5	18.8	22.6	21.3	21.8	23.3	21.6	22.3	19.0	18.3	18.6
25	18.7	18.2	18.4	22.9	21.5	22.1	23.5	21.1	22.2	18.8	18.3	18.5
26	18.4	17.9	18.2	23.1	21.7	22.3	23.6	21.3	22.3	18.5	18.1	18.3
27	18.2	17.9	18.1	23.4	22.0	22.6	23.5	21.4	22.3	18.6	18.1	18.3
28	18.5	17.9	18.1	22.8	22.3	22.5	22.9	21.1	21.8	18.5	18.0	18.2
29	18.9	18.0	18.5	22.3	21.7	22.1	23.6	21.2	22.3	18.3	17.6	17.9
30	19.6	18.5	19.0	22.3	21.3	21.7	23.5	21.5	22.3	17.9	17.3	17.6
31	---	---	---	22.1	21.2	21.6	23.1	21.2	21.9	---	---	---
MONTH	19.6	14.0	16.2	24.0	19.1	22.1	---	---	---	22.7	17.3	19.8

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	51	53	55	56	55	54	55	51	53	57	66
2	50	51	53	55	55	54	54	56	51	54	58	65
3	50	51	53	55	55	54	54	57	52	54	58	67
4	50	51	53	55	55	54	54	57	51	54	58	67
5	50	51	54	55	55	54	54	58	51	54	58	68
6	50	51	54	55	56	54	54	57	50	54	59	67
7	50	51	55	55	56	54	54	57	50	55	58	66
8	50	51	54	55	55	55	54	57	50	55	59	65
9	50	51	56	56	55	55	54	57	51	55	60	66
10	50	51	55	56	55	55	54	57	51	56	61	63
11	50	52	54	57	54	55	54	57	51	56	61	61
12	50	52	54	56	54	55	54	57	51	56	61	61
13	50	52	54	57	54	55	54	56	51	57	61	61
14	50	52	54	58	55	55	54	56	51	57	62	60
15	50	52	54	58	55	55	54	55	51	57	64	59
16	50	52	53	58	55	54	54	55	52	57	64	58
17	50	53	54	59	55	55	55	55	52	56	63	58
18	50	53	54	59	55	54	55	54	52	56	63	58
19	50	53	54	59	55	55	54	54	52	56	63	57
20	50	53	54	59	55	55	55	54	52	57	---	57
21	50	53	54	59	56	54	54	54	53	57	---	57
22	51	54	54	59	55	54	54	54	53	56	64	57
23	51	54	54	59	57	54	55	54	53	57	65	57
24	51	54	54	59	55	54	55	54	54	56	64	57
25	51	53	54	59	55	54	54	54	54	57	65	57
26	51	53	54	60	55	54	54	54	54	57	65	57
27	51	53	54	59	55	54	54	52	54	57	66	57
28	51	53	54	59	55	54	54	52	54	57	65	57
29	51	53	54	58	---	54	54	52	53	57	66	57
30	51	53	54	56	---	54	55	51	53	57	66	57
31	51	---	55	56	---	54	---	51	---	57	66	---
MEAN	50	52	54	57	55	54	54	55	52	56	---	61
MAX	51	54	56	60	57	55	55	58	54	57	---	68
MIN	50	51	53	55	54	54	54	51	50	53	---	57

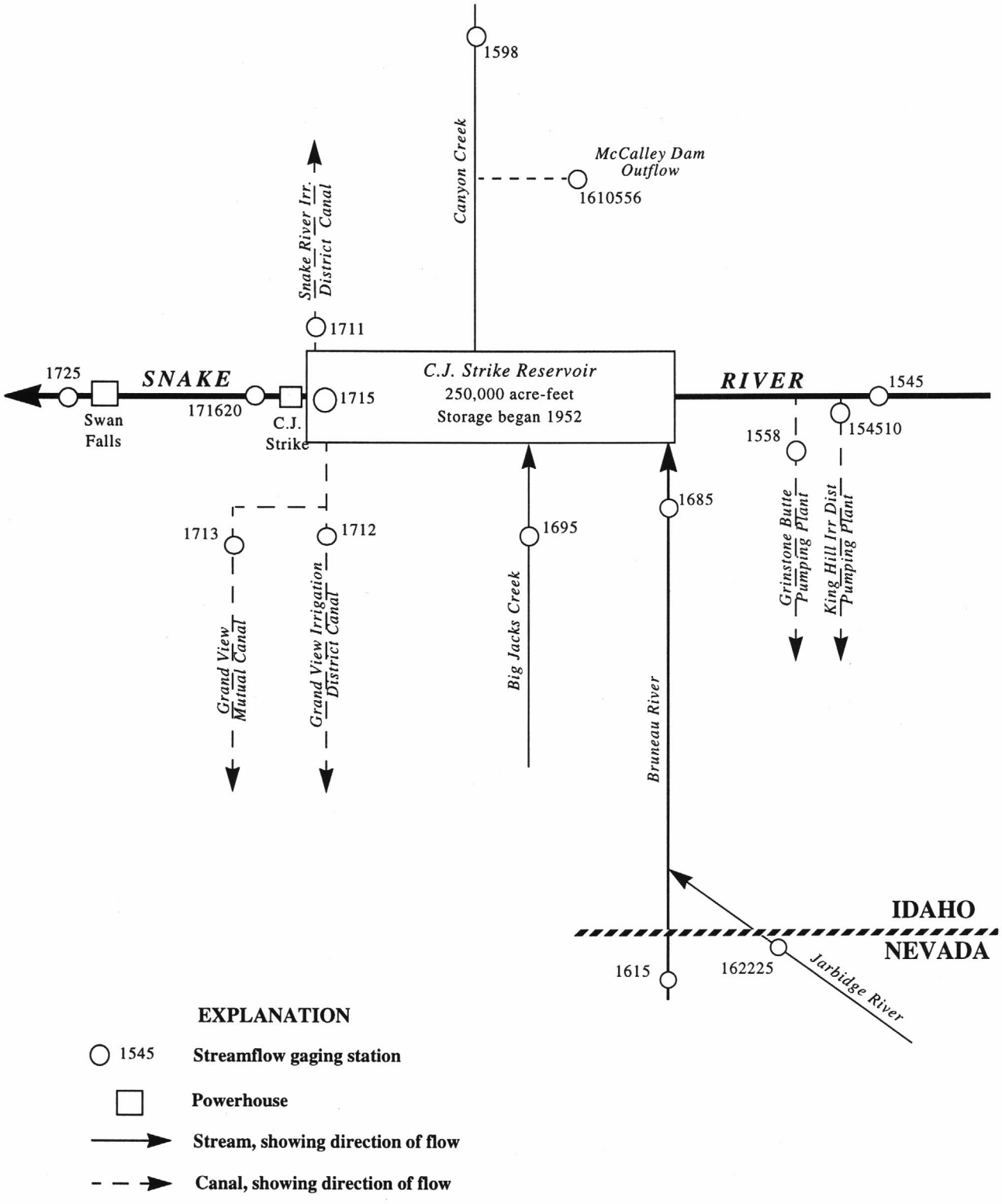


Figure 13. Schematic diagram showing gaging stations in the Snake River basin between King Hill and Murphy and in the Bruneau River basin.

DIVERSIONS FROM SNAKE RIVER
BETWEEN SNAKE RIVER AT KING HILL AND SNAKE RIVER BELOW C.J. STRIKE DAM

13154510 KING HILL IRRIGATION DISTRICT PUMPING PLANT AT KING HILL, ID

LOCATION.--Lat 43°00'04", long 115°12'30", in NW¼SE¼ sec.12, T.5 S., R.10 E., Elmore County, Hydrologic Unit 17050101, on left bank of Snake River, 0.25 mi southwest of King Hill.

PERIOD OF RECORD.--April 1988 to current year (irrigation seasons only).

GAGE.--In-line flow sensor with datalogger. Temporarily moved to right bank from April 1999 to April 2001, due to bridge construction.

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, 24 ft^3/s Aug. 30 to Sept. 1, 1995; no flow for long periods each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	.00	---	---	---	---	---	14	e9.5	19	17	20
2	15	.00	---	---	---	---	---	15	e10	19	17	19
3	13	.00	---	---	---	---	---	16	e10	19	17	18
4	e12	.00	---	---	---	---	---	16	e10	17	19	14
5	e12	.00	---	---	---	---	---	17	e10	e17	19	11
6	11	.00	---	---	---	---	.00	18	e8.0	e17	18	8.1
7	10	.00	---	---	---	---	.00	18	e9.0	e17	17	6.6
8	10	.00	---	---	---	---	.00	17	e15	e14	18	11
9	9.4	.00	---	---	---	---	.00	16	e18	e16	18	11
10	2.3	.00	---	---	---	---	.00	e16	e18	e16	21	11
11	.00	.00	---	---	---	---	.00	e18	e16	e14	22	13
12	.00	.00	---	---	---	---	.00	e17	e16	e14	e16	13
13	.00	.00	---	---	---	---	.00	e18	13	e18	e12	5.9
14	.00	---	---	---	---	---	.00	e18	16	20	16	6.6
15	.00	---	---	---	---	---	.00	e15	16	20	15	6.7
16	.00	---	---	---	---	---	.00	e14	15	20	15	6.6
17	.00	---	---	---	---	---	4.4	e17	16	20	15	9.3
18	.00	---	---	---	---	---	7.7	e14	e20	20	15	12
19	.00	---	---	---	---	---	9.8	e14	e19	20	15	12
20	.00	---	---	---	---	---	11	e14	19	20	15	12
21	.00	---	---	---	---	---	5.1	e10	20	20	15	12
22	.00	---	---	---	---	---	.00	e11	20	20	15	12
23	.00	---	---	---	---	---	1.9	e12	20	20	15	12
24	.00	---	---	---	---	---	3.3	e11	20	20	14	10
25	.00	---	---	---	---	---	10	e10	20	20	15	10
26	.00	---	---	---	---	---	16	e7.5	20	20	15	10
27	.00	---	---	---	---	---	17	e10	20	20	15	10
28	.00	---	---	---	---	---	17	e10	20	19	16	10
29	.00	---	---	---	---	---	13	e10	20	17	14	10
30	.00	---	---	---	---	---	13	e12	19	15	16	10
31	.00	---	---	---	---	---	---	e10	---	15	19	---
TOTAL	109.70	---	---	---	---	---	---	435.5	482.5	563	506	332.8
MEAN	3.54	---	---	---	---	---	---	14.0	16.1	18.2	16.3	11.1
MAX	15	---	---	---	---	---	---	18	20	20	22	20
MIN	.00	---	---	---	---	---	---	7.5	8.0	14	12	5.9
AC-FT	218	---	---	---	---	---	---	864	957	1120	1000	660

e Estimated

DIVERSIONS FROM SNAKE RIVER
BETWEEN SNAKE RIVER AT KING HILL AND SNAKE RIVER BELOW C.J. STRIKE DAM

13155800 GRINDSTONE BUTTE PUMPING PLANT NEAR GLENNS FERRY, ID

LOCATION.--Lat 42°56'12", long 115°23'00", in NW¼NE¼ sec.4, T.6 S., R.9 E., Elmore County, Hydrologic Unit 17050101, on left bank of Snake River, and 4 mi west of Glenns Ferry.

PERIOD OF RECORD.--April 1985 to November 1999, May to September 2001 (irrigation seasons only). Formerly published as Grindstone Butte Canal.

REVISED RECORDS.--WDR-ID-98-2: 1997.

GAGE.--In-line flow sensor with datalogger on two separate pipes. Prior to the 1988 water year, water-stage recorder in canal 2 mi downstream.

REMARKS.--No estimated daily discharges. Records fair. In-line flow sensor rated by current-meter measurements.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 202 ft³/s June 19, 1985; no flow for long periods each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	32	36	11	27
2	---	---	---	---	---	---	---	---	34	45	6.5	26
3	---	---	---	---	---	---	---	---	35	50	36	21
4	---	---	---	---	---	---	---	---	35	49	42	13
5	---	---	---	---	---	---	---	---	35	51	41	15
6	---	---	---	---	---	---	---	---	37	44	39	9.1
7	---	---	---	---	---	---	---	---	36	37	34	19
8	---	---	---	---	---	---	---	---	36	37	20	26
9	---	---	---	---	---	---	---	---	36	37	24	30
10	---	---	---	---	---	---	---	16	36	27	34	23
11	---	---	---	---	---	---	---	37	36	27	17	30
12	---	---	---	---	---	---	---	25	36	38	27	18
13	---	---	---	---	---	---	---	23	36	36	17	18
14	---	---	---	---	---	---	---	26	35	32	34	15
15	---	---	---	---	---	---	---	19	36	18	28	18
16	---	---	---	---	---	---	---	19	36	26	16	15
17	---	---	---	---	---	---	---	19	29	18	32	8.3
18	---	---	---	---	---	---	---	30	36	20	24	18
19	---	---	---	---	---	---	---	37	35	42	18	14
20	---	---	---	---	---	---	---	37	35	36	18	7.3
21	---	---	---	---	---	---	---	37	39	13	18	10
22	---	---	---	---	---	---	---	36	50	16	22	.00
23	---	---	---	---	---	---	---	36	33	31	29	6.7
24	---	---	---	---	---	---	---	36	35	37	18	.00
25	---	---	---	---	---	---	---	28	36	46	17	.00
26	---	---	---	---	---	---	---	31	36	52	24	7.7
27	---	---	---	---	---	---	---	35	45	46	18	.00
28	---	---	---	---	---	---	---	35	40	37	17	.00
29	---	---	---	---	---	---	---	35	36	48	17	.00
30	---	---	---	---	---	---	---	26	36	40	28	.00
31	---	---	---	---	---	---	---	30	---	24	20	---
TOTAL	---	---	---	---	---	---	---	---	1088	1096	746.5	395.10
MEAN	---	---	---	---	---	---	---	---	36.3	35.4	24.1	13.2
MAX	---	---	---	---	---	---	---	---	50	52	42	30
MIN	---	---	---	---	---	---	---	---	29	13	6.5	.00
AC-FT	---	---	---	---	---	---	---	---	2160	2170	1480	784

CANYON CREEK BASIN

13159800 CANYON CREEK AT OREGON TRAIL CROSSING NEAR MOUNTAIN HOME, ID

LOCATION.--Lat 43°15'39", long 115°42'06", in SE¼NW¼SE¼ sec.11, T.2 S., R.6 E., Hydrologic Unit 17050101, on right bank, 31 mi upstream from mouth, 3 mi downstream from confluence of Syrup Creek and Long Tom Creek, and 8.5 mi north of Mountain Home.

DRAINAGE AREA.--70.5 mi^2.

PERIOD OF RECORD.--March 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,540 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow partly regulated by Long Tom Reservoir which receives water by inter-basin transfer from South Fork Boise River drainage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,420 ft^3/s Feb. 23, 1986, gage height, 5.09 ft; no flow Sept. 29 to Oct. 28, 1991, July 21 to Nov. 9, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 54 ft^3/s May 20, June 21; minimum daily, 0.08 ft^3/s Sept. 4, 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	1.6	e2.0	2.7	e2.5	3.9	14	21	33	24	6.7	.13
2	27	1.6	e2.0	2.3	2.6	4.2	14	21	29	19	6.1	.12
3	26	1.6	e2.0	3.2	2.6	4.0	13	18	26	16	5.4	.10
4	27	1.6	e2.0	3.2	2.9	4.0	12	18	24	18	5.2	.08
5	8.8	1.6	1.9	3.1	2.9	4.1	12	24	24	23	7.0	.08
6	3.5	1.6	2.0	2.9	2.8	4.5	12	28	24	22	6.8	.15
7	2.9	1.6	1.9	2.6	2.7	5.3	13	29	28	20	5.7	.27
8	2.6	1.7	2.0	2.1	e2.5	6.7	13	29	28	20	5.5	.22
9	2.2	1.7	2.1	2.0	e3.0	9.0	13	29	37	21	5.4	.21
10	2.2	1.7	2.1	1.9	e3.0	12	13	34	38	14	4.5	.18
11	2.4	1.7	2.0	1.8	2.9	13	13	35	41	13	4.6	.15
12	2.7	1.6	2.0	2.1	2.8	13	13	42	35	7.9	5.4	.13
13	3.1	1.6	2.1	2.0	2.8	13	13	40	36	6.0	3.2	.58
14	2.4	1.7	2.1	2.0	2.7	13	13	43	31	5.6	1.2	.91
15	2.2	1.7	2.2	2.0	2.7	12	13	49	30	5.4	.89	.49
16	2.1	1.5	1.9	e2.0	2.8	13	13	49	28	5.2	e.50	.38
17	2.0	1.5	2.1	e2.0	2.8	12	13	48	28	5.2	e.50	.36
18	1.9	1.6	e2.0	2.3	2.9	11	13	47	32	5.0	e.50	.28
19	1.9	1.5	e2.0	2.3	3.0	11	15	51	41	4.8	e.50	.23
20	1.8	1.5	e2.0	2.3	3.2	13	25	54	53	4.6	e.50	.19
21	2.4	1.6	2.1	2.0	3.3	14	27	36	54	4.5	.31	.19
22	2.2	1.7	2.1	2.1	3.5	14	27	40	37	4.3	.28	.17
23	2.1	1.6	2.2	1.9	3.5	13	25	41	30	4.2	.26	.15
24	2.1	1.6	2.2	2.0	3.4	13	29	41	39	6.5	.25	.12
25	2.0	1.5	2.0	2.4	3.5	13	35	44	41	7.0	.21	.10
26	2.1	1.6	1.9	2.4	3.7	14	39	43	46	7.6	.19	.12
27	2.6	1.7	e2.0	2.4	3.8	13	30	43	46	7.5	.16	.16
28	2.3	1.6	e2.0	2.6	3.9	14	31	41	45	7.5	.15	.15
29	4.0	1.7	e2.0	e2.5	---	13	28	43	44	7.3	.14	.15
30	2.0	1.8	e2.5	e2.5	---	13	22	43	32	7.7	.14	.15
31	1.7	---	2.4	e2.5	---	13	---	39	---	7.0	.13	---
TOTAL	175.2	48.6	63.8	72.1	84.7	328.7	566	1163	1060	330.8	78.31	6.70
MEAN	5.65	1.62	2.06	2.33	3.02	10.6	18.9	37.5	35.3	10.7	2.53	.22
MAX	27	1.8	2.5	3.2	3.9	14	39	54	54	24	7.0	.91
MIN	1.7	1.5	1.9	1.8	2.5	3.9	12	18	24	4.2	.13	.08
AC-FT	348	96	127	143	168	652	1120	2310	2100	656	155	13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2001, BY WATER YEAR (WY)

MEAN	3.74	2.90	6.11	15.2	38.1	67.3	61.9	56.9	56.2	50.3	37.9	22.9
MAX	9.21	8.06	32.3	114	261	196	170	105	79.4	88.9	70.5	52.8
(WY)	1996	1986	1997	1997	1986	1989	1984	1984	1989	1999	1999	1999
MIN	.000	.59	1.08	1.69	3.03	5.12	3.38	7.17	5.73	2.16	.000	.000
(WY)	1993	1995	1991	1992	2001	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1984 - 2001	
ANNUAL TOTAL	12740.9		3977.91			
ANNUAL MEAN	34.8		10.9		33.4	
HIGHEST ANNUAL MEAN					69.6	1986
LOWEST ANNUAL MEAN					2.63	1992
HIGHEST DAILY MEAN	93	Jun 13	54	May 20	997	Feb 24 1986
LOWEST DAILY MEAN	1.5	Nov 16	.08	Sep 4	.00	Sep 28 1991
ANNUAL SEVEN-DAY MINIMUM	1.6	Nov 15	.11	Aug 30	.00	Sep 28 1991
ANNUAL RUNOFF (AC-FT)	25270		7890		24230	
10 PERCENT EXCEEDS	65		35		77	
50 PERCENT EXCEEDS	43		3.2		20	
90 PERCENT EXCEEDS	1.9		.34		1.3	

e Estimated

CANYON CREEK BASIN

131610556 MCCALLEY DAM OUTFLOW AT MOUNTAIN HOME AIR FORCE BASE, ID

LOCATION.--Lat 43°03'00", long 115°53'07", in SW¼SW¼NW¼ sec.29, T.4 S., R.5 E., Elmore County, Crater Rings SW Quad., Hydrologic Unit 17050101, on right bank at McCalley Dam, 125 ft upstream from Liberator Street, on Mountain Home Air Force Base.

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

GAGE.--Water-stage recorder. Elevation of gage is 2,980 ft above sea level, from topographic map.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--No flow for entire year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

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

CAL YR 2000 TOTAL 0.00 MEAN .000 MAX .00 MIN .00 AC-FT .00
WTR YR 2001 TOTAL 0.00 MEAN .000 MAX .00 MIN .00 AC-FT .00

e Estimated

BRUNEAU RIVER BASIN

13161500 BRUNEAU RIVER AT ROWLAND, NV

LOCATION.--Lat 41°56'00", long 115°40'25", in NW¼SE¼ sec.29, T.47 N., R.56 E., Elko County, Nevada, Hydrologic Unit 17050102, Humboldt National Forest, on left bank 2 mi upstream from McDonald Creek, and 0.5 mi south of Rowland.

DRAINAGE AREA.--382 mi^2.

PERIOD OF RECORD.--June 1913 to September 1918 (published as "near Rowland"), water years 1962-66 (annual maximum), October 1966 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,500 ft above sea level, from topographic map. June 1913 to September 1918, nonrecording gage at different site and datum. October 1961 to September 1966, crest-stage gage at site 3 mi upstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,140 ft^3/s May 14, 1984, gage height, 12.01 ft; minimum daily, 2.5 ft^3/s Sept. 18, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 23	0215	212	3.84	Apr. 28	0200	*232	*3.94

Minimum daily, 1.7 ft^3/s Aug. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	13	13	e10	e14	20	129	196	49	9.2	5.2	2.2
2	6.7	13	14	e11	e14	24	132	181	45	8.3	4.4	2.4
3	7.0	12	16	e14	e14	20	113	160	46	7.7	3.3	2.5
4	7.0	13	15	e13	e13	21	101	144	45	7.7	3.6	2.4
5	7.2	13	14	e14	e13	25	92	134	43	12	3.3	2.5
6	7.4	13	15	e13	e13	23	86	126	41	15	2.8	2.6
7	7.4	12	15	e12	e13	29	85	118	37	13	2.4	3.3
8	7.4	13	14	e20	12	32	86	118	33	13	2.3	3.7
9	7.2	13	16	e17	e11	45	79	125	30	12	2.7	4.2
10	8.4	11	17	e15	e10	37	78	130	27	13	3.4	3.7
11	10	13	14	e14	e11	31	80	130	26	12	3.1	3.3
12	9.1	14	16	e13	e13	30	78	132	31	11	2.9	4.4
13	9.7	14	15	e11	e15	36	72	139	36	9.9	3.0	8.7
14	10	13	15	e11	e16	39	72	142	36	9.1	3.1	7.2
15	10	14	16	e11	e15	34	73	150	31	8.4	2.9	5.9
16	10	13	14	e11	e17	44	79	183	27	8.6	2.5	5.7
17	10	12	15	e11	19	36	90	165	24	8.6	2.1	6.4
18	10	e11	11	e10	20	41	107	147	21	8.2	1.8	5.7
19	10	e8.2	e10	e8.0	20	52	127	134	19	7.6	1.8	5.1
20	9.9	e8.7	e9.0	e12	21	77	153	121	18	7.9	1.9	4.7
21	11	e9.0	e10	e16	19	121	152	109	16	7.0	2.0	4.9
22	11	e10	e12	e20	19	174	153	100	15	6.6	2.0	4.6
23	11	e11	14	e19	22	188	148	91	14	6.3	2.1	4.5
24	11	e12	15	e17	20	180	148	85	13	6.2	2.2	4.3
25	11	13	14	e15	21	177	158	81	13	5.7	2.5	4.4
26	11	14	11	17	17	173	181	78	13	5.3	2.1	4.9
27	12	14	e11	17	18	149	208	77	12	4.8	1.8	5.1
28	11	14	e11	18	18	156	224	69	12	4.2	1.7	5.2
29	12	14	e10	e16	---	165	204	64	11	3.9	1.7	5.4
30	14	15	e10	e13	---	141	183	59	10	4.1	1.7	5.4
31	14	---	e10	e15	---	129	---	54	---	5.2	1.9	---
TOTAL	300.0	372.9	412.0	434.0	448	2449	3671	3742	794	261.5	80.2	135.3
MEAN	9.68	12.4	13.3	14.0	16.0	79.0	122	121	26.5	8.44	2.59	4.51
MAX	14	15	17	20	22	188	224	196	49	15	5.2	8.7
MIN	6.6	8.2	9.0	8.0	10	20	72	54	10	3.9	1.7	2.2
AC-FT	595	740	817	861	889	4860	7280	7420	1570	519	159	268

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2001, BY WATER YEAR (WY)

MEAN	21.9	27.9	28.7	39.1	55.4	161	314	386	214	53.0	17.0	14.7
MAX	52.2	58.5	56.3	137	276	608	666	1256	744	257	86.5	39.8
(WY)	1985	1985	1976	1971	1986	1972	1914	1984	1984	1984	1984	1984
MIN	7.78	12.4	11.9	12.0	16.0	37.4	55.0	50.4	14.7	5.60	2.59	3.87
(WY)	1993	2001	1993	1992	2001	1981	1968	1992	1992	1992	2001	1981

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1913 - 2001	
ANNUAL TOTAL	22312.9		13099.9			
ANNUAL MEAN	61.0		35.9		111	
HIGHEST ANNUAL MEAN					290	1984
LOWEST ANNUAL MEAN					24.2	1992
HIGHEST DAILY MEAN	445	Apr 5	224	Apr 28	2070	May 14 1984
LOWEST DAILY MEAN	3.2	Aug 18	1.7	Aug 28	1.7	Aug 28 2001
ANNUAL SEVEN-DAY MINIMUM	3.4	Aug 14	1.9	Aug 26	1.9	Aug 26 2001
ANNUAL RUNOFF (AC-FT)	44260		25980		80460	
10 PERCENT EXCEEDS	215		129		338	
50 PERCENT EXCEEDS	16		13		35	
90 PERCENT EXCEEDS	5.5		3.5		11	

e Estimated

BRUNEAU RIVER BASIN

13162225 JARBIDGE RIVER BELOW JARBIDGE, NV

LOCATION.--Lat 41°53'26", long 115°25'40", in SW¼NW¼ sec.9, T.46 N., R.58 E., Elko County, Nevada, Hydrologic Unit 17050102, Humboldt National Forest, on right bank, 1.0 mi north of Jarbidge.

DRAINAGE AREA.--30.6 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 6,050 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.-Maximum discharge, 824 ft^3/s May 24, 1999, gage height, 5.50 ft; minimum daily, 2.5 ft^3/s Aug. 23, 26, 29, 30, Sept. 16, 2000, Sept. 11, 2001.

EXTREMES FOR CURRENT YEAR.-Maximum discharge, 299 ft^3/s May 15, gage height, 4.85 ft; minimum daily, 2.5 ft^3/s Sept. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	7.0	5.0	5.3	e5.5	15	e20	e51	e59	9.8	4.2	3.0
2	3.4	6.4	5.8	5.4	e5.6	13	e20	e54	e58	9.8	4.1	3.0
3	3.5	6.2	5.8	e5.3	e5.6	14	e19	e58	e58	9.3	4.1	2.8
4	3.5	6.6	5.7	e5.1	e5.6	17	e18	e60	e55	9.8	4.2	2.7
5	3.6	6.7	5.7	e5.0	e5.7	18	15	e68	e52	12	3.9	2.9
6	3.7	6.3	5.7	5.2	e5.7	26	16	e70	e49	14	3.7	3.0
7	3.6	6.1	5.6	5.5	e5.7	17	16	e70	e41	12	3.6	3.1
8	3.5	6.1	5.3	5.7	e5.8	21	16	e72	e38	11	3.8	3.1
9	3.6	6.5	5.6	5.3	e6.1	13	17	e78	e34	12	4.0	3.1
10	5.1	6.2	5.4	5.5	e5.5	13	18	e85	e33	11	3.9	2.7
11	5.2	e6.1	5.2	5.5	e6.0	13	18	e89	e32	9.3	3.5	2.5
12	4.9	e5.9	5.4	5.3	e7.2	e14	19	e91	e32	9.8	3.5	4.7
13	6.6	e5.8	5.4	5.1	e7.7	e13	20	e94	31	8.6	3.8	4.8
14	7.4	5.7	5.3	5.0	e7.9	e13	22	e170	e29	8.3	3.5	3.6
15	6.9	5.7	5.3	4.9	e7.6	e13	e23	257	e26	8.3	3.3	3.3
16	5.9	5.9	e5.3	e4.8	e7.8	13	e24	243	e24	8.0	3.2	3.3
17	5.4	e5.4	e5.2	e4.7	e9.1	e13	e25	e219	e22	7.9	2.9	3.7
18	5.1	e5.0	e5.0	e4.8	e10	e13	e27	e201	e19	7.3	2.9	3.4
19	5.0	e5.4	e5.8	e4.9	e11	e13	e28	e182	e17	7.3	3.0	3.1
20	4.9	6.0	5.6	e5.1	e12	e14	e31	e165	e16	6.9	3.2	2.9
21	6.3	6.0	5.8	e5.2	e12	14	e33	e152	e15	6.3	3.1	2.9
22	5.6	5.7	5.3	e5.2	e12	e15	e35	e138	15	6.2	3.2	2.9
23	5.3	7.9	5.4	e5.2	e12	16	e37	e125	14	6.1	3.1	2.7
24	5.2	5.7	5.1	e5.2	e12	e16	e39	e115	14	6.2	3.1	2.7
25	5.3	7.5	5.1	e5.3	e12	e17	e40	e105	13	5.6	3.1	2.6
26	5.8	5.8	5.5	e5.3	e12	18	e42	e98	13	5.3	2.8	2.7
27	6.3	5.8	5.2	e5.3	e11	e19	e44	e97	13	5.0	2.7	2.6
28	5.9	5.7	5.4	e5.3	e11	e20	e45	e95	12	4.5	2.7	2.6
29	6.6	6.1	5.6	e5.4	---	e21	e48	e89	11	4.3	2.8	2.8
30	7.5	5.7	5.8	e5.4	---	e22	e50	e78	10	4.4	2.9	2.7
31	7.3	---	5.6	e5.5	---	e22	---	e70	---	4.6	3.0	---
TOTAL	161.2	182.9	168.9	161.7	237.1	499	825	3539	855	250.9	104.8	91.9
MEAN	5.20	6.10	5.45	5.22	8.47	16.1	27.5	114	28.5	8.09	3.38	3.06
MAX	7.5	7.9	5.8	5.7	12	26	50	257	59	14	4.2	4.8
MIN	3.3	5.0	5.0	4.7	5.5	13	15	51	10	4.3	2.7	2.5
AC-FT	320	363	335	321	470	990	1640	7020	1700	498	208	182

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	6.16	7.07	6.14	5.99	7.59	14.7	40.3	129	106	22.2	5.53	4.53
MAX	8.33	9.66	7.52	6.64	8.47	17.7	59.5	170	189	55.4	9.15	6.86
(WY)	1999	1999	1999	1999	2001	1999	2000	1999	1998	1998	1998	1998
MIN	4.96	5.44	5.45	5.22	6.99	10.4	27.5	105	28.5	6.96	3.02	3.06
(WY)	2000	2000	2001	2001	1999	2000	2001	2000	2001	2000	2000	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	7610.5		7077.4			
ANNUAL MEAN	20.8		19.4		26.4	
HIGHEST ANNUAL MEAN					39.1	1999
LOWEST ANNUAL MEAN					19.4	2001
HIGHEST DAILY MEAN	262	May 24	257	May 15	541	May 30 1999
LOWEST DAILY MEAN	2.5	Aug 23	2.5	Sep 11	2.5	Aug 23 2000
ANNUAL SEVEN-DAY MINIMUM	2.6	Aug 23	2.7	Sep 23	2.6	Aug 23 2000
ANNUAL RUNOFF (AC-FT)	15100		14040		19130	
10 PERCENT EXCEEDS	61		50		105	
50 PERCENT EXCEEDS	6.6		6.1		7.8	
90 PERCENT EXCEEDS	3.3		3.2		4.1	

e Estimated

BRUNEAU RIVER BASIN

13168500 BRUNEAU RIVER NEAR HOT SPRING, ID

LOCATION.--Lat 42°46'16", long 115°43'10", in NE¼NE¼SE¼ sec.34, T.7 S., R.6 E., Owyhee County, Hydrologic Unit 17050102, on right bank, 1 mi downstream from Hot Creek, 1.5 mi south of Hot Spring, 9 mi southeast of Bruneau, 16 mi downstream from East Fork, and at mile 22.0.

DRAINAGE AREA.--2,630 mi^2, approximately. Mean elevation, 5,600 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1909 to March 1915, October 1943 to current year.

REVISED RECORDS.--WSP 1063: 1913. WSP 1517: 1910(M). WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,598.5 ft above sea level. Prior to Mar. 12, 1910, nonrecording gage at site 0.2 mi upstream at different datum. Mar. 12, 1910 to Mar. 15, 1915, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Several small reservoirs on tributaries above station. Diversions above station for irrigation of about 12,900 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,860 ft^3/s May 15, 1984, gage height, 13.03 ft; minimum, 20 ft^3/s Nov. 29, 1979, Jan. 2, 1995, result of freezeup; minimum gage height, 2.98 ft, Nov. 29, 1979, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 920 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 17	1445	*1,010	*6.11	No other peak greater than base discharge.			

Minimum daily, 28 ft^3/s Aug. 20-22, Aug. 29 to Sept. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	e65	e95	81	85	82	353	602	299	80	39	28
2	40	e65	e90	77	99	94	350	648	279	75	39	29
3	40	e65	e80	58	104	109	363	596	276	70	39	29
4	40	e65	e65	50	113	108	341	534	266	67	37	29
5	40	e65	76	62	113	105	303	481	241	65	34	29
6	41	e65	78	74	113	110	279	452	224	67	34	30
7	42	e65	79	74	103	112	270	446	209	78	33	30
8	42	e70	78	73	84	120	275	445	193	85	32	29
9	43	e65	81	94	59	147	252	475	177	82	31	30
10	44	e65	98	100	67	172	232	536	169	83	31	32
11	44	e65	100	110	96	167	229	572	164	84	31	33
12	48	e65	84	112	121	146	239	578	165	78	32	33
13	57	e70	83	105	110	133	232	617	174	77	33	35
14	58	e75	94	102	108	129	225	672	176	72	32	43
15	57	e75	98	99	99	133	219	686	166	66	33	46
16	58	e70	91	92	86	140	222	799	166	62	33	54
17	58	e60	82	75	95	139	247	984	154	60	31	45
18	56	51	78	51	103	142	323	861	143	59	31	45
19	54	42	50	73	107	134	334	732	138	59	29	46
20	53	49	52	78	110	148	412	654	132	57	28	42
21	55	62	91	95	109	211	460	585	125	55	28	39
22	56	86	110	94	106	311	447	539	118	54	28	37
23	58	90	103	79	115	424	489	500	111	50	29	36
24	60	94	100	91	110	511	512	484	104	48	29	35
25	57	89	93	100	106	501	528	473	99	46	29	34
26	58	98	81	102	104	487	496	458	97	46	29	34
27	62	96	65	98	99	481	550	455	95	43	29	33
28	64	101	50	83	86	418	639	428	95	41	29	33
29	69	96	73	70	---	418	679	398	89	39	28	34
30	67	e95	75	65	---	459	633	365	85	41	28	34
31	67	---	78	64	---	396	---	331	---	40	28	---
TOTAL	1628	2184	2551	2581	2810	7187	11133	17386	4929	1929	976	1066
MEAN	52.5	72.8	82.3	83.3	100	232	371	561	164	62.2	31.5	35.5
MAX	69	101	110	112	121	511	679	984	299	85	39	54
MIN	40	42	50	50	59	82	219	331	85	39	28	28
AC-FT	3230	4330	5060	5120	5570	14260	22080	34490	9780	3830	1940	2110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2001, BY WATER YEAR (WY)

MEAN	99.5	122	127	163	214	402	787	1256	989	287	99.6	80.3
MAX	185	248	425	724	905	1901	1882	4102	3122	1044	334	170
(WY)	1985	1910	1965	1971	1986	1910	1952	1984	1984	1984	1984	1984
MIN	43.3	63.6	58.7	80.2	98.2	119	196	277	97.8	55.3	31.5	34.8
(WY)	1993	1993	1991	1991	1994	1955	1968	1992	1992	1992	2001	1981

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1909 - 2001	
ANNUAL TOTAL	72007		56360			
ANNUAL MEAN	197		154		385	
HIGHEST ANNUAL MEAN					1012	1984
LOWEST ANNUAL MEAN					113	1992
HIGHEST DAILY MEAN	1000	May 25	984	May 17	6470	May 15 1984
LOWEST DAILY MEAN	31	Aug 30	28	Aug 20	21	Dec 21 1998
ANNUAL SEVEN-DAY MINIMUM	34	Aug 26	28	Aug 26	28	Aug 26 2001
ANNUAL RUNOFF (AC-FT)	142800		111800		279200	
10 PERCENT EXCEEDS	564		458		1120	
50 PERCENT EXCEEDS	104		84		145	
90 PERCENT EXCEEDS	40		33		68	

e Estimated

BRUNEAU RIVER BASIN

13168500 BRUNEAU RIVER NEAR HOT SPRING, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1958 to October 1959, October 1965, December 1969 to June 1982, November 1990 to September 1991, November 1993 to September 1994, April to September 1997, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August to September 1997, July to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 31.6 °C July 28, 2000.

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles.
MESH SIZE.--425 um.

AVERAGE DEPTH.--0.30 m.

AVERAGE PERCENT SHADING.--24.

AVERAGE VELOCITY.-- 0.81 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--5.

PERCENT FINES AVERAGE.--6.

BIOLOGICAL DATA, AUGUST 2000
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM TAXON *GENUS SPECIES*	DATE Aug.9	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION
NON-INSECTS			
Turbellaria		9	0.72
Uncinais uncinata		7	0.57
Hirudinea		2	0.14
Fluminicola n.sp. near fuscus		20	1.57
Physella		4	0.29
Gyraulus parvus		50	3.86
Ostracoda		2	0.14
Hyalella azteca		2	0.14
ODONATA			
Ophiogomphus		7	0.57
EPHEMEROPTERA			
Acentrella insignificans		22	1.72
Baetis tricaudatus		18	1.43
Fallceon		31	2.43
Rhithrogena		13	1.00
Stenonema		4	0.29
Tricorythodes		115	8.87
PLECOPTERA			
Hesperoperla pacifica		2	0.14
HEMIPTERA			
Ambrysus		17	1.29
TRICHOPTERA			
Brachycentrus occidentalis		6	0.43
Culoptila		17	1.29
Glossosoma		7	0.57
Protoptila		9	0.72
Helicopsyche borealis		7	0.57
Cheumatopsyche		118	9.16
Hydropsyche		390	30.19
Leucotrichia		89	6.87
Chimarra		6	0.43
LEPIDOPTERA			
Petrophila		52	4.01
COLEOPTERA			
Microcylloepus		57	4.43
Optioservus		15	1.14
Zaitzevia		92	7.15
Hydrophilidae		2	0.14
DIPTERA			
Ceratopogoninae		15	1.14
Dasyhelea		2	0.14
Hemerodromia		2	0.14
Simulium		4	0.29
Antocha		6	0.43
CHIRONOMIDAE			
Chironomidae-pupae		4	0.29
Orthocladius Complex		44	3.43
Pentaneura		4	0.29
Polypedilum		20	1.57

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 40
TOTAL INDIVIDUALS 1,292

BRUNEAU RIVER BASIN

13169500 BIG JACKS CREEK NEAR BRUNEAU, ID
(Hydrologic Benchmark station)

LOCATION.--Lat 42°47'06", long 115°59'00", in NW¼SE¼ sec. 28, T. 7 S., R. 4 E., Owyhee County, Hydrologic Unit 17050102, U.S. Bureau of Land Management lands, on left bank, 0.2 mi upstream from confluence with Little Jacks Creek, 11.5 mi southwest of Bruneau, and at mile 12.7.

DRAINAGE AREA.--253 mi^2.

PERIOD OF RECORD.--December 1938 to October 1949, July 1965 to current year. Prior to October 1968, published as "Wickahoney Creek near Bruneau".

REVISED RECORDS.--WDR Idaho 1967: Drainage area.

GAGE.--Water-stage recorder and a self-cleaning broad-crested concrete weir. Elevation of gage is 2,810 ft above sea level, by barometer. December 1938 to October 1949, at site 145 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No diversion or regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,950 ft^3/s Jan. 2, 1997, gage height, 5.82 ft; no flow for long periods most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 9.2 ft^3/s Mar. 22; no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	9.2	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	4.0	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.46	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	13.73	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.44	.000	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	.00	9.2	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	27	.00	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	1.14	1.11	.65	5.56	7.26	18.5	13.1	6.60	3.44	1.42	1.02	1.04
MAX	13.6	13.1	8.07	80.4	69.8	110	115	89.4	54.6	18.0	15.3	13.9
(WY)	1985	1985	1984	1997	1986	1972	1984	1984	1984	1984	1984	1984
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1940	1940	1940	1940	1942	1942	1940	1940	1939	1939	1939	1939

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	159.74		13.73			
ANNUAL MEAN	.44		.038		5.13	
HIGHEST ANNUAL MEAN					32.6	1984
LOWEST ANNUAL MEAN					.000	1966
HIGHEST DAILY MEAN	22	Mar 27	9.2	Mar 22	1210	Jan 2 1997
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	May 16 1939
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	May 16 1939
ANNUAL RUNOFF (AC-FT)	317		27		3720	
10 PERCENT EXCEEDS	.73		.00		11	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

DIVERSIONS FROM SNAKE RIVER
BETWEEN SNAKE RIVER AT KING HILL AND SNAKE RIVER BELOW C.J. STRIKE DAM

13171100 SNAKE RIVER IRRIGATION DISTRICT CANAL NEAR GRAND VIEW, ID

LOCATION.--Lat 42°57'02", long 115°58'01", in NW¼SW¼NW¼ sec.34, T.5 S., R.4 E., Owyhee County, Hydrologic Unit 17050103, on left bank at road crossing, 0.4 mi north of C.J. Strike Dam.

PERIOD OF RECORD.--March 1986 to October 2001 (irrigation seasons only) (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 2,450 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Canal carries water from C.J. Strike Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 209 ft^3/s July 6, 20, 21, Aug. 6, 7, 12, 15, 16, 2000, July 30, 2001; no flow for long periods each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	---	---	---	---	.00	120	173	174	204	205	200
2	131	---	---	---	---	.00	124	175	178	205	208	201
3	132	---	---	---	---	.00	130	174	178	206	203	200
4	131	---	---	---	---	.00	133	177	177	205	200	201
5	132	---	---	---	---	.00	135	182	176	205	200	200
6	132	---	---	---	---	.00	143	182	175	206	199	201
7	132	---	---	---	---	.00	147	175	176	207	200	200
8	132	---	---	---	---	.00	147	172	176	207	202	200
9	132	---	---	---	---	.00	147	173	175	203	203	200
10	134	---	---	---	---	.00	146	172	176	202	201	201
11	136	---	---	---	---	.00	146	175	177	203	202	200
12	135	---	---	---	---	.00	149	170	177	203	195	194
13	130	---	---	---	---	.00	154	161	175	203	198	187
14	114	---	---	---	---	.00	157	157	178	204	201	185
15	105	---	---	---	---	.00	162	161	184	205	201	183
16	105	---	---	---	---	.00	164	154	194	207	200	164
17	105	---	---	---	---	.00	171	142	198	208	200	154
18	104	---	---	---	---	.00	176	139	200	208	199	147
19	103	---	---	---	---	.00	175	139	201	204	198	141
20	96	---	---	---	---	58	174	147	201	202	198	133
21	96	---	---	---	---	71	173	147	201	200	197	130
22	97	---	---	---	---	72	173	157	200	200	197	124
23	95	---	---	---	---	77	173	161	199	199	197	122
24	96	---	---	---	---	85	173	160	202	199	197	122
25	95	---	---	---	---	84	174	163	203	203	197	123
26	95	---	---	---	---	89	174	164	204	205	197	123
27	95	---	---	---	---	97	173	164	202	205	198	123
28	88	---	---	---	---	107	174	164	205	207	197	123
29	80	---	---	---	---	109	175	164	205	208	198	124
30	38	---	---	---	---	116	175	166	205	209	199	124
31	1.2	---	---	---	---	120	---	169	---	208	200	---
TOTAL	3330.2	---	---	---	---	1085.00	4737	5079	5672	6340	6187	4930
MEAN	107	---	---	---	---	35.0	158	164	189	205	200	164
MAX	136	---	---	---	---	120	176	182	205	209	208	201
MIN	1.2	---	---	---	---	.00	120	139	174	199	195	122
AC-FT	6610	---	---	---	---	2150	9400	10070	11250	12580	12270	9780

DISCHARGE, CUBIC FEET PER SECOND, OCTOBER 2001
DAILY MEAN VALUES

DAY	OCT	DAY	OCT	DAY	OCT	DAY	OCT	DAY	OCT	DAY	OCT
1	128	6	129	11	118	16	104	21	104	26	104
2	135	7	129	12	118	17	104	22	105	27	98
3	133	8	123	13	118	18	104	23	106	28	96
4	133	9	118	14	118	19	104	24	105	29	96
5	133	10	118	15	109	20	104	25	103	30	96
										31	36

TOTAL	3429
MEAN	111
MAX	135
MIN	36
AC-FT	6800

DIVERSIONS FROM SNAKE RIVER
BETWEEN SNAKE RIVER AT KING HILL AND SNAKE RIVER BELOW C.J. STRIKE DAM

13171200 GRAND VIEW IRRIGATION DISTRICT CANAL NEAR GRAND VIEW, ID

LOCATION.--Lat 42°56'37", long 115°59'33", in SE¼NW¼SW¼ sec.33, T.5 S., R.4 E., Owyhee County, Hydrologic Unit 17050103, and 0.75 mi west of C.J. Strike Dam.

PERIOD OF RECORD.--July 1985 to October 2001 (irrigation seasons only) (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 2,415 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges in October and March, which are poor. Canal carries water from C.J. Strike Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 233 ft³/s Apr. 21, 1994; no flow for long periods each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	---	---	---	---	e1.0	129	169	184	191	172	204
2	147	---	---	---	---	e1.0	129	166	175	192	172	194
3	147	---	---	---	---	e1.0	134	163	174	197	172	174
4	147	---	---	---	---	e1.0	135	165	172	198	172	180
5	147	---	---	---	---	e1.0	136	165	161	194	180	187
6	152	---	---	---	---	e1.0	142	165	130	189	184	185
7	160	---	---	---	---	e1.0	146	166	162	182	188	173
8	160	---	---	---	---	e1.0	146	170	176	182	190	156
9	159	---	---	---	---	e1.0	146	173	181	182	187	157
10	159	---	---	---	---	e1.0	146	177	191	181	183	155
11	161	---	---	---	---	e1.0	145	176	197	174	171	151
12	155	---	---	---	---	e1.0	139	174	201	172	154	155
13	143	---	---	---	---	e1.0	139	171	200	168	128	157
14	143	---	---	---	---	e1.0	149	169	200	168	122	157
15	145	---	---	---	---	e1.0	149	153	195	162	138	152
16	145	---	---	---	---	e1.0	148	133	182	162	164	158
17	145	---	---	---	---	e9.0	145	129	178	155	171	158
18	136	---	---	---	---	e8.0	148	121	178	150	171	156
19	129	---	---	---	---	e1.5	152	121	177	156	171	160
20	129	---	---	---	---	53	151	122	178	168	176	165
21	115	---	---	---	---	115	148	117	181	172	176	157
22	114	---	---	---	---	115	148	90	182	166	176	157
23	114	---	---	---	---	116	150	93	182	155	177	157
24	114	---	---	---	---	116	155	148	179	165	173	159
25	114	---	---	---	---	116	157	171	181	169	169	166
26	114	---	---	---	---	116	164	183	182	145	170	162
27	50	---	---	---	---	116	172	182	190	161	181	134
28	e2.0	---	---	---	---	116	172	180	187	183	188	104
29	e1.5	---	---	---	---	117	172	188	173	175	193	116
30	e1.5	---	---	---	---	122	172	192	188	173	202	132
31	e1.50	---	---	---	---	124	---	190	---	172	203	---
TOTAL	3698.50	---	---	---	---	1376.5	4464	4882	5417	5359	5374	4778
MEAN	119	---	---	---	---	44.4	149	157	181	173	173	159
MAX	161	---	---	---	---	124	172	192	201	198	203	204
MIN	1.5	---	---	---	---	1.0	129	90	130	145	122	104
AC-FT	7340	---	---	---	---	2730	8850	9680	10740	10630	10660	9480

e Estimated

DISCHARGE, CUBIC FEET PER SECOND, OCTOBER 2001
DAILY MEAN VALUES

DAY	OCT	DAY	OCT	DAY	OCT	DAY	OCT	DAY	OCT	DAY	OCT
1	137	6	130	11	146	16	144	21	124	26	55
2	142	7	118	12	147	17	137	22	124	27	e1.5
3	142	8	117	13	147	18	132	23	124	28	e1.5
4	142	9	124	14	147	19	125	24	124	29	e1.5
5	140	10	135	15	149	20	124	25	124	30	e1.5
										31	e1.5

TOTAL	3407.5
MEAN	110
MAX	149
MIN	1.5
AC-FT	6760

e Estimated

DIVERSIONS FROM SNAKE RIVER
BETWEEN SNAKE RIVER AT KING HILL AND SNAKE RIVER BELOW C.J. STRIKE DAM

13171300 GRAND VIEW MUTUAL CANAL NEAR GRAND VIEW, ID

LOCATION.--Lat 42°56'31", long 115°59'26", in NW¼SE¼SW¼ sec.33, T.5 S., R.4 E., Owyhee County, Hydrologic Unit 17050103, on left bank, 0.7 mi west of C.J. Strike Dam.

PERIOD OF RECORD.--March 1986 to October 2001 (irrigation seasons only) (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 2,450 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Canal carries water from C.J. Strike Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 156 ft³/s July 2, 1995; no flow for long periods each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	---	---	---	---	.00	33	100	104	128	122	118
2	68	---	---	---	---	.00	53	110	103	125	122	119
3	68	---	---	---	---	.00	74	108	106	121	121	123
4	68	---	---	---	---	.00	88	108	106	123	120	137
5	68	---	---	---	---	.00	89	115	101	129	120	137
6	68	---	---	---	---	.00	91	119	103	131	120	129
7	68	---	---	---	---	.00	98	120	108	131	121	126
8	69	---	---	---	---	.00	98	119	113	131	121	124
9	69	---	---	---	---	.00	98	120	123	131	121	125
10	70	---	---	---	---	.00	99	119	122	134	121	125
11	71	---	---	---	---	.00	99	120	127	120	122	125
12	72	---	---	---	---	.00	98	119	135	108	124	125
13	72	---	---	---	---	.00	98	120	128	106	125	124
14	60	---	---	---	---	.00	97	120	121	106	125	117
15	13	---	---	---	---	.00	97	119	121	105	125	111
16	.00	---	---	---	---	.00	98	106	121	106	125	111
17	.00	---	---	---	---	.00	98	107	121	106	124	112
18	.00	---	---	---	---	.00	98	108	120	108	109	112
19	.00	---	---	---	---	.00	97	99	120	108	105	112
20	.00	---	---	---	---	.00	97	98	122	109	105	114
21	.00	---	---	---	---	.00	97	89	125	110	105	122
22	.00	---	---	---	---	.00	97	82	128	110	105	123
23	.00	---	---	---	---	.00	97	83	132	110	104	118
24	.00	---	---	---	---	.00	97	87	132	112	105	108
25	.00	---	---	---	---	.00	99	94	125	121	105	112
26	.00	---	---	---	---	.00	110	103	125	125	105	125
27	.00	---	---	---	---	.00	104	102	125	129	105	123
28	.00	---	---	---	---	.00	98	95	127	128	106	117
29	.00	---	---	---	---	.00	97	86	129	128	106	98
30	.00	---	---	---	---	.00	97	86	128	127	107	94
31	.00	---	---	---	---	1.0	---	99	---	123	111	---
TOTAL	974.00	---	---	---	---	1.00	2791	3260	3601	3689	3562	3566
MEAN	31.4	---	---	---	---	.032	93.0	105	120	119	115	119
MAX	72	---	---	---	---	1.0	110	120	135	134	125	137
MIN	.00	---	---	---	---	.00	33	82	101	105	104	94
AC-FT	1930	---	---	---	---	2.0	5540	6470	7140	7320	7070	7070

DISCHARGE, CUBIC FEET PER SECOND, OCTOBER 2001
DAILY MEAN VALUES

DAY	OCT	DAY	OCT	DAY	OCT	DAY	OCT	DAY	OCT	DAY	OCT
1	94	6	103	11	84	16	.00	21	.00	26	.00
2	94	7	85	12	84	17	.00	22	.00	27	.00
3	85	8	68	13	84	18	.00	23	.00	28	.00
4	90	9	84	14	85	19	.00	24	.00	29	.00
5	93	10	84	15	35	20	.00	25	.00	30	.00
										31	.00

TOTAL	12582.0
MEAN	40.4
MAX	103
MIN	.00
AC-FT	2480

SNAKE RIVER MAIN STEM

13171500 C. J. STRIKE RESERVOIR NEAR GRAND VIEW, ID

LOCATION.--Lat 42°56'38", long 115°58'28", in SW¼NW¼SW¼ sec.34, T.5 S., R.4 E., Owyhee County, Hydrologic Unit 17050103, on left bank near the dam on Snake River, 7 mi southeast of Grand View, at mile 494.0.

DRAINAGE AREA.--40,800 mi^2, approximately.

PERIOD OF RECORD.--March 1952 to September 1967 (month-end contents only), July 1986 to current year.

REVISED RECORDS.--WDR ID-87-1: 1986 (M, m).

GAGE.--Water-stage recorder. Datum of gage is sea level.

REMARKS.--Station includes satellite telemetry. Reservoir is formed by earthfill, rock-faced dam. Storage began in February 1952. Total capacity, 250,000 acre-ft at elevation 2,455 ft (top of spillway gates), of which about 50,000 acre-ft is controlled storage. Water is used for power generation by Idaho Power Co. Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 253,700 acre-ft Mar. 31, 1956, elevation, 2,455.49 ft; minimum since first filling, 215,600 acre-ft (corrected) Mar. 3-10, 1991, elevation, 2,450.14 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 250,700 acre-ft May 4, July 4, elevation, 2,455.09 ft; minimum, 243,900 acre-ft May. 20, elevation, 2,454.17 ft.

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

2,554.0	242,600
2,555.0	250,000
2,556.0	257,600

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	246600	249400	247800	247900	247900	248800	248200	246800	247000	248600	249400	249800
2	246500	248500	247400	248500	248000	248200	247100	248200	248000	249100	249800	249700
3	247500	247900	247800	247600	248000	248300	247700	248200	248600	249000	249200	249900
4	246700	247200	247800	247300	247600	248200	247600	248000	248300	249100	249100	249600
5	248100	246600	248200	247600	247600	248000	247200	247800	247600	249000	248800	249500
6	248100	248600	247300	247600	247900	248400	246900	247700	248100	249200	248500	249200
7	248200	248100	247900	247800	248200	---	246700	247900	248400	249600	249100	249000
8	248200	247300	248100	247300	248200	---	247600	247500	247800	249600	249400	249100
9	247900	248700	248000	247900	247400	---	247900	247600	247900	249000	249200	249700
10	248400	248900	248900	248100	247500	---	247200	247200	247400	249400	248200	249900
11	249300	248200	248700	247900	247700	---	247800	247300	248800	249600	249500	249900
12	248700	247200	249400	247800	248600	247900	248400	247800	248200	249100	247700	248300
13	248700	248400	247200	247600	247900	247000	247900	248400	248200	248700	248400	248600
14	249100	247000	248900	247600	247800	248200	248300	247400	248200	248400	248700	249400
15	249000	248200	247300	248000	247900	248000	248500	248500	248200	249800	249400	248900
16	248700	249000	248100	247900	247900	247400	247600	248800	248200	249600	249000	249000
17	246600	247900	248400	247400	247100	247800	247400	247900	246800	249200	249200	248200
18	246500	247900	248000	247700	247900	248200	246600	246400	248400	248400	248800	247600
19	247800	248100	247000	247700	247200	247700	247900	244800	249000	249600	247900	247500
20	247700	249100	248500	248200	247900	247200	247200	245100	249100	250000	249100	248500
21	247300	247900	246700	248200	247700	247300	247900	246000	249600	249500	249400	248400
22	248300	247600	247900	247300	248000	247400	247700	247200	249300	249400	249100	248200
23	247600	247900	248000	247700	247600	247500	247300	248200	249400	249200	248800	248600
24	247900	247400	247700	248000	248200	247900	---	248200	248400	249300	248700	248500
25	247600	248300	247700	248000	248000	247400	---	247400	249300	249100	248900	248000
26	247300	248200	247900	247200	248000	247200	247500	247500	249400	249300	249600	248200
27	246700	248200	247400	247900	247900	247900	247700	247500	248500	248900	249600	248400
28	247000	248400	247900	247500	247200	247100	248100	247000	248900	249100	249000	248500
29	248800	247200	247200	247800	---	247200	248600	248200	248700	248400	248700	248600
30	248100	248000	247900	247900	---	247500	246900	246800	248400	249500	249400	248100
31	249400	---	247500	247900	---	247400	---	247300	---	248400	249600	---
MAX	249400	249400	249400	248500	248600	---	---	248800	249600	250000	249800	249900
MIN	246500	246600	246700	247200	247100	---	---	244800	246800	248400	247700	247500
†	2454.91	2454.73	2454.66	2454.72	2454.63	2454.65	2454.58	2454.64	2454.79	2454.78	2454.95	2454.74
‡	2500	-1400	-500	400	-700	200	-500	400	1100	0	1200	-1500

CAL YR 2000 ‡ -1300
WTR YR 2001 ‡ 1200

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

SNAKE RIVER MAIN STEM

13171620 SNAKE RIVER BELOW C.J. STRIKE DAM NEAR GRAND VIEW, ID

LOCATION.--Lat 42°56'50", long 115°58'49", in SW¼SE¼NE¼ sec.33, T.5 S., R.4 E., Owyhee County, Hydrologic Unit 17050103, on downstream left bank end of bridge about 0.25 mi below dam, 10 mi northwest of Bruneau, 6.5 mi southeast of Grand View, and at mile 493.8.

DRAINAGE AREA.--40,800 mi^2, approximately.

PERIOD OF RECORD.--April 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,350 ft above sea level, from topographic map.

REMARKS.--Records fair.

COOPERATION.--Discharge records furnished by Idaho Power and reviewed by U.S. Geological Survey beginning April 2001.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,000 ft^3/s June 20, 21, 1997, gage height, 14.88 ft; minimum, 2,000 ft^3/s Mar. 4, 1988, gage height, 3.28 ft; minimum daily, 3,880 ft^3/s June 12, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 10,400 ft^3/s Oct. 17; minimum daily, 4,580 ft^3/s June 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8820	9370	8320	7450	e7500	6890	6820	6740	5370	4930	4820	5960
2	9190	9400	7640	7830	7880	7460	7530	5700	5470	4820	5170	6250
3	8110	8880	8000	7880	7480	7470	6630	6570	5580	5100	5560	5990
4	8960	8840	7860	7530	7770	7520	6650	6400	6120	5060	5240	6390
5	7860	8860	7910	7430	7870	7310	6660	6250	6160	4850	5290	5730
6	8750	7520	8530	7430	7740	7090	6380	6320	5790	4880	5600	6360
7	8780	8960	7720	7710	7850	7520	6500	5990	5700	5130	5120	6450
8	8780	8910	7520	7780	7910	7420	6250	6390	6020	5480	5060	6410
9	8640	8040	7760	7640	8010	7670	6420	5940	5600	5620	5160	6030
10	8770	8920	7840	7500	7250	7740	7250	6060	5220	4890	5650	6300
11	9040	8940	9360	7860	7390	7520	6670	5820	5350	5380	6070	6220
12	9730	8950	9380	7880	7280	8090	6970	5730	5560	5670	5450	7160
13	9380	7920	9390	7670	7790	7630	7280	6200	5330	5410	4830	6010
14	9450	8850	7880	7870	7890	7490	7030	7570	5540	5480	5260	6110
15	9940	7910	9320	7680	7650	7540	7130	7670	5380	4870	5280	6800
16	10000	8210	7730	7670	7150	7620	7790	7070	5080	5510	5640	7180
17	10400	8930	7480	8080	7570	7460	6910	8730	5500	5600	5660	7300
18	8870	8300	8310	7600	7340	7310	6400	8830	4580	5540	5360	7260
19	7930	8310	8280	7400	7890	7660	6710	8760	4890	5170	5530	6760
20	8280	7900	7140	7450	7230	7530	7010	7200	5110	5500	5590	6360
21	8440	8900	8340	7630	7570	7360	6720	7260	5010	5220	5670	7270
22	8310	8420	7500	7770	7310	7040	6940	6450	5000	5320	5860	6950
23	8800	8000	7500	7880	7680	7120	6950	6310	4960	5370	5980	6670
24	8200	7950	7740	7060	7200	7260	6470	6720	5100	5410	5790	7030
25	8800	7730	8050	7720	7560	7560	6290	6650	5030	5160	5740	6980
26	8900	8320	7760	8190	7450	7050	6180	6400	5480	4910	5590	6940
27	8900	8400	7730	7480	7530	6700	6280	6280	4800	5250	5940	6840
28	8400	8520	7590	7510	7980	7210	5960	6380	4900	5000	6100	6890
29	7590	8760	7750	7470	---	6970	6460	5850	5410	4950	6000	6950
30	8890	7570	7500	7560	---	6630	6710	6560	5280	5670	5630	7310
31	8960	---	7680	e7500	---	6970	---	5770	---	5240	5810	---
TOTAL	273870	254490	248510	237110	212720	227810	201950	206570	160320	162390	171450	198860
MEAN	8835	8483	8016	7649	7597	7349	6732	6664	5344	5238	5531	6629
MAX	10400	9400	9390	8190	8010	8090	7790	8830	6160	5670	6100	7310
MIN	7590	7520	7140	7060	7150	6630	5960	5700	4580	4820	4820	5730
AC-FT	543200	504800	492900	470300	421900	451900	400600	409700	318000	322100	340100	394400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2001, BY WATER YEAR (WY)

MEAN	10000	10180	10500	11080	11460	12630	12560	11640	11950	6991	7222	8676
MAX	18320	16300	18090	18390	27560	29390	26950	25470	34180	10510	10450	14800
(WY)	1987	1987	1987	1997	1997	1997	1986	1986	1997	1997	1997	1997
MIN	7319	7578	4910	7450	7346	6781	6049	5090	4580	4824	5342	6629
(WY)	1993	1993	1990	1989	1993	1991	1992	1992	1992	1992	1992	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1985 - 2001	
ANNUAL TOTAL	3298200		2556050			
ANNUAL MEAN	9011		7003		10360	
HIGHEST ANNUAL MEAN					18090	1997
LOWEST ANNUAL MEAN					6671	1992
HIGHEST DAILY MEAN	15800	Jan 1	10400	Oct 17	44000	Jun 16 1997
LOWEST DAILY MEAN	5180	Jun 24	4580	Jun 18	3880	Jun 12 1992
ANNUAL SEVEN-DAY MINIMUM	5410	Jun 19	4950	Jun 18	4300	Jun 6 1992
ANNUAL RUNOFF (AC-FT)	6542000		5070000		7503000	
10 PERCENT EXCEEDS	13600		8780		17900	
50 PERCENT EXCEEDS	8310		7210		8340	
90 PERCENT EXCEEDS	6580		5260		6110	

e Estimated

SNAKE RIVER MAIN STEM

13172500 SNAKE RIVER NEAR MURPHY, ID

LOCATION.--Lat 43°17'31", long 116°25'12", in NW¼NE¼SE¼ sec.35, T.1 S., R.1 W., Ada County, Hydrologic Unit 17050103, on right bank, 4.2 mi downstream from Swan Falls powerplant, 7.5 mi northeast of Murphy, and at mile 453.5.

DRAINAGE AREA.--41,900 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August to October 1912, August 1913 to current year.

REVISED RECORDS.--WSP 1737: 1933(M).

GAGE.--Water-stage recorder. Datum of gage is 2,271.17 ft above sea level. Prior to Sept. 7, 1914, nonrecording gage, and Sept. 7, 1914 to Sept. 30, 1935, water-stage recorder at site 3.5 mi upstream at datum 9.79 ft higher.

REMARKS.--Records good. Station equipment includes satellite telemetry. Major regulation by American Falls Reservoir, 260.5 mi upstream. Diurnal fluctuation caused by hydroelectric plants upstream. Diversions above station for irrigation of about 2,590,000 acres, of which about 701,000 acres are irrigated by withdrawals from ground water (1966 determination).

COOPERATION.--Discharge records furnished by Idaho Power and reviewed by U.S. Geological Survey beginning July 2001.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,300 ft^3/s June 22, 1918, gage height, 13.95 ft, site and datum then in use; minimum, 3,650 ft^3/s July 7, 1981, gage height, 2.22 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 11,300 ft^3/s Dec. 13; minimum daily, 5,000 ft^3/s June 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8840	9380	7530	7680	8050	8220	7520	6850	5640	5420	5320	5950
2	8850	9480	7980	7300	7280	7270	7130	6690	5850	5260	5520	6110
3	8900	9100	7350	8320	8060	7610	7610	6140	5760	5420	5850	6200
4	8870	8920	7890	7590	7610	7870	6820	6480	6100	5460	5590	6160
5	8930	8940	7690	7240	7810	8200	6860	6470	6330	5260	5510	6130
6	8590	8300	8090	7580	7920	7900	6710	6460	6010	5210	5820	5940
7	9050	8460	8090	7430	7480	7010	6350	6540	5920	5370	5600	6450
8	9120	9080	7600	8230	7990	8060	6820	6090	5980	5570	5280	6510
9	9120	8300	7170	7470	8160	7920	6510	6820	6310	5950	5470	6540
10	9160	8970	7860	7520	7740	7870	6900	6170	5750	5690	5840	6320
11	9210	9040	8780	7610	7180	7930	7590	6190	5600	5750	5930	6430
12	10000	9080	10200	7880	7870	8460	6830	5810	5670	5720	e5300	6880
13	9810	8470	11300	7990	7160	8120	7110	5960	5740	5810	e5400	e6100
14	9850	8800	9080	7590	8110	7760	7560	7500	5830	5780	5270	e6200
15	10400	8140	8220	7970	7950	8040	7340	7980	6020	5800	5590	6830
16	9880	8140	8010	7810	8050	7950	7860	7550	5730	5630	5830	6820
17	10400	8630	7470	7760	7430	7900	7900	8010	5570	5770	5600	7430
18	9960	8430	8010	8160	7750	7750	6650	8890	5240	5990	5690	7590
19	8510	8270	8090	7560	7730	7970	6570	8940	5000	5960	5550	6730
20	8340	8490	7470	7400	8010	8050	7100	7660	5470	5720	5710	6790
21	8850	8160	7690	7770	7720	7840	7180	8500	5370	5680	5940	6600
22	8430	8360	7920	7990	7610	7770	6950	6280	5310	5630	5870	7260
23	9190	7990	7320	7820	7650	7810	7020	6900	5280	5880	5920	6740
24	8660	7880	7570	7590	7970	7460	7340	6610	5300	5850	5930	7200
25	8980	7900	7910	7460	7460	7890	6500	6860	5300	5600	5840	6790
26	9110	7870	7830	8260	7870	7810	6470	6800	5600	5340	6000	6820
27	9250	8410	7750	8190	7890	7000	6380	6560	5660	5550	5940	6870
28	9180	8080	7620	7120	7890	7440	6380	6400	5000	5410	6040	6870
29	8080	8640	7540	8210	---	7450	6150	6140	5520	5420	5900	6700
30	8330	7950	7630	7500	---	7220	7010	6420	5630	5530	6010	7150
31	8990	---	7450	7710	---	6850	---	6610	---	6180	5940	---
TOTAL	282840	255660	248110	239710	217400	240400	209120	213280	169490	174610	177000	199110
MEAN	9124	8522	8004	7733	7764	7755	6971	6880	5650	5633	5710	6637
MAX	10400	9480	11300	8320	8160	8460	7900	8940	6330	6180	6040	7590
MIN	8080	7870	7170	7120	7160	6850	6150	5810	5000	5210	5270	5940
AC-FT	561000	507100	492100	475500	431200	476800	414800	423000	336200	346300	351100	394900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2001, BY WATER YEAR (WY)

MEAN	10560	11360	11490	11700	11950	12330	13540	13040	13060	8033	7450	8524
MAX	18500	21370	21020	23250	26540	28350	28950	31250	31980	21230	10480	14870
(WY)	1972	1985	1984	1984	1997	1997	1971	1984	1997	1917	1997	1997
MIN	7086	7513	7601	7581	7352	7005	6093	5285	4971	5274	5266	6055
(WY)	1993	1935	1993	1993	1993	1991	1992	1992	1992	1992	1992	1915

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1914 - 2001	
ANNUAL TOTAL	3326200		2626730			
ANNUAL MEAN	9088		7197		11070	
HIGHEST ANNUAL MEAN					19180	1984
LOWEST ANNUAL MEAN					6744	1992
HIGHEST DAILY MEAN	15000	Jan 1	11300	Dec 13	46100	Jun 22 1918
LOWEST DAILY MEAN	5310	Jun 25	5000	Jun 19	4370	Jun 5 1992
ANNUAL SEVEN-DAY MINIMUM	5520	Jun 19	5280	Jun 18	4620	Jun 28 1981
ANNUAL RUNOFF (AC-FT)	6598000		5210000		8022000	
10 PERCENT EXCEEDS	13600		8850		17600	
50 PERCENT EXCEEDS	8440		7430		9340	
90 PERCENT EXCEEDS	6520		5600		6910	

e Estimated

SNAKE RIVER MAIN STEM

13172500 SNAKE RIVER NEAR MURPHY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1975 to October 1976, April 1978 to January 1982, November 1990 to September 1991, November 1993 to September 1994, April to September 1997, June to September 1998, April to August 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August to September 1997, June to September 1998, April to August 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 26.8 °C July 26, 1998.

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles.
MESH SIZE.--425 um.

AVERAGE DEPTH.--0.16 m.

AVERAGE PERCENT SHADING.--4.

AVERAGE VELOCITY.-- 0.65 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--4-5.

PERCENT FINES AVERAGE.--34.

BIOLOGICAL DATA, JULY 2000
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE July 12	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION
NON-INSECTS			
Turbellaria		22	1.42
Nematoda		4	0.28
Uncinais uncinata		4	0.28
Kincaidiana hexatheca		2	0.14
Hirudinea		33	2.12
Corbicula fluminea		44	2.83
Potamopyrgus antipodarum		65	4.25
Fluminicola n.sp. near fuscus		187	12.18
Vorticifex effusa effusa		2	0.14
Ostracoda		28	1.84
Hyalella azteca		63	4.11
Acari		15	0.99
EPHEMEROPTERA			
Acentrella insignificans		9	0.57
Ephemerella inermis/infrequens		2	0.14
Stenonema		2	0.14
Tricorythodes		126	8.22
TRICHOPTERA			
Culoptila		11	0.71
Protoptila		4	0.28
Helicopsyche borealis		24	1.56
Cheumatopsyche		20	1.27
Hydropsyche		334	21.67
Hydroptila		11	0.71
Ochrotrichia		4	0.28
LEPIDOPTERA			
Petrophila		4	0.28
COLEOPTERA			
Microcylloepus		2	0.14
DIPTERA			
Dolichopodidae		9	0.57
Hemerodromia		4	0.28
Ephydridae		2	0.14
Simulium		44	2.83
CHIRONOMIDAE			
Chironomidae-pupae		50	3.26
Cricotopus		238	15.44
Cricotopus Trifascia group		94	6.09
Dicrotendipes		2	0.14
Limnophyes		2	0.14
Microtendipes		28	1.84
Orthocladius Complex		13	0.85
Paratanytarsus		2	0.14
Polypedilum		17	1.13
Pseudosmittia		9	0.57

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 39
TOTAL INDIVIDUALS 1,539

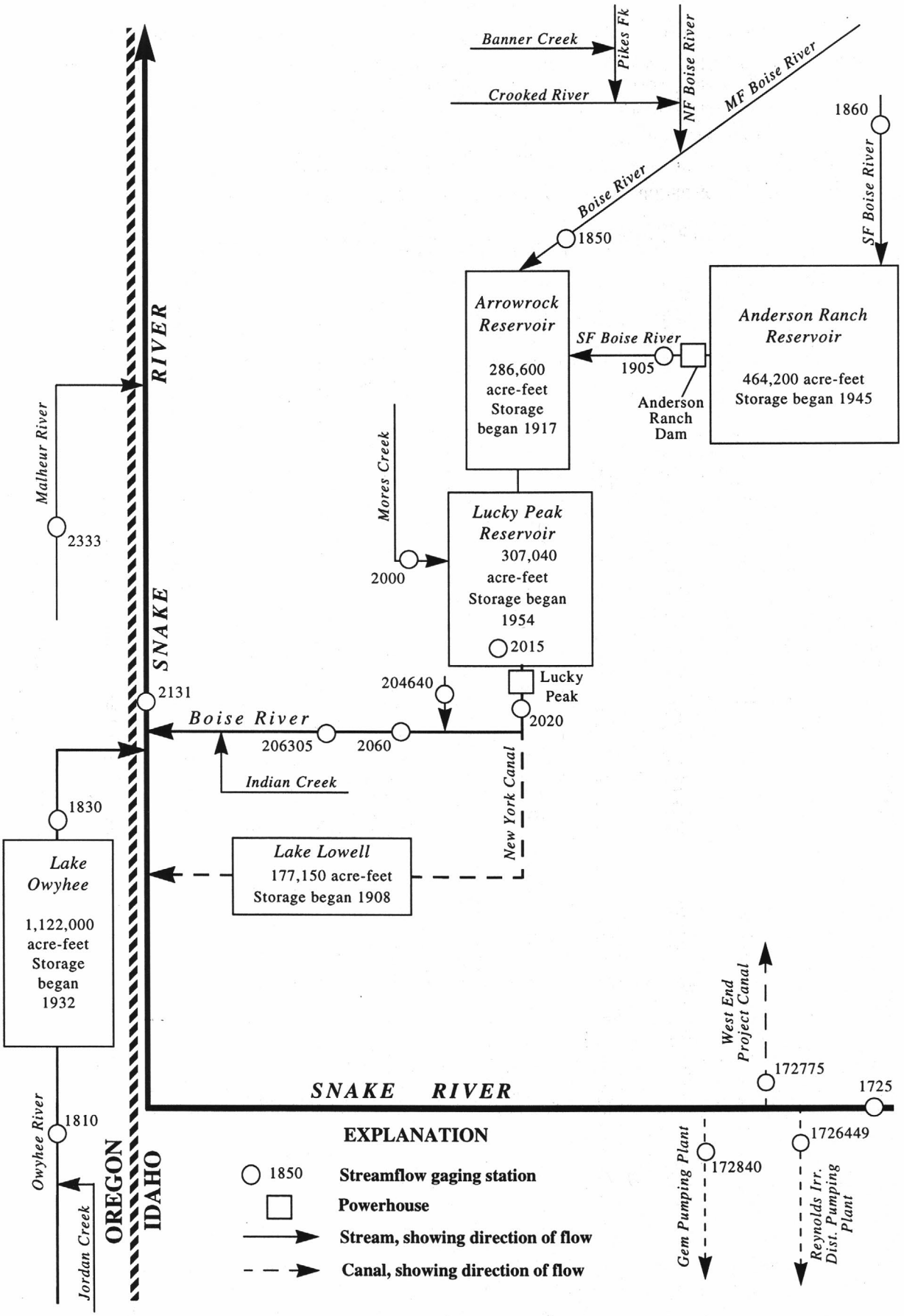


Figure 14. Schematic diagram showing gaging stations in Boise, Owyhee, Malheur, and middle Snake River basins.

DIVERSIONS FROM SNAKE RIVER
BETWEEN SNAKE RIVER NEAR MURPHY AND SNAKE RIVER AT NYSSA

131726449 REYNOLDS IRRIGATION DISTRICT PUMPING PLANT NEAR WALTERS FERRY, ID

LOCATION.--Lat 43°20'02", long 116°37'02", in NW¼SW¼ sec.18, T.1 S., R.2 W., Owyhee County, Hydrologic Unit 17050103, on left bank of Snake River, approximately 1 mi southwest of Walters Ferry.

PERIOD OF RECORD.--April to current year (irrigation seasons only).

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, 34 ft^3/s June 7, 2000; no flow for long periods.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	---	---	---	---	---	.00	29	28	31	28	31
2	30	---	---	---	---	---	.00	29	26	31	28	31
3	29	---	---	---	---	---	.00	29	29	31	28	30
4	27	---	---	---	---	---	.00	29	30	30	28	30
5	27	---	---	---	---	---	.00	28	30	30	28	31
6	27	---	---	---	---	---	.00	29	30	30	29	30
7	27	---	---	---	---	---	.00	29	31	29	29	30
8	9.4	---	---	---	---	---	.00	29	31	29	29	30
9	.00	---	---	---	---	---	.00	31	31	29	29	30
10	.00	---	---	---	---	---	.00	33	30	29	29	e32
11	.00	---	---	---	---	---	.00	33	31	29	30	e32
12	.00	---	---	---	---	---	4.2	33	30	29	30	e32
13	.00	---	---	---	---	---	11	e32	30	30	29	e32
14	.00	---	---	---	---	---	10	e32	31	30	29	30
15	.00	---	---	---	---	---	10	e32	31	30	30	29
16	.00	---	---	---	---	---	9.8	e32	31	30	30	30
17	.00	---	---	---	---	---	16	e30	31	30	30	31
18	.00	---	---	---	---	---	23	e28	30	30	30	31
19	.00	---	---	---	---	---	25	e28	30	30	30	24
20	e.00	---	---	---	---	---	25	e28	30	30	30	19
21	e.00	---	---	---	---	---	26	e28	30	30	30	19
22	e.00	---	---	---	---	---	25	28	30	30	30	20
23	e.00	---	---	---	---	---	25	28	30	30	30	19
24	e.00	---	---	---	---	---	24	28	e30	29	30	19
25	e.00	---	---	---	---	---	25	28	30	29	30	5.6
26	e.00	---	---	---	---	---	26	28	30	29	28	.00
27	e.00	---	---	---	---	---	26	28	e30	29	28	.00
28	e.00	---	---	---	---	---	27	28	e30	28	29	.00
29	e.00	---	---	---	---	---	27	28	e30	28	29	.00
30	e.00	---	---	---	---	---	29	29	30	29	30	.00
31	e.00	---	---	---	---	---	---	28	---	28	31	---
TOTAL	206.40	---	---	---	---	---	394.00	912	901	916	908	677.60
MEAN	6.66	---	---	---	---	---	13.1	29.4	30.0	29.5	29.3	22.6
MAX	30	---	---	---	---	---	29	33	31	31	31	32
MIN	.00	---	---	---	---	---	.00	28	26	28	28	.00
AC-FT	409	---	---	---	---	---	781	1810	1790	1820	1800	1340

e Estimated

DIVERSIONS FROM SNAKE RIVER
BETWEEN SNAKE RIVER NEAR MURPHY AND SNAKE RIVER AT NYSSA

13172775 WEST END PROJECT CANAL NEAR MELBA, ID

LOCATION.--Lat 43°25'45", long 116°42'19", in NE¼NW¼ sec.16, T.1 N., R.3 W., Canyon County, Givens Hot Springs Quad., Hydrologic Unit 17050103, on right bank of Snake River, approximately 1 mi north of Givens Hot Springs.

PERIOD OF RECORD.--April to September 2000 (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 2,720 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records poor. Canal carries water pumped from the Snake River.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 81 ft^3/s June 30, 2000; no flow for long periods.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	---	---	---	---	---	.00	12	30	42	23	14
2	26	---	---	---	---	---	1.7	10	27	51	24	6.3
3	30	---	---	---	---	---	2.6	12	19	50	35	17
4	26	---	---	---	---	---	3.7	19	30	54	31	18
5	19	---	---	---	---	---	2.9	15	31	51	23	16
6	19	---	---	---	---	---	.00	14	30	48	25	24
7	10	---	---	---	---	---	.00	16	28	47	22	24
8	.00	---	---	---	---	---	.00	13	30	39	25	18
9	19	---	---	---	---	---	.00	18	29	43	31	17
10	25	---	---	---	---	---	.00	16	25	42	35	18
11	21	---	---	---	---	---	.00	21	41	40	36	24
12	12	---	---	---	---	---	.00	18	39	26	28	19
13	4.1	---	---	---	---	---	3.2	18	37	20	25	15
14	.00	---	---	---	---	---	.00	23	34	18	25	10
15	.00	---	---	---	---	---	.00	18	39	16	29	6.3
16	.00	---	---	---	---	---	.00	17	43	30	29	5.1
17	5.2	---	---	---	---	---	.00	16	43	36	27	7.1
18	5.7	---	---	---	---	---	1.9	9.2	46	37	32	14
19	5.9	---	---	---	---	---	7.7	7.4	47	38	25	15
20	3.1	---	---	---	---	---	6.2	5.3	49	39	24	11
21	.00	---	---	---	---	---	4.4	19	53	28	23	16
22	.00	---	---	---	---	---	4.7	27	51	19	28	6.5
23	9.1	---	---	---	---	---	7.6	35	52	30	25	1.5
24	4.3	---	---	---	---	---	13	33	44	33	22	17
25	.00	---	---	---	---	---	20	31	41	27	14	18
26	.00	---	---	---	---	---	23	31	39	32	9.0	10
27	3.7	---	---	---	---	---	26	23	46	30	14	16
28	.00	---	---	---	---	---	18	30	46	33	17	14
29	.00	---	---	---	---	---	9.1	37	51	23	17	7.7
30	3.0	---	---	---	---	---	15	36	44	31	21	4.5
31	.00	---	---	---	---	---	---	36	---	26	24	---
TOTAL	268.10	---	---	---	---	---	170.70	635.9	1164	1079	768.0	410.0
MEAN	8.65	---	---	---	---	---	5.69	20.5	38.8	34.8	24.8	13.7
MAX	30	---	---	---	---	---	26	37	53	54	36	24
MIN	.00	---	---	---	---	---	.00	5.3	19	16	9.0	1.5
AC-FT	532	---	---	---	---	---	339	1260	2310	2140	1520	813

DIVERSIONS FROM SNAKE RIVER BETWEEN SNAKE RIVER NEAR MURPHY AND SNAKE RIVER AT NYSSA

13172840 GEM PUMPING PLANT NEAR MARSING, ID

LOCATION.--Lat 43°30'56", long 116°47'08", in NW¼NW¼ sec.14, T.2 S., R.4 W., Owyhee County, Hydrologic Unit 17050103, on left bank of Snake River, approximately 2 mi southeast of Marsing.

PERIOD OF RECORD.--April 1989 to current year (irrigation seasons only).

GAGE.--In-line flow sensor with datalogger.

REMARKS.--Records fair except for estimated daily discharges, which are poor. In-line flow sensor rated by ultrasonic flowmeter and current meter measurements.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 346 ft³/s Aug. 6, 2001; no flow for long periods each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e156	---	---	---	---	---	.00	260	261	299	307	e328
2	e154	---	---	---	---	---	.00	259	263	298	323	e329
3	e152	---	---	---	---	---	.00	259	265	298	345	e330
4	e152	---	---	---	---	---	.00	259	265	301	345	e330
5	e154	---	---	---	---	---	.00	261	267	310	345	e308
6	e128	---	---	---	---	---	.00	260	269	306	346	e286
7	e117	---	---	---	---	---	.00	261	265	304	e343	e295
8	e116	---	---	---	---	---	.00	259	260	305	e341	e240
9	e116	---	---	---	---	---	.00	260	261	305	e341	e239
10	e106	---	---	---	---	---	2.3	254	261	301	e341	e239
11	104	---	---	---	---	---	.00	251	289	287	e341	e239
12	103	---	---	---	---	---	.00	248	305	294	e340	e240
13	28	---	---	---	---	---	.00	247	275	297	e333	e275
14	.00	---	---	---	---	---	.00	250	e262	301	e329	e252
15	.00	---	---	---	---	---	.00	255	e302	301	329	e261
16	.00	---	---	---	---	---	e142	258	e300	296	327	e260
17	.00	---	---	---	---	---	e133	241	e297	299	326	e194
18	.00	---	---	---	---	---	e113	225	e302	302	e326	e189
19	.00	---	---	---	---	---	e113	225	302	302	e326	e190
20	.00	---	---	---	---	---	108	224	327	303	e323	e189
21	.00	---	---	---	---	---	129	223	333	304	e326	e189
22	.00	---	---	---	---	---	123	216	334	304	e327	e210
23	.00	---	---	---	---	---	e137	e215	336	305	329	e207
24	.00	---	---	---	---	---	e149	e248	337	306	330	e191
25	.00	---	---	---	---	---	193	e268	300	305	329	e187
26	.00	---	---	---	---	---	200	e269	297	305	331	e188
27	.00	---	---	---	---	---	232	e269	300	306	e330	e187
28	.00	---	---	---	---	---	e260	e269	296	305	e332	e185
29	.00	---	---	---	---	---	e262	e271	294	304	e329	182
30	.00	---	---	---	---	---	e257	270	295	304	330	186
31	.00	---	---	---	---	---	---	268	---	307	e329	---
TOTAL	1586.00	---	---	---	---	---	2553.30	7802	8720	9364	10299	7125
MEAN	51.2	---	---	---	---	---	85.1	252	291	302	332	238
MAX	156	---	---	---	---	---	262	271	337	310	346	330
MIN	.00	---	---	---	---	---	.00	215	260	287	307	182
AC-FT	3150	---	---	---	---	---	5060	15480	17300	18570	20430	14130

e Estimated

OWYHEE RIVER BASIN

13181000 OWYHEE RIVER NEAR ROME, OR

LOCATION.--Lat 42°52'02", long 117°38'52", in SE¼NE¼ sec.14, T.31 S., R.41 E., Malheur County, Oregon, Hydrologic Unit 17050107, on right bank 0.5 mi downstream from Jordan Creek, 2.6 mi north of Rome, and at mile 122.4.

DRAINAGE AREA.--8,000 mi^2, approximately.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,344.20 ft above sea level. Prior to Feb. 10, 1960, at datum 0.24 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Antelope Reservoir, capacity, 70,000 acre-ft, increased in 1970, and Wild Horse Reservoir, capacity, 32,690 acre-ft, and numerous small reservoirs. Diversions upstream from station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,700 ft^3/s Mar. 18, 1993, gage height, 20.11 ft; minimum, 42 ft^3/s Aug. 12, 1954, July 28, Aug. 5, 1961, July 31, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 22	1845	*8,580	*8.38	No other peak greater than base discharge.			

Minimum daily, 57 ft^3/s Aug. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	167	176	179	160	260	1320	974	231	131	100	66
2	105	166	172	173	187	255	1140	901	224	126	100	66
3	106	170	167	173	179	261	1000	788	221	120	102	62
4	108	172	161	166	188	247	912	749	211	117	102	64
5	108	172	159	169	205	261	886	722	210	113	99	65
6	108	168	166	167	214	506	863	688	208	105	106	75
7	108	164	162	167	230	843	834	647	206	99	98	72
8	108	163	165	167	219	1730	840	609	205	97	87	72
9	109	162	167	181	223	2160	786	587	203	111	79	71
10	127	163	e170	179	242	2150	798	542	190	129	77	74
11	134	162	e140	184	250	1950	766	524	211	130	76	73
12	150	158	e160	197	238	1490	754	471	230	143	77	75
13	177	154	188	203	222	1170	800	438	236	136	76	75
14	176	150	176	e200	220	1240	927	410	231	137	72	75
15	212	145	174	e170	217	1520	1180	391	233	136	70	76
16	192	142	175	e130	198	1430	1710	414	237	129	75	77
17	169	148	155	e85	201	1200	1650	435	225	126	74	82
18	160	154	e120	e130	195	1020	1330	393	226	117	71	82
19	152	131	e130	179	204	1070	1030	398	206	119	69	81
20	145	150	131	e160	309	2930	952	400	192	128	72	84
21	146	137	138	178	350	5160	1200	385	177	110	75	84
22	144	150	168	e170	393	7050	1440	375	171	106	72	88
23	141	154	173	e150	437	5120	1700	356	171	106	67	91
24	141	150	206	e160	413	4040	1520	342	158	104	66	91
25	142	161	206	182	364	3550	1330	328	150	103	63	94
26	150	162	198	190	340	2880	1240	310	154	102	63	101
27	156	159	183	e170	304	2450	1190	292	164	103	62	97
28	151	167	191	e170	278	1780	1130	270	158	101	58	93
29	155	168	179	180	---	2010	1110	259	150	96	58	89
30	153	171	175	176	---	2190	1070	250	143	95	57	88
31	161	---	177	170	---	1680	---	241	---	99	62	---
TOTAL	4401	4740	5208	5255	7180	61603	33408	14889	5932	3574	2385	2383
MEAN	142	158	168	170	256	1987	1114	480	198	115	76.9	79.4
MAX	212	172	206	203	437	7050	1710	974	237	143	106	101
MIN	105	131	120	85	160	247	754	241	143	95	57	62
AC-FT	8730	9400	10330	10420	14240	122200	66260	29530	11770	7090	4730	4730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2001, BY WATER YEAR (WY)

MEAN	163	215	383	680	1238	2505	2872	1989	890	256	152	138
MAX	442	593	2898	4461	8820	9404	16960	10470	4870	1035	452	361
(WY)	1976	1971	1965	1971	1986	1972	1952	1984	1984	1984	1984	1984
MIN	85.3	107	104	114	129	233	144	86.5	89.6	61.2	56.0	62.5
(WY)	1955	1955	1955	1955	1955	1977	1992	1992	1992	1968	1992	1955

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1950 - 2001	
ANNUAL TOTAL	169417		150958			
ANNUAL MEAN	463		414		954	
HIGHEST ANNUAL MEAN					3400	1984
LOWEST ANNUAL MEAN					162	1992
HIGHEST DAILY MEAN	3770	Apr 5	7050	Mar 22	46900	Mar 18 1993
LOWEST DAILY MEAN	63	Aug 26	57	Aug 30	44	Aug 1 1968
ANNUAL SEVEN-DAY MINIMUM	65	Aug 24	60	Aug 25	47	Jul 26 1968
ANNUAL RUNOFF (AC-FT)	336000		299400		691100	
10 PERCENT EXCEEDS	1390		1120		2520	
50 PERCENT EXCEEDS	176		170		234	
90 PERCENT EXCEEDS	93		77		108	

e Estimated

OWYHEE RIVER BASIN

13183000 OWYHEE RIVER BELOW OWYHEE DAM, OR

LOCATION.--Lat 43°39'17", long 117°15'16", in SE¼ sec.18, T.22 S., R.45 E., Malheur County, Oregon, Hydrologic Unit 17050110, on left bank 0.8 mi downstream from Owyhee Dam, 20 mi southwest of Nyssa, and at mile 27.3.

DRAINAGE AREA.--11,160 mi^2, approximately.

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

REVISED RECORDS.--WSP 983: 1941-42. WSP 1397: 1930, 1933, 1946.

GAGE.--Water-stage recorder. Datum of gage is 2,343.67 ft above sea level (levels by Bureau of Reclamation).

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated since October 1932 by Lake Owyhee (sta 13182500), and by many smaller reservoirs. Diversion of up to 457,000 acre-ft from Lake Owyhee during the year for irrigation of lands downstream from station and outside the basin. Many smaller diversions upstream from Lake Owyhee for irrigation upstream from station. Computation of monthly and annual adjusted flows discontinued in 1991.

AVERAGE DISCHARGE.--69 years (water years 1933-2001), 417 ft^3/s, 302,100 acre-ft/yr, not adjusted for storage or diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,900 ft^3/s Apr. 15, 1952, gage height, 15.70 ft; no flow for part of Aug. 8, 9, 1932, when temporary diversion tunnel at Owyhee Dam was closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 250 ft^3/s Oct. 12, gage height, 2.23 ft; minimum daily, 9.9 ft^3/s Oct. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	247	13	16	15	15	15	18	194	202	203	201	199
2	248	13	16	15	14	15	18	194	202	201	201	201
3	248	14	16	16	14	15	18	194	202	201	201	201
4	248	13	16	16	15	14	18	193	202	201	197	202
5	248	13	16	16	15	13	18	194	202	201	201	201
6	248	13	16	16	15	14	18	194	201	201	201	204
7	248	13	16	16	15	15	18	194	201	201	201	204
8	248	14	16	16	15	15	18	194	201	201	201	204
9	248	13	16	16	15	15	17	194	201	201	201	201
10	248	14	16	16	15	15	17	194	202	201	200	201
11	248	13	16	16	15	15	18	195	204	201	201	201
12	248	14	16	15	15	15	17	196	202	201	201	202
13	248	14	17	15	15	16	18	197	202	201	200	202
14	248	14	16	14	15	16	17	197	203	196	200	201
15	248	14	16	14	15	16	84	197	204	201	200	201
16	248	14	15	14	15	16	199	197	203	201	199	201
17	248	15	15	14	15	15	199	197	204	200	199	201
18	248	15	15	14	15	15	199	199	203	201	199	199
19	248	15	15	14	15	16	199	199	203	201	199	199
20	87	15	15	14	15	16	197	199	204	201	199	199
21	9.9	15	15	15	15	16	197	199	204	201	199	199
22	11	15	15	15	14	16	197	199	204	200	199	196
23	12	15	15	15	14	17	197	199	204	201	199	194
24	12	15	15	14	15	18	194	199	204	201	199	194
25	13	15	15	14	15	18	194	200	204	201	199	196
26	13	15	15	15	15	18	186	201	204	201	198	196
27	13	15	15	15	15	18	194	201	204	201	196	194
28	13	15	15	14	15	18	194	201	204	202	197	194
29	13	16	15	14	---	18	194	201	204	202	197	193
30	13	16	15	14	---	18	194	201	204	201	196	192
31	13	---	15	15	---	18	---	201	---	201	197	---
TOTAL	4933.9	428	481	462	416	495	3266	6114	6088	6228	6178	5972
MEAN	159	14.3	15.5	14.9	14.9	16.0	109	197	203	201	199	199
MAX	248	16	17	16	15	18	199	201	204	203	201	204
MIN	9.9	13	15	14	14	13	17	193	201	196	196	192
AC-FT	9790	849	954	916	825	982	6480	12130	12080	12350	12250	11850

CAL YR 2000 TOTAL 58331.3 MEAN 159 MAX 280 MIN 9.0 AC-FT 115700
WTR YR 2001 TOTAL 41061.9 MEAN 112 MAX 248 MIN 9.9 AC-FT 81450

BOISE RIVER BASIN

13185000 BOISE RIVER NEAR TWIN SPRINGS, ID

LOCATION.--Lat 43°39'33", long 115°43'34", in NW¼NE¼ sec.27, T.4 N., R.6 E., Boise County, Hydrologic Unit 17050112, Boise National Forest, on right bank 0.7 mi upstream from Birch Creek, 1.8 mi upstream from maximum flow line of Arrowrock Reservoir, 3.2 mi downstream from Twin Springs, 13 mi upstream from Arrowrock Dam, and at mile 88.5.

DRAINAGE AREA.--830 mi^2, approximately. Mean elevation, 6,350 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1911 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,255.70 ft above sea level. March 1911 to Apr. 3, 1915, nonrecording gage, and Apr. 4, 1915 to Sept. 30, 1965, water-stage recorder at site 0.3 mi downstream at datum 5.26 ft lower.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,800 ft^3/s Dec. 23, 1964, gage height, 12.20 ft, from floodmark (site and datum then in use); minimum, 105 ft^3/s Nov. 28, 1976, gage height, 2.64 ft; minimum gage height, 1.48 ft, Dec. 6, 7, 1960 (site and datum then in use).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	1545	*3,850	*6.56	No other peak greater than base discharge.			

Minimum daily, 238 ft^3/s Jan. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	307	464	386	e320	399	336	808	1650	1250	537	388	248
2	320	440	342	e320	388	405	820	1520	1230	519	344	245
3	311	417	365	321	385	383	739	1390	1190	504	325	244
4	310	417	378	387	381	378	733	1310	1180	491	320	243
5	309	433	355	e400	378	396	691	1330	1100	482	313	247
6	310	403	356	e380	363	408	686	1390	1010	477	305	323
7	310	366	360	e300	e320	450	682	1400	944	472	297	382
8	308	400	392	346	e260	509	661	1470	886	505	291	317
9	306	418	387	488	321	590	604	1630	866	501	287	300
10	312	404	e360	464	396	587	622	1730	871	553	298	290
11	369	389	e340	418	378	577	625	1770	869	581	290	294
12	439	358	335	427	360	554	625	1870	992	533	283	267
13	445	350	386	411	354	545	599	2300	909	496	282	277
14	397	385	405	398	347	548	581	2440	826	469	282	346
15	392	410	401	362	336	522	587	3290	772	482	284	304
16	372	347	333	268	364	535	620	3510	730	501	279	296
17	361	326	382	238	353	509	692	2850	705	486	272	303
18	355	308	e340	347	355	497	798	2400	689	458	264	294
19	351	e320	e300	e420	360	527	928	2190	671	448	260	280
20	348	361	e340	e400	370	679	979	2030	658	e440	260	268
21	458	381	e400	e380	374	788	965	1870	654	431	259	265
22	448	402	422	397	381	806	944	1770	640	420	258	261
23	390	367	406	380	371	823	927	1800	630	412	260	258
24	374	405	409	380	366	877	909	1920	626	402	261	254
25	365	388	363	394	367	998	994	2040	605	381	259	252
26	365	405	288	373	351	1030	1240	2110	601	358	256	259
27	410	416	e320	336	327	886	1610	2010	583	351	251	259
28	395	376	e340	e260	326	842	1940	1820	608	346	247	254
29	544	352	e340	e280	---	793	1810	1640	575	343	247	252
30	543	434	e340	372	---	777	1630	1450	550	368	248	252
31	485	---	e340	399	---	756	---	1310	---	474	248	---
TOTAL	11709	11642	11211	11366	10031	19311	27049	59210	24420	14221	8718	8334
MEAN	378	388	362	367	358	623	902	1910	814	459	281	278
MAX	544	464	422	488	399	1030	1940	3510	1250	581	388	382
MIN	306	308	288	238	260	336	581	1310	550	343	247	243
AC-FT	23220	23090	22240	22540	19900	38300	53650	117400	48440	28210	17290	16530
CFSM	.46	.47	.44	.44	.43	.75	1.09	2.30	.98	.55	.34	.33
IN.	.52	.52	.50	.51	.45	.87	1.21	2.65	1.09	.64	.39	.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2001, BY WATER YEAR (WY)

MEAN	389	442	478	462	522	859	2135	3737	3314	1205	466	369
MAX	699	1099	1748	2076	1474	2627	5658	6737	6804	2975	892	584
(WY)	1960	1928	1965	1997	1986	1986	1943	1958	1974	1943	1965	1965
MIN	246	263	265	265	283	326	717	782	672	321	224	223
(WY)	1989	1937	1936	1919	1920	1977	1977	1977	1992	1924	1934	1934

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1911 - 2001	
ANNUAL TOTAL	388278		217222			
ANNUAL MEAN	1061		595		1197	
HIGHEST ANNUAL MEAN					2091	1997
LOWEST ANNUAL MEAN					442	1977
HIGHEST DAILY MEAN	4610	May 25	3510	May 16	15400	Dec 23 1964
LOWEST DAILY MEAN	208	Jan 29	238	Jan 17	123	Nov 28 1976
ANNUAL SEVEN-DAY MINIMUM	293	Aug 25	246	Aug 29	183	Dec 8 1932
ANNUAL RUNOFF (AC-FT)	770100		430900		867300	
ANNUAL RUNOFF (CFSM)	1.28		.72		1.44	
ANNUAL RUNOFF (INCHES)	17.40		9.74		19.60	
10 PERCENT EXCEEDS	3020		1240		3280	
50 PERCENT EXCEEDS	488		398		512	
90 PERCENT EXCEEDS	313		275		300	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1958 to September 1959, November 1974 to November 1980, November 1990 to September 1991, November 1993 to September 1994, May to June 1995, May to June 1996, April to September 1997, June to August 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August to September 1997, June to August 1998, August to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 24.1 °C Aug. 1-2, 2000.

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles.
MESH SIZE.--425 um.

AVERAGE DEPTH.--0.61 m.

AVERAGE PERCENT SHADING.--27.

AVERAGE VELOCITY.-- 0.84 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--4-5.

PERCENT FINES AVERAGE.--6.

BIOLOGICAL DATA, SEPTEMBER 2000
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE Sept. 6	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION
NON-INSECTS			
Kincaidiana hexatheca		4	0.13
Acari		4	0.13
EPHEMEROPTERA			
Acentrella insignificans		172	5.66
Baetis tricaudatus		264	8.68
Drunella doddsi		32	1.05
Drunella grandis		68	2.24
Ephemerella inermis/infrequens		100	3.29
Rhithrogena		64	2.11
PLECOPTERA			
Calineuria californica		52	1.71
Claassenia sabulosa		8	0.26
Isoperla		16	0.53
Skwala		8	0.26
Pteronarcys californica		4	0.13
TRICHOPTERA			
Brachycentrus occidentalis		92	3.03
Glossosoma		44	1.45
Protoptila		12	0.39
Arctopsyche grandis		4	0.13
Cheumatopsyche		48	1.58
Hydropsyche		1236	40.66
Lepidostoma-sand case larvae		204	6.71
Oecetis		16	0.53
Psychomyia		24	0.79
Rhyacophila Coloradensis group		4	0.13
LEPIDOPTERA			
Petrophila		24	0.79
COLEOPTERA			
Optioservus		64	2.11
Zaitzevia		104	3.42
DIPTERA			
Atherix		4	0.13
Simulium		144	4.74
Antocha		16	0.53
Hexatoma		12	0.39
CHIRONOMIDAE			
Chironomidae-pupae		24	0.79
Cardiocladius		4	0.13
Cricotopus		4	0.13
Eukiefferiella		20	0.66
Lopescladius		16	0.53
Micropsectra		8	0.26
Microtendipes		4	0.13
Orthocladius Complex		64	2.11
Polypedilum		8	0.26
Rheotanytarsus		8	0.26
Thienemannimyia group		12	0.39
Tvetenia Discoloripes group		20	0.66

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 42
TOTAL INDIVIDUALS 3,040

BOISE RIVER BASIN

13186000 SOUTH FORK BOISE RIVER NEAR FEATHERVILLE, ID

LOCATION.--Lat 43°29'40", long 115°18'20", in lot 6, NE¼ sec.19, T.2 N., R.10 E., Elmore County, Hydrologic Unit 17050113, on right bank, 2.5 mi upstream from Deer Creek, 8 mi southwest of Featherville, and at mile 59.0.

DRAINAGE AREA.--635 mi^2. Mean elevation, 6,840 ft.

PERIOD OF RECORD.--April 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,218.56 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. No regulation. Diversions above station for irrigation of about 450 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,030 ft^3/s May 17, 1997, gage height, 7.74 ft; maximum gage height, 7.87 ft, May 30, 1983; minimum discharge, 30 ft^3/s Feb. 10, 1949, gage height, 0.60 ft, result of snowslide upstream.

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 16	1000	*1,820	*4.04	No peaks greater than base discharge.			

Minimum daily, 100 ft^3/s Sept. 2-4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	275	209	190	204	175	450	885	727	249	172	102
2	208	257	177	186	204	202	463	821	704	237	157	100
3	205	243	169	184	211	214	415	758	681	227	146	100
4	202	250	185	196	207	203	408	725	670	220	143	100
5	203	257	188	208	206	218	390	736	623	217	139	104
6	202	231	195	209	196	212	382	765	583	212	135	125
7	202	209	201	195	e180	222	381	768	547	210	130	148
8	202	232	211	182	e160	241	368	802	517	230	127	140
9	201	243	218	212	165	278	333	903	498	232	125	135
10	211	237	214	232	191	284	338	958	487	265	131	131
11	298	236	190	226	207	285	351	983	473	248	127	127
12	299	203	183	228	202	280	346	1040	526	226	123	125
13	292	218	202	226	194	287	328	1240	490	216	122	138
14	262	229	233	217	186	292	315	1300	456	205	121	161
15	253	229	229	190	181	275	316	1640	428	203	124	145
16	245	194	198	164	201	282	328	1770	408	202	123	139
17	240	172	207	e160	197	272	360	1550	389	196	119	144
18	236	143	e190	191	197	267	419	1360	378	190	115	150
19	232	e160	180	224	198	286	485	1270	366	183	112	142
20	230	e220	194	219	201	351	518	1180	352	181	112	133
21	263	204	238	216	201	395	508	1110	334	173	112	130
22	257	215	237	213	203	418	485	1050	322	168	112	128
23	240	187	236	213	199	429	480	1060	312	163	113	127
24	234	222	235	210	194	455	502	1110	304	160	112	125
25	232	208	199	217	188	509	572	1170	290	155	109	124
26	236	236	161	205	184	516	698	1210	294	149	107	128
27	285	244	e180	195	169	465	845	1110	282	145	104	130
28	273	211	e190	e170	166	451	1010	1050	289	143	102	128
29	340	191	202	e180	---	437	950	962	274	139	101	128
30	334	236	206	201	---	439	866	850	259	150	101	127
31	295	---	200	206	---	435	---	764	---	188	103	---
TOTAL	7615	6592	6257	6265	5392	10075	14610	32900	13263	6082	3779	3864
MEAN	246	220	202	202	193	325	487	1061	442	196	122	129
MAX	340	275	238	232	211	516	1010	1770	727	265	172	161
MIN	201	143	161	160	160	175	315	725	259	139	101	100
AC-FT	15100	13080	12410	12430	10700	19980	28980	65260	26310	12060	7500	7660
CFSM	.39	.35	.32	.32	.30	.51	.77	1.67	.70	.31	.19	.20
IN.	.45	.39	.37	.37	.32	.59	.86	1.93	.78	.36	.22	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2001, BY WATER YEAR (WY)

MEAN	241	251	244	246	258	404	1258	2605	2356	784	293	230
MAX	366	433	682	751	443	1244	2594	4875	4801	1951	643	396
(WY)	1984	1984	1965	1997	1986	1986	1969	1958	1965	1975	1965	1965
MIN	140	140	142	133	159	192	345	420	329	160	106	104
(WY)	1993	1995	1993	1993	1993	1955	1977	1977	1992	1992	1992	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1945 - 2001	
ANNUAL TOTAL	213837		116694			
ANNUAL MEAN	584		320		767	
HIGHEST ANNUAL MEAN					1369	1965
LOWEST ANNUAL MEAN					254	1977
HIGHEST DAILY MEAN	3080	May 25	1770	May 16	7870	May 17 1997
LOWEST DAILY MEAN	143	Nov 18	100	Sep 2	80	Jan 1 1995
ANNUAL SEVEN-DAY MINIMUM	168	Aug 25	101	Aug 29	95	Aug 28 1994
ANNUAL RUNOFF (AC-FT)	424100		231500		555900	
ANNUAL RUNOFF (CFSM)	.92		.50		1.21	
ANNUAL RUNOFF (INCHES)	12.53		6.84		16.42	
10 PERCENT EXCEEDS	1700		712		2240	
50 PERCENT EXCEEDS	260		216		293	
90 PERCENT EXCEEDS	191		128		180	

e Estimated

BOISE RIVER BASIN

13190500 SOUTH FORK BOISE RIVER AT ANDERSON RANCH DAM, ID

LOCATION.--Lat 43°20'30", long 115°28'40", in NW¼ sec.14, T.1 S., R.8 E., Elmore County, Hydrologic Unit 17050113, Boise National Forest, on right bank 600 ft upstream from Dixie Creek, 1.8 mi downstream from Anderson Ranch, 2.2 mi northwest of Bennett, and at mile 41.5.

DRAINAGE AREA.--982 mi^2.

PERIOD OF RECORD.--April 1943 to current year (includes flow of Dixie Creek prior to October 1946).

GAGE.--Water-stage recorder. Datum of gage is 3,830.0 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Anderson Ranch Reservoir, 1.8 mi upstream (see sta 13190000) beginning Dec. 15, 1945. Flow of Little Camas Creek is stored in Little Camas Reservoir, capacity, 22,300 acre-ft, no spill most years, and diverted out of basin through Little Camas Canal for irrigation of about 5,000 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,850 ft^3/s May 25, 1956, gage height, 10.56 ft; minimum, 0.10 ft^3/s Nov. 13, 1959; minimum gage height, 0.99 ft, Feb. 16, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,620 ft^3/s May 29; minimum daily, 279 ft^3/s Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	295	297	286	301	298	299	607	1600	1590	1260	653	330
2	295	291	290	300	300	297	605	1590	1590	1270	653	330
3	295	292	298	300	299	299	600	1590	1590	1260	653	331
4	296	289	298	297	298	298	601	1600	1590	1250	653	330
5	294	290	292	296	298	299	609	1600	1590	1260	653	331
6	294	291	293	297	300	303	605	1600	1590	1260	654	333
7	296	289	293	299	301	301	600	1600	1590	1260	652	334
8	293	293	293	301	304	301	607	1600	1590	1260	665	333
9	293	294	300	291	303	293	595	1600	1590	1070	662	331
10	295	295	308	287	296	297	806	1600	1590	856	661	334
11	296	295	299	296	297	303	982	1600	1590	666	655	332
12	297	296	299	299	299	302	1200	1600	1590	662	658	330
13	292	292	297	299	297	303	1400	1590	1590	661	672	332
14	291	293	296	297	319	304	1470	1600	1590	659	659	326
15	291	296	297	296	298	301	1450	1600	1530	660	657	329
16	289	294	297	296	302	302	1490	1600	1540	663	660	320
17	290	294	298	301	301	301	1600	1600	1530	671	652	318
18	287	292	296	301	301	301	1600	1600	1530	667	656	316
19	285	288	299	297	299	301	1600	1590	1520	662	672	317
20	286	288	302	295	301	300	1600	1600	1520	651	664	317
21	288	287	302	294	307	302	1600	1600	1530	653	645	304
22	288	286	301	293	303	302	1590	1600	1530	655	652	290
23	288	287	301	303	302	298	1460	1600	1540	656	661	290
24	295	288	301	308	302	300	1460	1600	1540	660	663	288
25	302	287	302	299	299	300	1600	1600	1560	658	655	288
26	301	288	301	298	303	398	1600	1600	1550	656	660	286
27	300	287	300	300	301	600	1600	1600	1580	655	652	287
28	298	287	301	300	304	609	1600	1600	1380	655	498	287
29	300	290	301	301	---	603	1600	1620	1270	654	340	282
30	300	287	301	301	---	601	1600	1600	1260	655	332	279
31	299	---	301	300	---	602	---	1600	---	655	329	---
TOTAL	9109	8723	9243	9243	8432	10920	36337	49580	46170	25840	19251	9435
MEAN	294	291	298	298	301	352	1211	1599	1539	834	621	314
MAX	302	297	308	308	319	609	1600	1620	1590	1270	672	334
MIN	285	286	286	287	296	293	595	1590	1260	651	329	279
AC-FT	18070	17300	18330	18330	16720	21660	72070	98340	91580	51250	38180	18710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2001, BY WATER YEAR (WY)

MEAN	389	405	518	549	603	691	1122	2118	2354	1509	1042	608
MAX	1183	1504	1556	1531	3002	2996	3795	4820	5171	2546	1862	1741
(WY)	1953	1984	1984	1984	1997	1997	1946	1943	1983	1950	1948	1952
MIN	1.46	1.32	1.26	1.30	1.57	3.19	5.84	3.37	572	628	62.6	41.7
(WY)	1949	1949	1950	1949	1950	1950	1962	1962	1955	1944	1950	1949

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1943 - 2001	
ANNUAL TOTAL	310841		242283			
ANNUAL MEAN	849		664		988	
HIGHEST ANNUAL MEAN					1735	1997
LOWEST ANNUAL MEAN					411	1992
HIGHEST DAILY MEAN	2130	Jun 6	1620	May 29	9770	May 25 1956
LOWEST DAILY MEAN	285	Oct 19	279	Sep 30	.70	Sep 21 1950
ANNUAL SEVEN-DAY MINIMUM	287	Nov 21	285	Sep 24	.76	Sep 18 1950
ANNUAL RUNOFF (AC-FT)	616600		480600		715600	
10 PERCENT EXCEEDS	1610		1600		2270	
50 PERCENT EXCEEDS	578		307		605	
90 PERCENT EXCEEDS	291		291		180	

13200000 MORES CREEK ABOVE ROBIE CREEK, NEAR ARROWROCK DAM, ID

LOCATION.--Lat 43°38'53", long 115°59'20", in SE¼SW¼ sec.28, T.4 N., R.4 E., Boise County, Hydrologic Unit 17050112, on left bank, 1.7 mi upstream from Robie Creek, 5.0 mi northwest of Arrowrock Dam, and at mile 5.8.

DRAINAGE AREA.--399 mi^2.

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1958, published as "Moore Creek above Robie Creek, near Arrowrock", and October 1958 to September 1962, published as "near Arrowrock".

GAGE.--Water-stage recorder. Elevation of gage is 3,120 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Small diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,440 ft^3/s Dec. 23, 1955, gage height, 9.55 ft; minimum, 3.5 ft^3/s Aug. 29, 30, 1994, gage height, 1.80 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 25	2045	*503	*3.87

No peaks greater than base discharge.

Minimum, 6.1 ft^3/s Sept. 9, gage height, 1.48 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	92	78	e70	e70	81	318	318	125	44	27	9.3
2	38	85	69	e70	e70	105	314	289	115	40	24	9.5
3	38	78	88	e70	e70	85	283	265	114	38	20	9.4
4	39	75	90	e70	e75	97	259	252	128	34	17	9.9
5	39	80	89	e70	e85	105	240	247	131	32	15	10
6	39	76	83	e65	e80	110	230	247	128	30	15	10
7	40	67	77	e60	e75	130	237	239	116	30	14	10
8	40	73	82	e65	e60	156	232	241	105	33	13	10
9	40	78	77	e75	e75	224	205	247	96	31	13	14
10	41	75	72	e70	e80	225	204	248	92	31	14	19
11	51	70	66	e70	e80	216	206	245	85	37	14	18
12	82	56	e60	e70	e80	202	209	247	98	37	13	17
13	98	65	e65	e70	e80	200	201	261	97	32	12	19
14	73	81	79	e70	e80	200	193	264	88	29	12	24
15	67	76	80	e65	e80	185	191	343	83	28	12	25
16	63	54	e70	e55	e80	185	196	362	76	30	12	24
17	60	64	e75	e60	e80	177	216	319	72	32	11	24
18	58	e75	e65	e70	e80	173	246	286	68	30	11	23
19	57	81	e65	e75	96	197	277	265	65	28	11	21
20	56	e85	e70	e70	92	266	283	246	61	27	10	21
21	93	e85	e75	e70	92	307	278	229	58	26	10	20
22	93	e85	e80	e70	96	322	275	216	54	24	10	19
23	74	e85	e80	e70	94	329	259	206	51	23	10	19
24	69	e85	e80	e70	93	353	258	198	48	22	11	18
25	67	e85	e75	e70	91	420	277	189	46	20	11	18
26	70	e85	e70	e70	84	433	321	182	47	18	11	19
27	99	89	e75	e65	80	352	363	175	46	17	11	20
28	88	84	e70	e55	78	333	381	162	61	16	10	20
29	141	83	e75	e60	---	325	349	150	56	15	10	20
30	135	85	e75	e65	---	310	319	142	48	16	9.9	21
31	105	---	e70	e70	---	292	---	133	---	21	9.8	---
TOTAL	2090	2337	2325	2095	2276	7095	7820	7413	2458	871	403.7	521.1
MEAN	67.4	77.9	75.0	67.6	81.3	229	261	239	81.9	28.1	13.0	17.4
MAX	141	92	90	75	96	433	381	362	131	44	27	25
MIN	37	54	60	55	60	81	191	133	46	15	9.8	9.3
AC-FT	4150	4640	4610	4160	4510	14070	15510	14700	4880	1730	801	1030
CFSM	.17	.20	.19	.17	.20	.57	.65	.60	.21	.07	.03	.04
IN.	.19	.22	.22	.20	.21	.66	.73	.69	.23	.08	.04	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2001, BY WATER YEAR (WY)

MEAN	61.3	90.1	134	160	238	488	904	773	415	110	41.7	41.5
MAX	108	169	676	833	912	1481	2183	1486	845	251	92.0	86.6
(WY)	1952	1971	1965	1997	1986	1986	1952	1983	1975	1983	1983	1986
MIN	25.5	37.9	42.4	45.1	57.8	88.8	127	125	49.9	18.7	5.66	8.83
(WY)	1995	1995	1995	1977	1993	1977	1977	1977	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951 - 2001	
ANNUAL TOTAL	80837		37704.8			
ANNUAL MEAN	221		103		288	
HIGHEST ANNUAL MEAN					560	1965
LOWEST ANNUAL MEAN					66.2	1977
HIGHEST DAILY MEAN	1160	Apr 14	433	Mar 26	4520	Dec 23 1964
LOWEST DAILY MEAN	19	Aug 15	9.3	Sep 1	4.1	Aug 30 1994
ANNUAL SEVEN-DAY MINIMUM	20	Aug 25	9.7	Aug 29	4.4	Aug 16 1994
ANNUAL RUNOFF (AC-FT)	160300		74790		208400	
ANNUAL RUNOFF (CFSM)	.55		.26		.72	
ANNUAL RUNOFF (INCHES)	7.54		3.52		9.80	
10 PERCENT EXCEEDS	608		259		832	
50 PERCENT EXCEEDS	98		75		109	
90 PERCENT EXCEEDS	29		15		35	

e Estimated

BOISE RIVER BASIN

13201500 LUCKY PEAK LAKE NEAR BOISE, ID

LOCATION.--Lat 43°31'31", long 116°03'15", in SW¼NW¼ sec.12, T.2 N., R.3 E., Ada County, Hydrologic Unit 17050112, at outlet control tower at Lucky Peak Dam on Boise River, 2 mi upstream from diversion dam for New York Canal, 7 mi downstream from Mores Creek, 9 mi southeast of Boise, and at mile 63.8.

DRAINAGE AREA.--2,680 mi^2, approximately.

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level, (levels by U.S. Corps of Engineers). Prior to May 13, 1955, nonrecording gage at same site and datum.

REMARKS.--Station equipment includes satellite telemetry. Reservoir is formed by earthfill dam. Storage began Oct. 16, 1954. Dam completed in February 1955. Capacity, 307,040 acre-ft between elevations 2,827.0 ft, sill of outlet gates, and 3,060.0 ft, spillway crest. Minimum proposed operating level, 2,905.0 ft, 28,770 acre-ft, but all storage can be released. Water is stored for flood control, irrigation of lands in Boise Valley, and hydro-electric power.

COOPERATION.--Gage-height record and capacity table provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 305,130 acre-ft June 25, 1955, elevation, 3,059.32 ft; minimum since near-full capacity was attained on June 25, 1955, 28,630 acre-ft Dec. 21, 1961, elevation, 2,904.83 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 293,600 acre-ft July 1, elevation, 3,055.18 ft; minimum contents, 60,900 acre-ft Oct. 13, elevation, 2,936.98 ft.

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

2,930.0	52,700	3,000.0	162,800
2,940.0	64,600	3,020.0	205,600
2,960.0	92,400	3,040.0	253,600
2,980.0	125,100	3,060.0	307,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101700	87100	100700	103900	106800	110500	161400	225900	292900	293400	283100	e135600
2	97000	88600	100800	104100	106800	111300	163600	232700	292900	292700	279200	131200
3	92400	90200	100800	104200	106900	112200	164800	240100	292800	292700	275300	126700
4	87900	91700	100900	104400	107000	113100	167200	247900	293000	292900	271400	122200
5	84100	93200	101000	104500	107000	114000	169700	255400	292900	293000	267600	118100
6	80500	94600	101000	104700	107000	114900	172100	262600	292900	293000	262500	114300
7	77400	95900	101000	104800	107100	115900	174600	269500	292800	293000	256500	110500
8	73600	97300	101100	104900	107100	116800	177100	276300	292800	292800	250700	106700
9	70000	98600	101200	105100	107100	118000	179300	278700	292700	292500	e244600	103000
10	66700	99900	101300	105400	107200	119200	181300	277800	292500	292500	238600	101500
11	63500	101200	101400	105500	107300	120300	183200	281300	292200	292400	e232800	100400
12	61100	102400	101400	105600	107400	121400	185000	286500	292100	292700	e227100	99400
13	62100	102600	101500	105800	107400	122700	186800	291500	292500	293000	e221300	98400
14	64100	102300	101600	105900	107500	124200	188500	293400	292800	293200	e215600	97400
15	65900	102000	101800	106000	107600	125600	190300	293300	292900	293100	209800	96300
16	67300	101700	101900	106000	107600	127000	190900	292900	292800	292800	205100	95300
17	68300	101200	101900	106000	107700	128400	190900	292600	292500	293000	200400	94300
18	69600	100900	102000	106100	107800	129900	191000	292400	292400	293200	195900	93400
19	70900	100600	102000	106300	107900	131300	191500	292300	292300	293100	191500	92400
20	72100	100300	102100	106400	108100	132900	191900	292200	292500	292600	187100	91500
21	73300	99900	102200	106600	108300	135000	192400	292100	293000	291900	182800	90600
22	74500	100000	102400	106700	108400	137400	192800	292200	292900	290900	178500	89700
23	75700	100100	102600	106700	108500	139900	193000	292500	292200	290800	174300	88800
24	76800	100200	102800	106800	108700	141500	193200	292800	291500	291700	170100	87900
25	77900	100200	103000	106800	108800	144200	193600	292800	291600	292400	165800	86900
26	79000	100300	103100	106800	108900	146800	198000	292800	292200	291900	161700	86000
27	80200	100300	103200	106800	109100	149500	202800	292800	292900	292100	157500	85800
28	81400	100400	103300	106800	109600	151900	207700	292800	293300	292900	153200	86000
29	82700	100500	103400	106700	---	154400	212600	292900	293400	293200	148800	86300
30	84000	100600	103600	106800	---	156700	218800	293000	293500	290800	144400	86500
31	85400	---	103700	106800	---	159100	---	293000	---	287000	e140000	---
MAX	101700	102600	103700	106800	109600	159100	218800	293400	293500	293400	283100	135600
MIN	61100	87100	100700	103900	106800	110500	161400	225900	291500	287000	140000	85800
†	2955.32	2965.32	2967.29	2969.17	2970.90	2998.17	3025.73	3054.95	3055.14	3052.74	---	2956.03
‡	-21000	15200	3100	3100	2800	49500	59700	74200	500	-6500	-147000	-53500

CAL YR 2000 ‡ 400
WTR YR 2001 ‡ -19900

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

BOISE RIVER BASIN

13202000 BOISE RIVER NEAR BOISE, ID

LOCATION.--Lat 43°31'40", long 116°03'31", in NE¼ sec.11, T.2 N., R.3 E., Ada County, Hydrologic Unit 17050112, at gate-control house at outlet works of Lucky Peak Lake, 1.8 mi upstream from diversion dam for New York Canal, 7.5 mi downstream from mouth of Mores Creek, 9 mi southeast of Boise, and at mile 63.6.

DRAINAGE AREA.--2,680 mi^2, approximately. Mean elevation, 5,910 ft.

PERIOD OF RECORD.--January 1895 to September 1916 (no winter records 1904-05, 1907), November 1950 to September 1954 (discharge measurements only), October 1954 to current year. Published as "near Highland" 1905-15 and as "below Moore Creek, near Arrowrock" 1916.

REVISED RECORDS.--WSP 1347: 1895-1901, 1904.

GAGE.--None. See WDR ID-87-1 for history of changes prior to October 1, 1987.

REMARKS.--Flow regulated by Lucky Peak Lake, Arrowrock Reservoir, and Anderson Ranch Reservoir. Diversions above station for irrigation of about 2,300 acres in the basin, and about 5,000 acres outside the basin near Mountain Home (1966 determination).

COOPERATION.--Discharge record provided by Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed (1895-1916), prior to regulation, 35,500 ft^3/s June 14, 1896; minimum observed, 432 ft^3/s Nov. 14, 1915. Maximum discharge since construction of Lucky Peak Dam in 1955, 13,200 ft^3/s June 13-15, 1983; no flow on several days in 1954, 1955, 1957-59, 1961, 1969, 1974, 1978, 1980, 1982, 1984-86, 1989 when gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,420 ft^3/s June 24; minimum daily, 228 ft^3/s Nov. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3230	244	244	246	245	246	291	2760	3200	3130	3080	3000
2	3170	244	245	245	246	244	384	2820	3200	3120	3080	3000
3	3140	244	244	245	245	245	790	2840	3200	3100	3070	3000
4	3050	243	245	246	246	245	434	2860	3200	3130	3080	2980
5	2710	243	243	245	245	245	459	2850	3200	3130	3080	2820
6	2600	243	244	245	245	244	459	2850	3200	3110	3080	2720
7	2550	228	244	244	246	243	462	2970	3200	3100	3120	2690
8	2530	241	244	245	245	244	462	3030	3200	3100	3080	2680
9	2520	244	243	246	244	244	560	3090	3210	3100	3070	2680
10	2510	243	244	245	245	244	640	3120	3210	3100	3070	1020
11	2450	244	244	246	246	244	655	3140	3300	3100	3070	629
12	2120	244	244	244	246	244	654	3180	3330	3100	3080	603
13	597	244	243	245	245	244	656	3200	3310	3100	3070	604
14	351	244	243	244	244	244	659	3220	3300	3100	3080	605
15	351	244	243	245	245	245	655	3230	3300	3100	3080	605
16	320	246	243	245	245	245	1250	3220	3300	3100	3080	605
17	303	245	244	246	245	245	1620	3220	3300	3090	3080	565
18	261	245	244	245	245	244	1650	3220	3290	3080	3080	529
19	242	244	244	247	244	243	1650	3230	3280	3060	3080	529
20	242	245	243	247	244	243	1650	3230	3260	3040	3070	529
21	241	243	244	247	246	244	1650	3210	3260	3030	3080	512
22	243	241	245	248	245	244	1650	3200	3320	3020	3080	503
23	243	244	245	246	246	242	1770	3210	3400	3030	3080	502
24	242	245	244	248	245	243	1920	3200	3420	3020	3080	503
25	244	243	244	247	246	245	2020	3200	3390	3040	3070	504
26	242	244	245	246	244	243	2290	3200	3360	3020	3080	503
27	242	242	245	248	246	243	2530	3200	3350	3020	3080	504
28	244	243	244	247	246	244	2620	3200	3330	3020	3070	503
29	242	245	246	245	---	244	2630	3200	3330	3030	3080	503
30	244	243	245	245	---	240	2680	3160	3190	3060	3020	502
31	243	---	244	245	---	239	---	3200	---	3080	3000	---
TOTAL	37917	7295	7566	7618	6865	7556	37800	96460	98340	95360	95300	37432
MEAN	1223	243	244	246	245	244	1260	3112	3278	3076	3074	1248
MAX	3230	246	246	248	246	246	2680	3230	3420	3130	3120	3000
MIN	241	228	243	244	244	239	291	2760	3190	3020	3000	502
AC-FT	75210	14470	15010	15110	13620	14990	74980	191300	195100	189100	189000	74250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 1916, BY WATER YEAR (WY) (UNREGULATED)

MEAN	969	1151	1111	1238	1299	2951	6377	8150	7913	2992	1185	970
MAX	1349	3343	2309	2590	1979	9144	11220	13360	24400	6218	2655	2094
(WY)	1900	1910	1899	1899	1909	1910	1907	1904	1896	1896	1916	1916
MIN	683	509	539	660	925	1388	2823	2023	3186	1272	643	578
(WY)	1907	1916	1916	1898	1913	1915	1915	1915	1915	1905	1905	1905

SUMMARY STATISTICS	[a] WATER YEARS 1895 - 1916	
ANNUAL MEAN	3038	
HIGHEST ANNUAL MEAN	4510	1896
LOWEST ANNUAL MEAN	1627	1915
HIGHEST DAILY MEAN	35500	Jun 14 1896
LOWEST DAILY MEAN	432	Nov 14 1915
ANNUAL SEVEN-DAY MINIMUM	482	Nov 10 1915
ANNUAL RUNOFF (AC-FT)	2201000	
10 PERCENT EXCEEDS	8150	
50 PERCENT EXCEEDS	1340	
90 PERCENT EXCEEDS	812	

BOISE RIVER BASIN

13202000 BOISE RIVER NEAR BOISE, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2001, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	967	207	347	677	1513	2363	4275	6178	5562	4598	4015	2958
MAX	2246	1448	1756	6008	7009	7565	8940	10830	10540	6034	4752	4469
(WY)	1985	1987	1996	1997	1997	1997	1997	1965	1983	1982	1963	1984
MIN	63.0	.000	.000	.000	.000	90.0	622	2797	3147	2795	1056	403
(WY)	1962	1955	1955	1955	1961	1977	1955	1991	1990	1992	1992	1992

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		[b] WATER YEARS 1955 - 2001	
ANNUAL TOTAL	878138		535509			
ANNUAL MEAN	2399		1467		2810	
HIGHEST ANNUAL MEAN					4914	1997
LOWEST ANNUAL MEAN					1137	1992
HIGHEST DAILY MEAN	5510	Apr 29	3420	Jun 24	13200	Jun 13 1983
LOWEST DAILY MEAN	228	Nov 7	228	Nov 7	.00	Oct 17 1954
ANNUAL SEVEN-DAY MINIMUM	241	Nov 4	241	Nov 4	.00	Oct 17 1954
ANNUAL RUNOFF (AC-FT)	1742000		1062000		2036000	
10 PERCENT EXCEEDS	4500		3200		6480	
50 PERCENT EXCEEDS	3000		503		2700	
90 PERCENT EXCEEDS	243		243		96	

a Unregulated, prior to construction of Arrowrock Dam.
b Regulated, unadjusted (since construction of Lucky Peak Dam).

BOISE RIVER BASIN

13203510 BOISE RIVER BELOW DIVERSION DAM NEAR BOISE, ID

LOCATION.--Lat 43°32'23", long 116°05'37", in SE¼SE¼NE¼ sec.4, T.2 N., R.3 E., Ada County, Hydrologic Unit 17050114, on right bank, 700 ft downstream from Diversion Dam, and 7.0 mi southeast of Boise.

DRAINAGE AREA.--2,680 mi^2, approximately. Mean elevation, 5,910 ft.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1990 to September 1991, October 1992 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April to September 1997, February to September 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 18.4 °C Sep. 16, 19-20, 1999.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, COLI-LERT QUANTRY WATER (MPN/ 100 ML) (50468)	TOTAL COLI-FORM, COLILRT QNT,WTR (MPN/ 100 ML) (50569)
OCT											
17...	1045	307	87	7.4	10.2	12.9	--	--	S7	6	110
DEC											
11...	1305	246	90	8.0	-2.0	4.7	13.0	111	S1	1	20
FEB											
12...	1215	246	90	8.5	2.0	1.6	13.4	107	<1	<1	2
APR											
17...	1000	970	94	7.7	17.0	5.8	11.7	103	<1	--	--
JUN											
12...	1210	1460	84	7.6	12.0	10.3	10.9	108	<1	<1	S130
AUG											
27...	1345	1590	77	7.5	32.0	18.8	9.3	111	--	1	2400

DATE	TIME	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT							
17...	1045	E.032	.18	.079	E.015	E.030	6
DEC							
11...	1305	<.041	.20	.055	E.011	E.044	5
FEB							
12...	1215	<.041	.21	<.047	<.018	<.060	1
APR							
17...	1000	<.041	.10	<.047	<.018	<.060	3
JUN							
12...	1210	<.040	.11	.063	<.020	<.060	2
AUG							
27...	1345	<.040	.14	E.069	E.011	<.060	2

< Less than
E Estimated value
S Most probable value

BOISE RIVER BASIN

13204640 COTTONWOOD CREEK BELOW FIVEMILE CREEK NEAR BOISE, ID

LOCATION.--Lat 43°37'43", long 116°06'39", in SW¼NE¼NW¼ sec.4, T.4 N., R.3 E., Ada County, Hydrologic Unit 17050114, on left bank 500 ft downstream from Fivemile Creek, and 5.0 mi east of Boise. .

PERIOD OF RECORD.--October 2000 to September 2001.

GAGE.--Water-stage recorder. Elevation of gage is 3,780 ft above seal level, from topographic map.

REMARKS.--Records fair except estimated daily discharges and discharges above 5 ft³/s, which are poor. Station equipment includes satellite telemetry.

COOPERATION.--City of Boise.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 8 ft³/s Mar. 14; no flow July 9, 10, July 12 to Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.10	.67	.92	.77	1.2	2.0	3.2	2.4	.63	.08	.00	.00
2	e.10	.65	.85	.76	1.2	2.0	3.1	2.2	.50	.06	.00	.00
3	e.10	.63	.82	.75	1.3	2.0	2.9	2.0	.63	.03	.00	.00
4	e.10	.65	.80	.76	1.5	2.1	2.7	1.9	.71	.02	.00	.00
5	e.15	.64	.80	.77	1.6	2.5	2.6	1.8	.91	.02	.00	.00
6	e.15	.63	.79	.77	1.8	3.4	2.6	1.8	.59	.01	.00	.00
7	e.15	.63	.79	.77	e1.5	5.0	3.2	1.7	.44	.01	.00	.00
8	e.15	.67	.78	.77	e1.0	6.2	2.9	1.6	.43	.01	.00	.00
9	e.20	.67	.77	.78	e1.0	5.2	2.8	1.4	.42	.00	.00	.00
10	e.20	.69	.77	.81	e1.0	6.6	2.7	1.2	.34	.00	.00	.00
11	e.30	.67	.76	.90	1.4	6.8	2.9	1.0	.37	.01	.00	.00
12	e.40	.66	.77	1.1	1.3	7.7	3.0	.91	.44	.00	.00	.00
13	e.50	.67	.77	1.1	1.2	7.7	3.0	.84	.45	.00	.00	.00
14	.24	.68	.83	1.1	1.2	8.0	3.2	.80	.40	.00	.00	.00
15	.28	.68	.81	1.1	1.2	7.7	3.4	1.3	.36	.00	.00	.00
16	.30	.66	.77	e.50	1.2	7.2	3.5	1.8	.32	.00	.00	.00
17	.30	.65	.78	e1.0	1.5	6.0	3.6	.82	.30	.00	.00	.00
18	.31	.65	.73	1.1	1.6	3.4	3.8	.75	.30	.00	.00	.00
19	.33	.64	.77	1.2	1.4	3.9	4.1	.68	.27	.00	.00	.00
20	.39	.65	.76	1.2	1.7	5.5	4.1	.65	.23	.00	.00	.00
21	.88	.66	.78	1.2	2.2	5.5	4.0	.64	.19	.00	.00	.00
22	.63	.67	.81	1.2	2.5	6.3	4.4	.55	.16	.00	.00	.00
23	.59	.67	.85	1.2	2.5	5.5	4.1	.51	.15	.00	.00	.00
24	.56	.67	1.0	1.2	3.1	6.1	3.8	.46	.13	.00	.00	.00
25	.56	.69	.86	1.2	2.6	5.1	4.0	.41	.16	.00	.00	.00
26	.78	.72	.84	1.1	2.2	4.5	3.2	.53	.14	.00	.00	.00
27	.69	.86	.82	1.2	2.1	4.0	3.1	.62	.14	.00	.00	.00
28	.59	.81	.79	e.50	2.1	3.9	3.0	.68	.19	.00	.00	.00
29	1.0	.89	.81	e1.0	---	3.6	2.8	.67	.13	.00	.00	.00
30	.74	.98	.80	1.2	---	3.5	2.6	.56	.10	.00	.00	.00
31	.68	---	.77	1.2	---	3.3	---	.52	---	.00	.00	---
TOTAL	12.45	20.76	24.97	30.21	46.1	152.2	98.3	33.70	10.53	0.25	0.00	0.00
MEAN	.40	.69	.81	.97	1.65	4.91	3.28	1.09	.35	.008	.000	.000
MAX	1.0	.98	1.0	1.2	3.1	8.0	4.4	2.4	.91	.08	.00	.00
MIN	.10	.63	.73	.50	1.0	2.0	2.6	.41	.10	.00	.00	.00
AC-FT	25	41	50	60	91	302	195	67	21	.5	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2001, BY WATER YEAR (WY)

MEAN	.40	.69	.81	.97	1.65	4.91	3.28	1.09	.35	.008	.000	.000
MAX	.40	.69	.81	.97	1.65	4.91	3.28	1.09	.35	.008	.000	.000
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	.40	.69	.81	.97	1.65	4.91	3.28	1.09	.35	.008	.000	.000
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 WATER YEAR	
ANNUAL TOTAL	429.47	
ANNUAL MEAN	1.18	
HIGHEST DAILY MEAN	8.0	Mar 14
LOWEST DAILY MEAN	.00	Jul 9
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 12
ANNUAL RUNOFF (AC-FT)	852	
10 PERCENT EXCEEDS	3.3	
50 PERCENT EXCEEDS	.68	
90 PERCENT EXCEEDS	.00	

e Estimated

BOISE RIVER BASIN

13205995 DIVERSIONS FROM BOISE RIVER BETWEEN GAGING STATIONS NEAR BOISE AND AT GLENWOOD BRIDGE, ID

Between "near Boise" and "at Glenwood Bridge" gaging stations (published as "between Dowling Ranch and at Boise gaging stations" prior to 1955 water year, and as "between near Boise and at Boise gaging stations", 1955-82), ten canals and several small farm laterals divert water from Boise River for irrigation.

Records of total diversion during April to September for each canal for years 1919-46, combined daily diversion covering period April to September for years 1947-67, combined daily diversions for water years 1968-75, and daily flow of New York Canal, February 1939 to October 1948, are published in reports of Geological Survey. Records of daily diversion for each canal from 1916-2001 are on file in office of the Idaho Department of Water Resources. Prior to October 1967, there was no record of October to March diversions, except for New York Canal.

Records show summation of discharge for the recorded diversions. Staff gages on canals are read daily or several times weekly, and discharge measurements are made weekly. Records provided by watermaster for Boise River.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2540	---	---	---	---	---	140	1900	2320	2090	2320	2230
2	2510	---	---	---	---	---	165	1940	2310	2090	2320	2230
3	2490	---	---	---	---	---	190	1950	2300	2190	2330	2230
4	2130	---	---	---	---	---	215	1960	2300	2320	2330	2210
5	1970	---	---	---	---	---	235	1970	2290	2310	2330	2220
6	1960	---	---	---	---	---	255	1980	2280	2310	2330	2160
7	1930	---	---	---	---	---	274	2090	2270	2300	2340	2120
8	1910	---	---	---	---	---	294	2150	2270	2300	2340	2120
9	1900	---	---	---	---	---	313	2210	2280	2300	2340	2130
10	1900	---	---	---	---	---	323	2240	2280	2300	2340	928
11	1820	---	---	---	---	---	332	2260	2330	2300	2340	521
12	1670	---	---	---	---	---	381	2300	2350	2300	2340	282
13	575	---	---	---	---	---	397	2330	2330	2300	2340	281
14	34	---	---	---	---	---	412	2340	2320	2300	2340	281
15	24	---	---	---	---	---	428	2360	2310	2300	2370	280
16	.70	---	---	---	---	---	1020	2380	2300	2300	2360	277
17	.70	---	---	---	---	---	1130	2410	2290	2300	2330	279
18	.70	---	---	---	---	---	1220	2440	2240	2300	2330	277
19	.70	---	---	---	---	---	1240	2480	2260	2280	2330	276
20	.70	---	---	---	---	---	1270	2510	2260	2270	2330	275
21	.70	---	---	---	---	---	1290	2540	2250	2260	2330	274
22	.70	---	---	---	---	---	1300	2280	2320	2260	2330	273
23	.70	---	---	---	---	---	1350	2300	2350	2260	2330	273
24	.70	---	---	---	---	---	1460	2310	2330	2280	2330	272
25	.70	---	---	---	---	---	1530	2320	2330	2280	2330	267
26	.70	---	---	---	---	---	1620	2330	2320	2280	2330	267
27	.70	---	---	---	---	---	1750	2320	2320	2270	2330	266
28	.70	---	---	---	---	---	1810	2320	2310	2270	2330	265
29	.70	---	---	---	---	---	1820	2320	2300	2270	2330	265
30	.70	---	---	---	---	---	1840	2320	2120	2300	2270	265
31	.70	---	---	---	---	---	---	2320	---	2320	2230	---
TOTAL	25374.20	---	---	---	---	---	26004	69880	68840	70510	72200	26294
MEAN	819	---	---	---	---	---	867	2254	2295	2275	2329	876
MAX	2540	---	---	---	---	---	1840	2540	2350	2320	2370	2230
MIN	.70	---	---	---	---	---	140	1900	2120	2090	2230	265
AC-FT	50330	---	---	---	---	---	51580	138600	136500	139900	143200	52150

BOISE RIVER BASIN

13206000 BOISE RIVER AT GLENWOOD BRIDGE NEAR BOISE, ID

LOCATION.--Lat 43°39'37", long 116°16'41", in SW¼NE¼NE¼ sec.25, T.4 N., R.1 E., Ada County, Hydrologic Unit 17050114, on left bank 175 ft upstream from Glenwood Bridge, 4.4 mi northwest of Boise, and at mile 47.5.

DRAINAGE AREA.--2,800 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to September 1940 (published as "at Strawberry Glen Bridge near Boise"), March 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,600.00 ft above sea level. April 1938 to September 1940, 0.30 mi downstream at different datum.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Flow regulated by Anderson Ranch Reservoir, Arrowrock Reservoir and Lucky Peak Lake (see sta 13201500). The New York, Ridenbaugh and eight small canals (see sta 13205995) divert between station "near Boise" (see sta 13202000) and this station. Diversion above station for about 5,000 acres are outside the basin near Mountain Home.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, prior to completion of Lucky Peak Dam in 1955, 13,000 ft^3/s May 2, 1938; minimum observed, 19 ft^3/s Dec. 3, 1939. Maximum discharge since regulation, 9,840 ft^3/s June 13, 1983, gage height, 11.54 ft; minimum, 42 ft^3/s Oct. 26, 1983.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 20, 1943 reached a discharge of about 21,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 947 ft^3/s May 20; minimum daily, 260 ft^3/s Oct. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	644	265	276	267	268	266	285	825	870	838	783	801
2	638	267	273	267	268	272	280	848	870	824	757	802
3	626	268	275	267	268	267	328	873	870	820	808	805
4	623	266	277	267	270	265	286	874	870	817	785	800
5	587	269	275	266	271	264	289	853	866	825	782	661
6	564	267	273	267	273	268	298	850	880	817	782	552
7	543	273	272	267	266	283	327	848	888	807	777	501
8	532	274	270	268	263	282	306	847	882	815	783	476
9	535	274	268	267	265	270	317	854	878	808	796	467
10	549	274	270	272	265	276	343	854	876	804	797	714
11	572	279	271	297	265	277	374	860	903	811	798	468
12	605	270	270	273	266	279	357	867	925	817	791	409
13	671	276	272	276	265	279	355	863	906	813	824	397
14	394	279	287	273	264	276	361	876	891	812	819	386
15	352	282	277	272	264	275	360	906	887	813	800	374
16	339	276	269	271	264	284	427	914	887	821	775	367
17	312	275	268	271	264	279	560	920	883	810	762	347
18	302	275	269	272	264	278	535	922	877	804	764	305
19	268	275	267	272	265	277	e500	932	869	802	766	301
20	274	275	268	271	270	276	e500	947	882	791	770	302
21	294	274	269	272	267	274	508	938	862	777	760	295
22	271	275	276	271	268	280	508	930	838	778	771	286
23	268	270	270	270	266	276	523	924	856	778	784	285
24	267	271	287	269	268	275	556	911	909	782	787	279
25	265	271	273	276	268	297	547	900	890	777	786	279
26	272	272	266	269	265	285	642	904	847	780	787	279
27	267	285	268	269	265	283	759	902	850	770	786	279
28	264	274	268	268	264	283	782	893	843	767	783	278
29	283	280	268	270	---	274	786	884	820	770	788	277
30	260	282	267	269	---	276	805	876	857	781	802	277
31	261	---	267	268	---	280	---	875	---	784	811	---
TOTAL	12902	8213	8426	8394	7459	8576	13804	27470	26232	24813	24364	13049
MEAN	416	274	272	271	266	277	460	886	874	800	786	435
MAX	671	285	287	297	273	297	805	947	925	838	824	805
MIN	260	265	266	266	263	264	280	825	820	767	757	277
AC-FT	25590	16290	16710	16650	14790	17010	27380	54490	52030	49220	48330	25880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2001, BY WATER YEAR (WY)

MEAN	457	353	518	966	1239	2060	2754	2900	2267	1254	905	649
MAX	1559	1516	1685	5903	7059	7037	6850	6780	6749	2689	1443	1893
(WY)	1985	1985	1984	1997	1997	1997	1997	1984	1983	1982	1997	1984
MIN	150	106	106	107	108	111	460	655	620	554	500	266
(WY)	1993	1993	1993	1993	1993	1992	2001	1990	1987	1992	1992	1992

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1982 - 2001	
ANNUAL TOTAL	314342		183702			
ANNUAL MEAN	859		503		1320	
HIGHEST ANNUAL MEAN					3381	1997
LOWEST ANNUAL MEAN					358	1992
HIGHEST DAILY MEAN	3330	Apr 19	947	May 20	9560	Jun 13 1983
LOWEST DAILY MEAN	212	Feb 9	260	Oct 30	86	Nov 2 1992
ANNUAL SEVEN-DAY MINIMUM	240	Feb 4	264	Feb 13	99	Nov 1 1992
ANNUAL RUNOFF (AC-FT)	623500		364400		956000	
10 PERCENT EXCEEDS	1840		871		4710	
50 PERCENT EXCEEDS	794		305		699	
90 PERCENT EXCEEDS	267		267		169	

e Estimated

13206000 BOISE RIVER AT GLENWOOD BRIDGE NEAR BOISE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years1971-73, 1988, 1990 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July to September 1997, March to June 1998, October 1998 to September 1999, April to September 2001 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 22.0 °C Sept. 2-3, 2001; minimum, 0.0 °C Dec. 21-22, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 22.0 °C Sept 2-3.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, COLI-LERT QUANTRY WATER (MPN/ 100 ML) (50468)	TOTAL COLI-FORM, COLILRT QNT,WTR (MPN/ 100 ML) (50569)
OCT											
17...	1400	310	133	8.4	26.5	14.6	12.0	130	40	21	1700
DEC											
12...	1300	273	155	7.7	1.0	4.6	13.9	119	51	20	460
FEB											
13...	1245	269	158	8.2	1.0	2.8	14.4	118	35	23	520
APR											
18...	0910	571	117	7.6	14.0	7.5	11.3	104	S43	S7	S2000
MAY											
14...	1225	875	111	8.7	25.0	9.8	14.0	136	S11	--	--
JUN											
12...	1630	908	102	8.9	15.5	13.2	12.5	132	S22	S16	S2000
JUL											
16...	1315	824	99	8.1	19.0	15.2	11.0	121	200	--	--
AUG											
28...	1215	787	94	8.4	27.5	18.8	10.6	126	--	23	2900
SEP											
25...	1140	282	137	7.6	23.0	17.9	8.7	102	140	--	--

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)	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)
SEP													
25...	41.6	14.0	1.64	11.2	36.1	1.23	58	0	48	8.3	5.6	.5	13.2

DATE	TIME	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT							
17...	1400	<.041	.53	.437	.143	.206	4
DEC							
12...	1300	<.041	.34	.866	.296	.382	3
FEB							
13...	1245	<.041	.21	.698	.371	.381	1
APR							
18...	0910	<.041	.21	.191	.083	.114	8
MAY							
14...	1225	.004	.17	.214	.122	.148	2
JUN							
12...	1630	.007	.16	.256	.070	.091	3
JUL							
16...	1315	.008	.19	.230	.130	.144	5
AUG							
28...	1215	.006	.19	.137	.020	.035	4
SEP							
25...	1140	.017	.26	.447	.081	.098	2

< Less than
S Most probable value

BOISE RIVER BASIN

13206000 BOISE RIVER AT GLENWOOD BRIDGE NEAR BOISE, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	10.1	6.6	8.5
2	---	---	---	---	---	---	---	---	---	9.6	5.8	7.9
3	---	---	---	---	---	---	---	---	---	11.2	5.9	8.5
4	---	---	---	---	---	---	---	---	---	11.5	6.6	9.1
5	---	---	---	---	---	---	---	---	---	11.4	7.5	9.4
6	---	---	---	---	---	---	---	---	---	11.2	6.2	8.7
7	---	---	---	---	---	---	---	---	---	12.0	6.6	9.3
8	---	---	---	---	---	---	---	---	---	11.4	7.2	9.4
9	---	---	---	---	---	---	---	---	---	10.6	7.5	9.2
10	---	---	---	---	---	---	---	---	---	12.0	7.0	9.4
11	---	---	---	---	---	---	---	---	---	12.6	7.2	9.9
12	---	---	---	---	---	---	---	---	---	12.6	8.1	10.3
13	---	---	---	---	---	---	---	---	---	11.4	8.6	10.0
14	---	---	---	---	---	---	---	---	---	10.3	8.1	9.4
15	---	---	---	---	---	---	---	---	---	10.0	8.3	9.1
16	---	---	---	---	---	---	---	---	---	12.3	8.1	10.0
17	---	---	---	---	---	---	---	---	---	11.7	7.5	9.7
18	---	---	---	---	---	---	---	---	---	12.8	8.1	10.3
19	---	---	---	---	---	---	10.9	7.6	9.4	11.8	7.9	10.0
20	---	---	---	---	---	---	9.3	7.2	8.4	12.4	8.1	10.2
21	---	---	---	---	---	---	9.2	6.9	8.0	12.8	7.8	10.2
22	---	---	---	---	---	---	10.9	6.1	8.5	13.7	8.1	10.8
23	---	---	---	---	---	---	11.7	7.3	9.5	14.0	8.7	11.3
24	---	---	---	---	---	---	12.1	7.2	9.7	14.3	9.0	11.7
25	---	---	---	---	---	---	12.6	7.6	10.2	14.0	9.5	11.8
26	---	---	---	---	---	---	11.8	7.6	9.9	12.4	9.5	11.0
27	---	---	---	---	---	---	10.1	7.3	8.9	14.8	9.3	11.8
28	---	---	---	---	---	---	9.2	7.3	8.2	13.7	9.5	11.6
29	---	---	---	---	---	---	10.4	6.1	8.2	12.9	8.9	11.0
30	---	---	---	---	---	---	10.3	7.2	8.7	13.8	8.7	11.2
31	---	---	---	---	---	---	---	---	---	14.6	9.3	12.0
MONTH	---	---	---	---	---	---	---	---	---	14.8	5.8	10.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.5	9.6	12.2	18.3	13.2	15.6	20.1	15.2	17.7	21.7	18.1	20.0
2	14.0	10.0	11.9	18.6	13.1	15.8	20.9	15.9	18.4	22.0	18.1	20.1
3	12.0	9.3	10.7	18.6	13.4	16.0	20.9	16.2	18.6	22.0	18.3	20.2
4	13.8	9.3	11.5	18.4	14.0	16.2	20.7	16.7	18.6	21.7	18.4	20.2
5	12.3	9.8	11.1	18.4	14.3	16.4	21.0	16.2	18.6	21.2	18.6	19.9
6	13.8	9.6	11.7	19.1	14.1	16.6	21.4	16.5	18.9	20.2	17.3	18.8
7	15.4	10.3	12.7	17.2	14.1	15.0	21.4	16.7	19.0	20.1	17.2	18.7
8	15.6	10.4	13.0	18.9	13.8	16.1	21.5	17.0	19.3	20.5	16.7	18.6
9	15.4	10.6	13.0	18.4	14.3	16.5	19.9	17.0	18.4	21.0	17.0	19.1
10	15.4	10.6	13.0	19.2	14.3	16.8	21.5	17.0	19.2	20.9	17.5	19.4
11	13.5	10.9	12.3	18.6	14.3	16.5	21.4	17.3	19.4	21.4	17.8	19.8
12	13.8	10.6	12.0	18.6	14.5	16.4	19.9	17.2	18.7	20.4	18.9	19.8
13	14.3	9.6	12.0	18.4	14.1	16.2	20.4	17.2	18.8	20.7	18.3	19.4
14	15.7	10.3	12.9	18.8	14.0	16.4	21.2	17.2	19.2	21.4	17.6	19.5
15	15.6	10.7	13.2	18.1	14.3	16.2	21.5	17.6	19.5	21.2	18.8	20.1
16	16.0	10.7	13.4	17.2	14.6	15.8	21.5	17.3	19.5	21.2	18.3	19.8
17	15.6	11.2	13.4	17.3	14.0	15.6	21.5	17.3	19.5	21.0	18.1	19.7
18	15.4	10.6	13.0	18.8	13.8	16.2	21.2	17.2	19.3	21.2	18.4	19.8
19	16.2	10.9	13.5	18.9	14.0	16.4	20.7	16.8	18.9	20.2	18.1	19.3
20	16.7	11.4	14.1	19.4	14.5	16.8	21.0	16.7	18.9	20.2	16.7	18.5
21	17.2	11.8	14.5	19.2	14.6	16.9	20.9	16.8	18.9	20.1	17.5	18.8
22	17.6	12.3	15.0	19.2	14.5	16.9	20.4	16.8	18.8	20.2	16.8	18.5
23	16.4	12.6	14.6	19.6	14.6	17.1	20.9	17.2	19.0	20.1	17.3	18.8
24	16.8	12.1	14.3	19.9	14.8	17.4	20.9	17.0	19.0	20.7	17.8	19.3
25	15.4	11.8	13.7	19.9	15.1	17.5	21.2	16.8	19.0	19.7	16.8	18.0
26	17.6	12.4	14.9	19.9	14.9	17.4	21.7	17.2	19.5	19.4	15.9	17.6
27	15.7	13.2	14.3	20.1	14.9	17.6	21.5	17.6	19.7	19.4	16.8	18.2
28	18.0	12.8	15.1	19.7	15.4	17.6	21.2	17.3	19.4	19.1	17.5	18.3
29	18.1	12.9	15.6	19.4	15.1	17.3	21.5	17.5	19.5	18.6	16.0	17.4
30	17.0	13.1	15.1	17.6	15.7	16.3	21.7	17.6	19.7	19.1	15.9	17.5
31	---	---	---	19.7	14.9	17.1	21.7	18.0	20.0	---	---	---
MONTH	18.1	9.3	13.3	20.1	13.1	16.5	21.7	15.2	19.1	22.0	15.9	19.1

BOISE RIVER BASIN

13206305 BOISE RIVER SOUTH CHANNEL AT EAGLE, ID

LOCATION.--Lat 43°40'31", long 116°21'13", in NE¼SE¼NE¼ sec.20, T.4 N., R.1 W., Ada County, Hydrologic Unit 17050114, on right bank at State Highway 55, 10 ft upstream from bridge, 1.5 mi south of Eagle, and at mile 42.8.

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

GAGE.--Water-stage recorder. Datum of gage is 2,560 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,470 ft^3/s Apr. 19, 2000, gage height, 4.73 ft; minimum daily, 130 ft^3/s Nov. 7, 19, Dec. 27, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 835 ft^3/s Oct. 12, gage height, 3.88 ft; minimum daily, 148 ft^3/s Mar. 29, 30, Apr. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	555	225	217	169	161	161	152	532	607	574	530	549
2	545	230	216	168	167	164	148	557	603	565	515	550
3	528	228	212	163	170	163	168	572	617	566	508	553
4	532	222	215	165	169	161	158	561	624	551	507	552
5	513	225	211	164	163	160	151	538	627	549	506	382
6	498	224	191	159	164	165	154	525	623	545	502	244
7	470	228	178	158	160	170	166	523	618	534	503	234
8	450	235	176	163	160	169	157	533	612	535	506	228
9	464	234	178	162	159	157	158	534	615	528	520	227
10	469	232	174	162	157	162	169	546	612	528	517	313
11	470	227	169	169	160	163	179	544	636	594	518	237
12	504	222	165	158	168	163	186	558	651	579	521	214
13	509	223	163	162	163	161	206	565	628	569	534	211
14	341	225	172	165	158	164	210	579	614	578	533	212
15	304	225	174	169	158	170	213	591	608	547	520	205
16	298	222	169	163	158	174	227	601	606	549	508	199
17	269	220	163	156	160	172	304	609	609	546	500	193
18	268	218	164	156	159	169	340	633	613	543	498	168
19	257	218	162	163	164	164	328	648	608	547	495	162
20	250	218	163	160	172	162	330	649	626	546	498	165
21	238	218	165	160	165	163	338	650	608	540	496	165
22	227	219	167	165	165	165	328	638	587	537	508	163
23	222	215	162	166	163	164	343	618	590	528	515	165
24	229	216	170	166	169	158	374	619	626	522	515	160
25	235	219	164	169	172	157	381	597	620	513	519	160
26	237	225	168	163	170	155	449	604	593	513	532	163
27	233	227	174	162	165	154	520	622	595	512	536	165
28	230	218	167	162	161	152	519	621	596	510	542	163
29	240	217	163	162	---	148	521	609	571	508	545	161
30	225	221	161	162	---	148	523	607	581	519	553	162
31	223	---	164	162	---	150	---	604	---	525	558	---
TOTAL	11033	6696	5457	5053	4580	5008	8400	18187	18324	16800	16058	7425
MEAN	356	223	176	163	164	162	280	587	611	542	518	248
MAX	555	235	217	169	172	174	523	650	651	594	558	553
MIN	222	215	161	156	157	148	148	523	571	508	495	160
AC-FT	21880	13280	10820	10020	9080	9930	16660	36070	36350	33320	31850	14730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	356	183	159	154	159	369	634	592	686	623	633	402
MAX	356	223	176	163	164	576	988	597	761	704	747	557
(WY)	2001	2001	2001	2001	2001	2000	2000	2000	2000	2000	2000	2000
MIN	356	143	142	145	155	162	280	587	611	542	518	248
(WY)	2001	2000	2000	2000	2000	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL TOTAL	182736		123021			
ANNUAL MEAN	499		337		337	
HIGHEST ANNUAL MEAN					337	2001
LOWEST ANNUAL MEAN					337	2001
HIGHEST DAILY MEAN	1270	Apr 19	651	Jun 12	1270	Apr 19 2000
LOWEST DAILY MEAN	132	Jan 1	148	Mar 29	130	Nov 7 1999
ANNUAL SEVEN-DAY MINIMUM	141	Jan 1	150	Mar 27	135	Dec 27 1999
ANNUAL RUNOFF (AC-FT)	362500		244000		244200	
10 PERCENT EXCEEDS	835		603		739	
50 PERCENT EXCEEDS	534		227		450	
90 PERCENT EXCEEDS	150		161		146	

BOISE RIVER BASIN

13210050 BOISE RIVER NEAR MIDDLETON, ID

LOCATION.--Lat 43°41'06", long 116°34'22", in SE¼SE¼SE¼NE¼ sec.16, T.4 N., R.2 W., Canyon County, Hydrologic Unit 17050114, on right bank, 2.9 mi southeast of Middleton, and at mile 29.1.

DRAINAGE AREA.--3,050 mi^2, approximately.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1977, November 1991 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April to September 1997, October 1998 to September 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 22.0 °C Aug. 29, 1999; minimum, 0.2 °C Dec. 21-24, 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, COLI-LERT QUANTRY WATER (MPN/ 100 ML) (50468)	TOTAL COLI-FORM, COLILRT QNT,WTR (MPN/ 100 ML) (50569)
OCT											
18...	1100	324	219	8.0	15.5	13.2	14.9	155	S45	24	1400
DEC											
13...	1215	243	228	7.9	3.0	4.1	13.2	111	73	42	1000
FEB											
14...	1352	259	243	8.8	1.0	3.5	15.7	130	S3	3	1400
APR											
18...	1130	311	184	8.4	19.5	12.0	9.9	101	10	S36	>2500
JUN											
13...	1255	322	159	9.1	18.0	15.1	14.3	156	58	S44	S3900
AUG											
28...	1550	251	159	8.8	31.0	22.5	12.2	156	--	520	24000

DATE	TIME	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT							
18...	1100	<.041	.31	1.91	.339	.384	6
DEC							
13...	1215	<.041	.23	2.67	.489	.553	4
FEB							
14...	1352	<.041	.43	2.70	.534	.631	5
APR							
18...	1130	<.041	.51	1.38	.274	.353	16
JUN							
13...	1255	<.040	.36	.696	.133	.185	5
AUG							
28...	1550	<.040	.39	E.482	E.165	.176	5

< Less than
> Greater than
E Estimated value
S Most probable value

BOISE RIVER BASIN

13212996 DIVERSIONS FROM BOISE RIVER BETWEEN GAGING STATIONS AT GLENWOOD BRIDGE AND NEAR PARMA, ID

Between "at Glenwood Bridge" and "near Parma" gaging stations (published as "between at Boise and Notus gaging stations" prior to 1974, and "between at Boise and near Parma gaging stations", 1974-82), 23 canals and several small farm laterals divert water from Boise River for irrigation.

Records of daily diversions for each canal for 1916-2001 are on file in office of the Idaho Department of Water Resources. Prior to October 1967 there was no record of October to March diversions.

Records show summation of discharge for the recorded diversions. Staff gages on canals are read daily or several times weekly, and discharge measurements are made weekly. Records provided by watermaster for Boise River.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1060	---	---	---	---	---	.80	1240	1480	1440	1310	1240
2	1050	---	---	---	---	---	21	1270	1480	1420	1320	1220
3	1050	---	---	---	---	---	129	1290	1470	1120	1320	1210
4	1050	---	---	---	---	---	147	1310	1470	1410	1320	1210
5	1040	---	---	---	---	---	164	1330	1470	1400	1320	1050
6	1040	---	---	---	---	---	182	1360	1470	1390	1320	944
7	1030	---	---	---	---	---	200	1380	1470	1390	1340	939
8	1030	---	---	---	---	---	217	1400	1470	1390	1350	926
9	1020	---	---	---	---	---	238	1410	1470	1390	1320	910
10	1020	---	---	---	---	---	261	1420	1470	1390	1360	902
11	840	---	---	---	---	---	276	1420	1470	868	1340	886
12	659	---	---	---	---	---	297	1430	1470	1380	1340	888
13	646	---	---	---	---	---	317	1370	1470	1380	1340	892
14	633	---	---	---	---	---	338	1300	1460	1370	1320	889
15	620	---	---	---	---	---	359	1380	1460	1360	1310	888
16	573	---	---	---	---	---	380	1460	1480	1360	1310	893
17	393	---	---	---	---	---	644	1450	1470	1350	1310	884
18	363	---	---	---	---	---	687	1450	1470	1340	1310	883
19	310	---	---	---	---	---	737	1450	1470	1350	1320	869
20	257	---	---	---	---	---	781	1450	1470	1340	1310	868
21	204	---	---	---	---	---	825	1440	1470	1330	1300	871
22	151	---	---	---	---	---	870	1440	1460	1320	1280	869
23	99	---	---	---	---	---	914	1440	1460	1310	1270	865
24	46	---	---	---	---	---	972	1450	1460	1310	1270	864
25	10	---	---	---	---	---	1030	1450	1460	1320	1270	867
26	9.2	---	---	---	---	---	1070	1460	1460	1320	1270	870
27	7.3	---	---	---	---	---	1110	1460	1460	1330	1270	861
28	5.5	---	---	---	---	---	1140	1470	1450	1320	1270	859
29	3.7	---	---	---	---	---	1170	1480	1440	1330	1250	855
30	1.8	---	---	---	---	---	1200	1480	1440	1320	1250	852
31	.00	---	---	---	---	---	---	1480	---	1320	1240	---
TOTAL	16221.50	---	---	---	---	---	16676.80	43620	43970	41368	40430	28024
MEAN	523	---	---	---	---	---	556	1407	1466	1334	1304	934
MAX	1060	---	---	---	---	---	1200	1480	1480	1440	1360	1240
MIN	.00	---	---	---	---	---	.80	1240	1440	868	1240	852
AC-FT	32180	---	---	---	---	---	33080	86520	87210	82050	80190	55590

BOISE RIVER BASIN

13213000 BOISE RIVER NEAR PARMA, ID

LOCATION.--Lat 43°46'54", long 116°58'17", in SE¼NE¼SE¼ sec.7, T.5 N., R.5 W., Canyon County, Hydrologic Unit 17050114, on left bank, at county road crossing, 1.2 mi west of Parma, and at mile 3.8.

DRAINAGE AREA.--3,970 mi^2, approximately.

WATER-QUALITY RECORDS

PERIOD OF RECORD--Chemical analyses July 1969 to December 1972, December 1973 to September 1981, October 1986 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: March to September 1973, November 1974 to March 1975, September 1975 to September 1976, October 1986 to September 1995, April to September 1997, October 1998 to September 1999 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 28.5 °C June 27-28, 1973; minimum, 0.0 °C on many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, COLI-LERT QUANTRY WATER (MPN/ 100 ML) (50468)	TOTAL COLI-FORM, COLILRT QNT,WTR (MPN/ 100 ML) (50569)
OCT											
19...	1100	1180	484	8.1	19.0	14.2	10.4	110	1300	99	>4800
DEC											
14...	1125	841	514	8.0	5.0	5.8	12.5	109	150	32	300
FEB											
15...	1200	761	524	8.5	1.0	4.2	12.8	107	51	77	1700
APR											
19...	1120	805	343	8.0	17.0	13.0	9.0	93.0	790	S1000	>2400
JUN											
14...	1215	588	381	8.1	25.0	17.3	9.5	108	S430	S310	S7900
AUG											
30...	1030	432	460	7.9	36.0	19.6	8.3	98.9	--	30	>48000

DATE	TIME	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT							
19...	1100	<.041	.38	3.31	.278	.336	18
DEC							
14...	1125	<.041	.39	4.45	.362	.425	8
FEB							
15...	1200	<.041	.49	4.42	.390	.487	18
APR							
19...	1120	.089	.70	2.04	.256	.439	78
JUN							
14...	1215	.045	.69	1.67	.207	.304	58
AUG							
30...	1030	<.040	.72	1.72	.222	.305	38

< Less than
> Greater than
S Most probable value

SNAKE RIVER MAIN STEM

13213100 SNAKE RIVER AT NYSSA, OR

LOCATION.--Lat 43°52'34", long 116°58'53", in NW¼SW¼NE¼ sec.7, T.6 N., R.5 W., Canyon County, Hydrologic Unit 17050115, on right bank, 300 ft upstream from U.S. Highway 20-26 bridge at Nyssa, 2.3 mi downstream from Boise River, and at mile 385.2.

DRAINAGE AREA.--58,700 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1974 to September 1986, February 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,170 ft above sea level, from topographic map. Prior to 1989, station located on left bank, in Oregon.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by many reservoirs above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,900 ft^3/s Apr. 19, 1984, gage height, 13.34 ft; minimum, 4,110 ft^3/s June 7, 1992, gage height, 4.32 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 13,400 ft^3/s Oct. 13; minimum daily, 5,630 ft^3/s June 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11500	10500	9210	8360	8410	8860	7890	7900	7280	6310	6960	7140
2	11000	10900	8950	8480	8670	9040	8470	7750	6460	6200	6080	7190
3	11100	11000	9210	8370	8190	8300	8210	7790	6580	5870	6090	7420
4	10900	10500	8720	9020	8620	8550	8270	7270	6770	5900	6420	7570
5	11200	10400	9100	8440	8490	8780	7780	7420	7000	5940	6230	7420
6	11000	10400	9020	8230	8570	9130	7890	7360	7250	5900	6200	7520
7	10900	9610	9520	8370	8560	8820	7800	7340	6900	5840	6350	7340
8	11200	10200	9370	8430	8310	8280	7520	7290	6720	6110	6080	7800
9	11300	10600	8740	9010	8680	9110	7890	7020	6730	6410	5810	7910
10	11300	9750	8570	8310	8840	9110	7590	7450	6970	6680	6050	7960
11	11600	10400	8910	8470	8340	8940	8290	7020	6460	6400	6380	7870
12	12100	10500	10100	8760	7980	9090	8810	6970	6380	6380	6580	7780
13	13400	10500	11700	8940	8510	9630	8150	6650	6500	6490	6880	8020
14	12900	9720	12400	8820	8130	9190	8650	7020	6630	6670	6110	7900
15	12300	10300	9610	8560	8740	8860	8750	8640	6570	6740	6040	7540
16	12500	9450	9300	8780	8630	9170	8660	9060	6670	6750	6360	8030
17	12200	9550	8730	8670	8490	9020	9350	8830	6360	6540	6490	8030
18	12500	10100	8350	8700	8250	9040	9400	9660	6240	6550	6400	8560
19	11700	9770	8860	8910	8470	8830	8080	10500	5910	6760	6460	8580
20	10600	9660	8990	8460	8630	9130	8110	10400	5650	6710	6440	7840
21	10300	9780	8270	8310	9060	9160	8630	9210	5870	6520	6610	7860
22	10500	9620	8840	8570	8720	8860	8650	9780	5750	6380	6830	7770
23	10100	9710	8690	8730	8530	8740	8390	7720	5670	6310	6750	8310
24	10700	9340	8410	8600	8760	8760	8300	8030	5630	6490	6950	7930
25	10200	9260	8500	8420	8720	8470	8220	7700	5800	6350	7050	8210
26	10700	9210	8810	8290	8450	8840	7460	7850	5920	6180	7030	7950
27	10800	9390	8650	8940	8720	8670	7380	7800	6130	5830	7200	7900
28	10800	9760	8610	8870	8730	8070	7330	7640	6360	6060	7030	8030
29	10900	9590	8520	8070	---	8430	7370	7240	5810	5980	7150	8020
30	9610	9950	8410	8810	---	8340	7320	7120	6220	6060	7050	7890
31	10000	---	8470	8280	---	8120	---	7400	---	6300	7140	---
TOTAL	347810	299420	281540	265980	239200	273340	244610	246830	191190	195610	203200	235290
MEAN	11220	9981	9082	8580	8543	8817	8154	7962	6373	6310	6555	7843
MAX	13400	11000	12400	9020	9060	9630	9400	10500	7280	6760	7200	8580
MIN	9610	9210	8270	8070	7980	8070	7320	6650	5630	5830	5810	7140
AC-FT	689900	593900	558400	527600	474500	542200	485200	489600	379200	388000	403000	466700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2001, BY WATER YEAR (WY)

MEAN	12420	12960	13470	14710	15760	18340	20850	19670	16860	8924	8788	10730
MAX	21360	24660	24320	30290	38580	40010	43970	49060	41100	16480	12620	17110
(WY)	1985	1985	1984	1984	1997	1986	1984	1984	1984	1983	1997	1997
MIN	8102	8924	8902	8580	8543	8018	6033	5367	5223	5546	5075	6664
(WY)	1993	1993	1993	2001	2001	1991	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1975 - 2001	
ANNUAL TOTAL	4052290		3024020			
ANNUAL MEAN	11070		8285		14400	
HIGHEST ANNUAL MEAN					26260	1984
LOWEST ANNUAL MEAN					7365	1992
HIGHEST DAILY MEAN	18200	Apr 14	13400	Oct 13	57400	Apr 20 1984
LOWEST DAILY MEAN	6440	Jun 26	5630	Jun 24	4240	Jun 7 1992
ANNUAL SEVEN-DAY MINIMUM	6680	Jun 20	5750	Jun 19	4520	Jun 6 1992
ANNUAL RUNOFF (AC-FT)	8038000		5998000		10430000	
10 PERCENT EXCEEDS	16000		10400		26800	
50 PERCENT EXCEEDS	10400		8360		11100	
90 PERCENT EXCEEDS	7890		6330		7350	

SNAKE RIVER MAIN STEM

13213100 SNAKE RIVER AT NYSSA, OR--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1989 to September 1990, October 1992 to September 1993, April 1996 to September 1997, June to September 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: August to September 1989.
pH: May to September 1989.
WATER TEMPERATURE: April to September 1989, August to September 1997, June to September 1998, April to September 2000 (discontinued).
DISSOLVED OXYGEN: August to September 1989.

INSTRUMENTATION.--Water-quality monitor, temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 544 microsiemens/cm Sep. 3; minimum, 507 microsiemens/cm Sep. 19, 1989.
pH: Maximum, 9.82 units May 29; minimum, 8.00 units Aug. 26, 1989.
WATER TEMPERATURE: Maximum, 26.9 °C July 27-28, 1998.
DISSOLVED OXYGEN: Maximum, 13.8 mg/L Aug. 11; minimum, 6.7 mg/L Sep. 3, 1989.

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles.
MESH SIZE.--425 um.

AVERAGE DEPTH.--0.30 m.

AVERAGE PERCENT SHADING.--22.

AVERAGE VELOCITY.-- 0.81 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--4-5.

PERCENT FINES AVERAGE.--16.

BIOLOGICAL DATA, JULY 2000
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE July 6	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION
NON-INSECTS			
Turbellaria		240	4.48
Lumbriculidae		32	0.60
Corbicula fluminea		16	0.30
Potamopyrgus antipodarum		24	0.45
Fluminicola n.sp. near fuscus		152	2.84
Acari		16	0.30
ODONATA			
Ophiogomphus		8	0.15
EPHEMEROPTERA			
Acentrella insignificans		336	6.27
Baetis tricaudatus		344	6.42
Camelobaetidius		8	0.15
Stenonema		56	1.04
Ephoron		32	0.60
Tricorythodes		728	13.58
TRICHOPTERA			
Culoptila		16	0.30
Protoptila		56	1.04
Cheumatopsyche		528	9.85
Hydropsyche		2328	43.43
Nectopsyche		16	0.30
LEPIDOPTERA			
Petrophila		56	1.04
COLEOPTERA			
Microcylloepus		96	1.79
DIPTERA			
Hemerodromia		8	0.15
Simulium		128	2.39
CHIRONOMIDAE			
Cricotopus		40	0.75
Cricotopus Trifascia group		24	0.45
Phaenopsectra		16	0.30
Polypedilum		56	1.04

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 26
TOTAL INDIVIDUALS 5,360

MALHEUR RIVER BASIN

13233300 MALHEUR RIVER BELOW NEVADA DAM NEAR VALE, OR

LOCATION.--Lat 43°59'20", long 117°13'10", in NE¼SW¼ sec.21, T.18 S., R.45 E., Malheur County, Hydrologic Unit 17050117, on right bank, 510 ft downstream from dam and headgates of Nevada Canal, and 1.5 mi northeast of Vale, Oregon.

DRAINAGE AREA.--3,880 mi^2, approximately.

PERIOD OF RECORD.--June 1926 to September 1934, October 1950 to September 1954, October 1993 to current year. Monthly discharge only for 1936-42, 1944-50, furnished by the State Engineer of Oregon, published in WSP 1317.

GAGE.--Water-stage recorder. Elevation of gage is 2,220 ft above sea level, from topographic map. Prior to Nov. 17, 1930, at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Many diversions for irrigation above station. Since March 1930, Vale-Oregon Canal has diverted in sec.31 T.20 S., R.41 E., for irrigation above station and on Willow Creek, a tributary which enters partly above and partly below station. Gillerman-Frohman Canal diverts on left bank in sec.8, T.19 S., R.44 E., for irrigation above and below station. Nevada Canal diverts on right bank 300 ft above station for irrigation below station. Flow regulated by Warmsprings Reservoir and, since December 1935, by Beulah Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,530 ft^3/s Feb. 28, 1940, gage height, 8.88 ft; no flow at times some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 24, 1957 reached a stage of 14.6 ft, discharge 21,000 ft^3/s. Flood of Mar. 19, 1993 reached a stage of 13.31 ft, discharge 16,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 476 ft^3/s Mar. 20; minimum daily, 0.53 ft^3/s Sept. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	190	157	135	93	106	100	41	11	11	52	3.7
2	225	188	159	133	93	106	99	29	7.7	20	36	2.3
3	228	185	153	129	98	105	97	11	6.7	22	17	1.2
4	229	183	154	122	97	103	91	6.8	31	16	13	1.1
5	224	186	149	112	97	102	84	9.2	56	13	20	.96
6	226	185	148	118	97	115	79	19	73	11	18	2.2
7	223	181	151	117	93	130	78	45	65	25	18	1.1
8	223	184	152	118	93	168	78	41	43	31	12	.72
9	225	188	152	131	94	236	79	18	34	40	9.7	.83
10	233	187	153	133	91	264	48	12	17	44	9.7	1.6
11	255	182	149	134	98	264	69	12	14	36	6.4	.88
12	301	181	145	149	93	266	62	32	32	29	6.3	.59
13	296	180	149	169	92	228	48	82	43	27	6.1	.53
14	289	180	147	150	90	248	45	94	41	37	2.6	1.7
15	276	180	154	143	90	286	46	86	43	51	1.9	4.5
16	220	177	150	128	90	263	51	98	32	75	1.6	5.8
17	194	171	147	115	91	197	46	86	27	64	1.5	5.0
18	177	166	139	123	93	164	21	58	33	40	1.5	4.3
19	185	166	137	130	97	147	22	50	32	33	1.5	3.5
20	183	169	143	117	116	476	14	45	22	51	1.2	1.6
21	178	159	144	110	156	434	14	72	12	57	1.2	1.9
22	174	158	145	106	158	328	11	72	8.2	54	1.2	2.9
23	177	158	141	105	147	237	65	54	7.1	63	.97	4.9
24	217	164	150	102	141	210	32	30	7.8	41	.96	4.8
25	187	166	142	104	146	195	43	14	16	39	.82	3.9
26	214	167	133	102	138	178	24	11	35	30	.82	3.3
27	214	173	135	100	125	164	9.4	23	35	25	1.6	4.4
28	197	169	135	96	112	134	5.4	29	33	24	3.0	4.2
29	199	162	134	94	---	123	82	28	22	19	2.6	5.9
30	193	162	134	91	---	111	51	13	9.8	20	2.7	5.9
31	192	---	134	94	---	101	---	11	---	26	3.6	---
TOTAL	6773	5247	4515	3710	3019	6189	1593.8	1232.0	849.3	1074	255.47	86.21
MEAN	218	175	146	120	108	200	53.1	39.7	28.3	34.6	8.24	2.87
MAX	301	190	159	169	158	476	100	98	73	75	52	5.9
MIN	174	158	133	91	90	101	5.4	6.8	6.7	11	.82	.53
AC-FT	13430	10410	8960	7360	5990	12280	3160	2440	1680	2130	507	171

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

MEAN	181	151	155	347	531	658	661	323	180	116	114	162
MAX	228	175	314	1589	1322	1881	1695	988	541	179	220	300
(WY)	2000	2001	1997	1997	1997	1999	1999	1998	1998	1998	1999	1998
MIN	74.1	100	78.9	120	94.2	65.9	41.5	39.7	28.3	34.2	8.24	2.87
(WY)	1995	1995	1995	2001	1994	1994	1994	2001	2001	1994	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1994 - 2001	
ANNUAL TOTAL	110262		34543.78			
ANNUAL MEAN	301		94.6		297	
HIGHEST ANNUAL MEAN					535	1999
LOWEST ANNUAL MEAN					87.0	1994
HIGHEST DAILY MEAN	1990	Apr 16	476	Mar 20	6230	Jan 3 1997
LOWEST DAILY MEAN	84	Aug 12	.53	Sep 13	.53	Sep 13 2001
ANNUAL SEVEN-DAY MINIMUM	97	Aug 11	.89	Sep 7	.89	Sep 7 2001
ANNUAL RUNOFF (AC-FT)	218700		68520		214900	
10 PERCENT EXCEEDS	726		194		746	
50 PERCENT EXCEEDS	180		91		158	
90 PERCENT EXCEEDS	106		3.7		46	

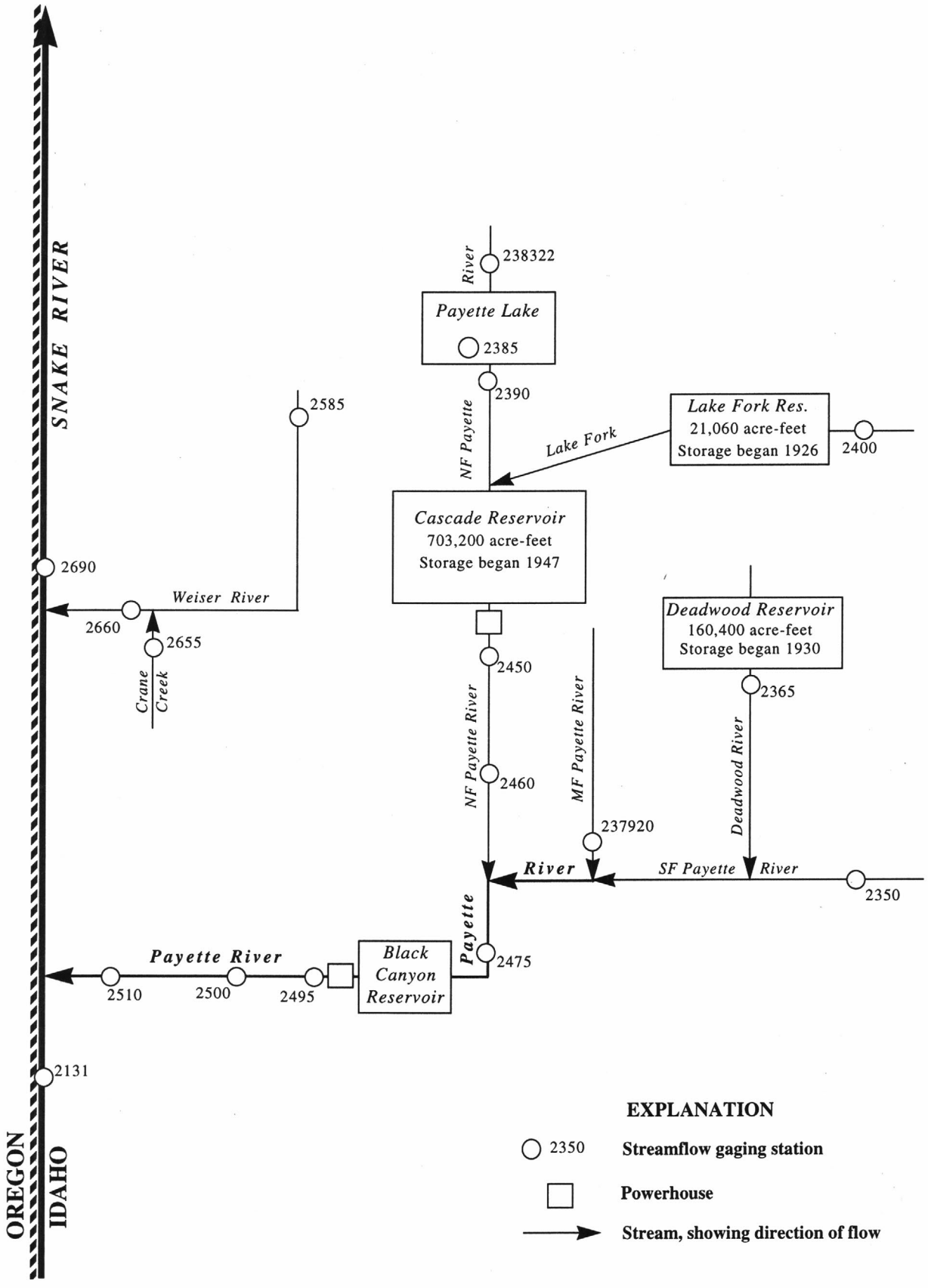


Figure 15. Schematic diagram showing gaging stations in the Payette and Weiser River basins.

PAYETTE RIVER BASIN

13235000 SOUTH FORK PAYETTE RIVER AT LOWMAN, ID

LOCATION.--Lat 44°05'07", long 115°37'16", in SE¼NW¼SW¼ sec.27, T.9 N., R.7 E., Boise County, Hydrologic Unit 17040120, Boise National Forest, on right bank, 1,200 ft upstream from Rock Creek, 0.5 mi northwest of Lowman, 4,100 ft downstream from Clear Creek, and at mile 106.

DRAINAGE AREA.--456 mi^2. Mean elevation, 6,780 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1941 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,790 ft above sea level, from river-profile map. Prior to Dec. 18, 1941, nonrecording gage at site 900 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. No regulation. Return flow from several small irrigation diversions enters river above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,980 ft^3/s June 16, 1974, gage height, 8.36 ft, from floodmark; minimum daily, 130 ft^3/s Dec. 31, 1994.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 16	0930	*2,400	*5.04	No peaks greater than base discharge.			

Minimum daily, 200 ft^3/s Nov. 18, Jan. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	347	276	e240	e300	e260	465	878	1040	482	352	221
2	323	331	e240	e240	e300	e300	456	806	1040	460	327	220
3	307	325	e220	e240	e300	295	418	737	1050	447	312	218
4	304	330	e240	e260	e300	294	415	704	1050	442	308	217
5	301	334	e240	e280	e300	302	401	733	962	433	300	220
6	300	310	e260	e280	e280	312	403	773	913	425	291	305
7	298	300	e260	e260	e240	333	405	783	872	419	284	294
8	296	319	e280	e240	e220	363	389	846	841	421	280	267
9	294	324	e280	e280	e240	410	364	949	835	437	276	259
10	306	314	e260	e300	e260	382	364	1030	845	450	279	250
11	329	303	e240	e300	e280	377	369	1070	850	457	273	243
12	407	295	e240	e300	e280	365	367	1170	957	424	270	241
13	378	284	e280	291	e260	359	352	1440	887	409	273	251
14	367	308	302	285	e280	361	341	1590	807	393	277	264
15	360	301	278	270	308	342	348	2100	747	396	274	251
16	344	e260	e220	206	297	345	363	2270	695	416	269	255
17	336	e240	e240	e200	291	333	396	1940	660	394	260	260
18	331	e200	e220	e220	297	328	439	1660	644	376	253	256
19	329	e220	e220	e240	296	395	481	1550	633	363	252	245
20	327	e240	e240	e280	302	531	491	1460	606	356	251	238
21	434	e260	e280	e280	302	533	494	1360	593	348	248	236
22	386	e280	e280	e280	308	513	479	1300	592	332	246	231
23	358	e260	285	e280	300	508	472	1330	597	323	240	231
24	351	e280	292	e280	298	528	465	1430	581	318	240	227
25	344	e260	e280	e280	292	572	512	1540	558	310	238	226
26	337	289	e220	e280	275	559	630	1620	546	305	234	234
27	357	297	e240	e240	e260	496	805	1590	529	301	229	230
28	344	268	e240	e220	e240	483	986	1470	566	296	225	225
29	409	e240	e260	e240	---	461	937	1330	522	294	225	224
30	382	e300	e260	e280	---	450	871	1190	501	336	225	224
31	361	---	e260	e300	---	441	---	1080	---	415	223	---
TOTAL	10613	8619	7933	8172	7906	12531	14678	39729	22519	11978	8234	7263
MEAN	342	287	256	264	282	404	489	1282	751	386	266	242
MAX	434	347	302	300	308	572	986	2270	1050	482	352	305
MIN	294	200	220	200	220	260	341	704	501	294	223	217
AC-FT	21050	17100	15740	16210	15680	24860	29110	78800	44670	23760	16330	14410
CFSM	.75	.63	.56	.58	.62	.89	1.07	2.81	1.65	.85	.58	.53
IN.	.87	.70	.65	.67	.64	1.02	1.20	3.24	1.84	.98	.67	.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2001, BY WATER YEAR (WY)

MEAN	363	369	358	337	347	454	999	2224	2731	1237	524	386
MAX	598	648	735	894	662	1144	2209	4068	5751	2631	871	539
(WY)	1963	1974	1965	1997	1996	1986	1943	1997	1974	1982	1965	1965
MIN	223	237	220	222	239	229	384	513	651	331	237	230
(WY)	1989	1995	1991	1979	1988	1977	1955	1977	1987	1977	1977	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1942 - 2001	
ANNUAL TOTAL	255881		160175			
ANNUAL MEAN	699		439		862	
HIGHEST ANNUAL MEAN					1410	1997
LOWEST ANNUAL MEAN					352	1977
HIGHEST DAILY MEAN	3120	May 25	2270	May 16	8900	Jun 16 1974
LOWEST DAILY MEAN	200	Nov 18	200	Nov 18	130	Dec 31 1994
ANNUAL SEVEN-DAY MINIMUM	243	Dec 15	221	Aug 30	154	Dec 29 1994
ANNUAL RUNOFF (AC-FT)	507500		317700		624300	
ANNUAL RUNOFF (CFSM)	1.53		.96		1.89	
ANNUAL RUNOFF (INCHES)	20.87		13.07		25.68	
10 PERCENT EXCEEDS	1770		858		2240	
50 PERCENT EXCEEDS	378		308		428	
90 PERCENT EXCEEDS	280		240		270	

e Estimated

PAYETTE RIVER BASIN

13235000 SOUTH FORK PAYETTE RIVER AT LOWMAN, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to 1981, 1992, 1995, April to September 1998, April to September 2001 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1998, April to September 2001 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 22.7 °C Aug. 8, 2001.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 22.7 °C Aug. 8.

WATER-QUALITY DATA, APRIL TO SEPTEMBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)
APR										
09...	1310	345	91	7.9	5.0	5.4	4.5	11.9	108	<1
MAY										
08...	1620	844	86	8.0	24.5	10.2	1.5	10.2	104	<1
JUN										
05...	1415	940	56	7.7	15.0	7.4	--	10.9	105	--
JUL										
10...	1530	438	76	8.4	31.0	19.2	7.1	10.0	125	18
AUG										
06...	1600	303	89	8.5	38.0	20.6	1.5	7.6	96.2	S4
SEP										
24...	1325	228	99	8.3	31.5	13.4	2.3	10.6	117	S2

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)	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)
SEP													
24...	39.3	14.0	1.03	5.5	23.0	.50	52	0	42	3.3	.6	1.1	12.4

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR							
09...	.003	E.08	.049	<.007	E.003	1	.92
MAY							
08...	<.002	.10	.066	<.007	.006	5	12
JUN							
05...	.004	E.04	.024	<.007	.005	3	8.0
JUL							
10...	.010	.15	.011	<.007	.017	12	14
AUG							
06...	.002	.08	<.005	<.007	<.004	1	.82
SEP							
24...	.005	E.06	.008	<.007	E.003	1	.62

< Less than
E Estimated value
S Most probable value

13235000 SOUTH FORK PAYETTE RIVER AT LOWMAN, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, JULY TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	8.4	5.7	6.8
2	---	---	---	---	---	---	---	---	---	7.0	3.1	5.2
3	---	---	---	---	---	---	---	---	---	9.9	3.5	6.6
4	---	---	---	---	---	---	---	---	---	11.5	5.6	8.5
5	---	---	---	---	---	---	---	---	---	12.1	7.7	9.7
6	---	---	---	---	---	---	---	---	---	10.2	5.3	7.9
7	---	---	---	---	---	---	---	---	---	11.6	5.4	8.5
8	---	---	---	---	---	---	---	---	---	10.8	7.1	9.3
9	---	---	---	---	---	---	---	---	---	10.7	7.4	9.3
10	---	---	---	---	---	---	---	---	---	11.3	6.2	8.8
11	---	---	---	---	---	---	---	---	---	11.8	6.3	9.3
12	---	---	---	---	---	---	---	---	---	12.4	7.4	10.1
13	---	---	---	---	---	---	---	---	---	12.1	8.4	10.1
14	---	---	---	---	---	---	---	---	---	10.2	7.0	8.7
15	---	---	---	---	---	---	---	---	---	9.0	7.0	7.6
16	---	---	---	---	---	---	---	---	---	9.7	6.3	7.7
17	---	---	---	---	---	---	---	---	---	9.4	4.8	7.2
18	---	---	---	---	---	---	---	---	---	11.6	6.5	9.1
19	---	---	---	---	---	---	---	---	---	10.5	6.7	8.8
20	---	---	---	---	---	---	---	---	---	11.0	6.5	8.9
21	---	---	---	---	---	---	---	---	---	11.2	5.7	8.6
22	---	---	---	---	---	---	---	---	---	13.0	7.3	10.2
23	---	---	---	---	---	---	---	---	---	13.9	8.5	11.4
24	---	---	---	---	---	---	11.9	4.9	8.3	14.2	9.1	12.0
25	---	---	---	---	---	---	13.3	7.1	10.2	14.2	9.7	12.3
26	---	---	---	---	---	---	11.5	7.7	9.9	13.3	9.7	11.7
27	---	---	---	---	---	---	11.5	7.7	9.6	13.8	9.3	11.6
28	---	---	---	---	---	---	9.6	6.7	7.7	13.5	9.3	11.6
29	---	---	---	---	---	---	8.2	5.1	6.8	12.7	8.8	11.1
30	---	---	---	---	---	---	8.4	6.2	7.3	12.7	7.7	10.5
31	---	---	---	---	---	---	---	---	---	14.7	9.0	11.9
MONTH	---	---	---	---	---	---	---	---	---	14.7	3.1	9.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.7	10.1	12.8	20.8	14.6	17.6	18.4	12.7	15.6	19.8	13.8	16.8
2	14.7	11.5	13.2	21.1	14.9	18.1	20.7	13.8	17.1	19.5	13.6	16.6
3	12.5	7.9	9.7	21.5	15.0	18.4	20.2	15.0	17.5	19.4	13.2	16.3
4	8.7	6.3	7.3	21.6	17.3	19.4	19.7	16.1	17.8	18.1	13.2	15.9
5	8.2	5.9	7.1	21.8	17.7	19.7	20.5	13.8	17.1	17.9	13.5	15.5
6	12.1	7.6	9.6	22.0	16.9	19.4	21.8	14.6	18.1	15.0	12.1	13.3
7	14.4	8.8	11.5	19.5	15.8	16.6	21.6	15.7	18.5	14.6	9.9	12.1
8	15.7	10.5	13.2	20.7	15.0	17.3	22.7	16.0	19.2	14.6	8.7	11.6
9	16.0	11.3	13.9	19.0	15.5	17.3	19.5	15.5	17.3	14.9	9.0	12.0
10	15.3	11.0	13.4	20.7	14.2	17.0	21.3	14.9	18.0	15.8	9.7	12.9
11	14.1	12.1	12.9	20.7	15.3	17.9	21.8	15.7	18.8	16.8	10.8	13.7
12	12.7	9.7	11.1	22.0	16.5	18.9	20.0	15.3	18.1	16.9	12.5	14.7
13	11.5	7.4	9.4	20.7	16.3	18.4	20.7	15.0	18.0	17.1	13.0	14.7
14	13.0	7.6	10.4	21.1	15.5	18.2	21.0	15.3	18.1	18.1	13.0	15.3
15	15.0	9.3	12.1	19.2	15.2	17.1	20.3	15.8	17.9	17.4	13.0	15.1
16	15.7	9.6	12.7	17.4	15.2	16.0	21.0	14.6	17.8	15.7	12.4	14.1
17	16.0	11.5	13.9	17.3	13.2	15.2	21.1	14.9	18.2	16.6	11.6	14.0
18	15.3	10.7	13.1	17.7	12.9	15.4	21.0	14.9	17.9	15.5	11.5	13.5
19	15.8	9.7	12.8	18.4	13.2	16.1	20.2	14.1	17.2	15.7	11.2	13.3
20	17.3	11.0	14.2	19.8	14.2	16.9	19.4	12.9	16.1	14.2	9.3	12.0
21	18.9	12.5	15.7	20.0	13.9	16.9	19.4	12.9	16.2	14.2	9.3	11.9
22	19.4	13.6	16.5	20.0	13.6	16.9	17.7	13.0	15.7	14.1	9.0	11.7
23	17.7	14.2	16.2	20.7	14.1	17.4	18.4	12.5	15.5	14.2	9.3	11.9
24	18.1	12.7	15.4	20.8	14.4	17.7	19.0	12.5	15.8	15.3	10.2	12.8
25	16.3	12.4	14.6	21.1	14.7	18.0	18.9	12.5	15.9	13.8	10.4	11.7
26	17.7	12.7	15.2	20.7	14.4	17.6	19.7	12.9	16.3	14.6	10.4	12.1
27	16.0	13.6	14.6	20.5	13.6	17.2	20.3	13.6	17.0	13.8	9.1	11.7
28	19.4	13.3	15.8	20.0	14.2	17.2	19.8	13.6	16.8	14.7	10.8	12.6
29	20.2	13.9	17.0	18.5	13.3	16.3	19.7	13.3	16.6	14.1	9.9	12.1
30	19.0	14.6	16.9	16.9	13.5	15.0	19.0	13.3	16.2	13.3	8.7	11.2
31	---	---	---	17.9	12.1	14.8	19.4	13.5	16.4	---	---	---
MONTH	20.2	5.9	13.1	22.0	12.1	17.3	22.7	12.5	17.2	19.8	8.7	13.4

PAYETTE RIVER BASIN

13235000 SOUTH FORK PAYETTE RIVER AT LOWMAN, ID--Continued

COLLECTION METHODS.--Electrofishing; tow barge (12A).

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.

BIOLOGICAL DATA, JULY 2001
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
	July 19								
Cottidae (Sculpins)									
Cottus confusus									
(Shorthead sculpin)		116	73	45-98	1-12	NATIVE	INVERTIVORE	COLD	116-AA
Cyprinidae (Carps and minnows)									
Rhinichthys cataractae									
(Longnose dace)		12	8	45-120	1-10	NATIVE	INVERTIVORE	COLD	12-AA
Salmonidae (Trouts)									
Oncorhynchus mykiss sp.									
(Rainbow trout)		28	18	76-205	5-69	NATIVE	INVERTIVORE	COLD	28-AA
Prosopium williamsoni									
(Mountain whitefish)		2	1	90-315	5-265	NATIVE	INVERTIVORE	COLD	2-AA

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 4
TOTAL INDIVIDUALS 158

PAYETTE RIVER BASIN

13236500 DEADWOOD RIVER BELOW DEADWOOD RESERVOIR, NEAR LOWMAN, ID

LOCATION.--Lat 44°17'30", long 115°38'33", in SE¼NE¼ sec.17, T.11 N., R.7 E., Valley County, Hydrologic Unit 17050120, Boise National Forest, on right bank, 300 ft upstream from Wilson Creek, 0.2 mi downstream from Deadwood Dam, 15 mi north of Lowman, and at mile 23.4.

DRAINAGE AREA.--112 mi^2. Mean elevation, 6,630 ft.

PERIOD OF RECORD.--October 1926 to current year. Monthly discharge only prior to May 1927, published in WSP 1317. Published as "at Beaver Creek Ranger Station, near Lowman" prior to October 1934.

REVISED RECORDS.--WSP 1123: 1943. WSP 1517: 1956. WSP 1567: Drainage area. WDR-ID-2000-2: 1997.

GAGE.--Water-stage recorder. Datum of gage is 5,180.52 ft above sea level (levels by U.S. Bureau of Reclamation). U.S. Geological Survey datum is 29.19 ft higher. Prior to June 22, 1935, at site 600 ft upstream at datum 5.85 ft higher and Oct. 1, 1935 to Aug. 3, 1955, at present site at datum 1.00 ft higher. June 22 to Sept. 30, 1935, nonrecording gage at site 20 ft upstream at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Deadwood Reservoir beginning November 1930 (see sta 13236000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1927-30), 2,150 ft^3/s May 26, 1928, gage height, 5.67 ft, site and datum then in use; minimum daily, 35 ft^3/s Nov. 21, 1929. Maximum discharge since regulation began in 1931, 2,580 ft^3/s July 14, 1953, maximum gage height, 9.09 ft, June 1, 1983; no flow or small amount of leakage from reservoir for long periods in 1934-37, 1993, 1994, when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 622 ft^3/s July 15; minimum daily, 48 ft^3/s Aug. 29 to Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	54	54	54	52	52	53	50	54	413	570	48
2	56	54	54	54	52	52	53	50	65	439	569	48
3	56	54	54	54	52	52	53	50	155	469	568	48
4	56	54	54	54	52	52	53	50	154	469	567	48
5	56	54	54	55	52	52	52	50	154	468	566	48
6	56	54	54	55	52	52	52	50	167	502	565	48
7	56	54	54	55	52	52	52	50	284	536	565	48
8	56	54	54	55	52	52	52	50	469	584	568	48
9	56	54	54	56	52	52	52	50	468	566	576	48
10	56	54	54	55	52	52	52	50	467	518	575	48
11	56	54	54	55	52	53	52	50	467	507	573	48
12	56	54	54	56	52	53	52	50	467	520	572	48
13	56	54	54	56	52	53	52	50	400	539	570	48
14	56	54	54	56	52	53	52	52	169	604	569	48
15	56	54	54	56	52	53	52	54	110	622	568	48
16	56	54	54	56	52	53	52	54	110	606	566	48
17	56	54	54	56	52	53	52	54	110	572	564	48
18	56	54	54	56	52	53	51	54	109	571	562	48
19	56	54	54	56	52	53	51	54	185	570	577	48
20	56	54	54	57	52	54	51	54	326	569	582	48
21	56	54	54	57	52	54	51	54	326	568	579	48
22	56	54	54	54	53	54	51	54	325	567	577	48
23	56	54	54	52	53	54	51	54	326	566	575	48
24	56	54	54	52	52	54	51	54	426	566	573	48
25	56	54	54	52	52	54	50	54	427	565	571	48
26	56	54	54	52	52	53	50	54	427	563	569	48
27	56	54	54	52	52	53	50	54	521	563	482	48
28	55	54	54	52	52	53	50	54	522	561	271	48
29	55	54	54	52	---	53	50	54	452	570	48	48
30	55	54	54	52	---	53	50	54	413	572	48	48
31	54	---	54	52	---	53	---	54	---	571	48	---
TOTAL	1731	1620	1674	1686	1458	1639	1545	1620	9055	16876	15733	1440
MEAN	55.8	54.0	54.0	54.4	52.1	52.9	51.5	52.3	302	544	508	48.0
MAX	56	54	54	57	53	54	53	54	522	622	582	48
MIN	54	54	54	52	52	52	50	50	54	413	48	48
AC-FT	3430	3210	3320	3340	2890	3250	3060	3210	17960	33470	31210	2860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1930, BY WATER YEAR (WY) (UNREGULATED)

MEAN	72.0	91.2	82.7	62.5	65.7	89.7	219	794	742	223	96.0	76.1
MAX	107	173	107	85.0	75.0	135	393	1411	1514	444	147	115
(WY)	1928	1928	1928	1928	1927	1928	1930	1928	1927	1927	1927	1927
MIN	54.3	49.8	47.7	45.0	55.2	61.9	104	470	368	115	67.8	56.4
(WY)	1930	1930	1929	1930	1930	1929	1929	1929	1930	1930	1930	1929

SUMMARY STATISTICS	[a] WATER YEARS 1927 - 1930	
ANNUAL MEAN	218	
HIGHEST ANNUAL MEAN	303	1927
LOWEST ANNUAL MEAN	142	1929
HIGHEST DAILY MEAN	2100	May 26 1928
LOWEST DAILY MEAN	35	Nov 21 1929
ANNUAL SEVEN-DAY MINIMUM	39	Nov 19 1929
ANNUAL RUNOFF (AC-FT)	158100	
10 PERCENT EXCEEDS	544	
50 PERCENT EXCEEDS	88	
90 PERCENT EXCEEDS	50	

PAYETTE RIVER BASIN

13236500 DEADWOOD RIVER BELOW DEADWOOD RESERVOIR, NEAR LOWMAN, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2001, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	96.4	20.7	29.5	21.9	24.4	30.2	82.5	187	509	585	707	488
MAX	716	184	412	284	776	650	684	927	1595	1259	1424	1435
(WY)	1944	1939	1939	1997	1997	1997	1971	1946	1984	1973	1951	1956
MIN	.000	.000	.000	.000	.50	.84	.96	.99	1.00	32.5	132	1.70
(WY)	1936	1935	1935	1935	1934	1987	1982	1982	1932	1932	1941	1988

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		[b] WATER YEARS 1931 - 2001	
ANNUAL TOTAL	78866		56077			
ANNUAL MEAN	215		154		233	
HIGHEST ANNUAL MEAN					441	1951
LOWEST ANNUAL MEAN					104	1931
HIGHEST DAILY MEAN	929	Sep 1	622	Jul 15	2220	May 31 1983
LOWEST DAILY MEAN	44	Jan 15	48	Aug 29	.00	Oct 1 1934
ANNUAL SEVEN-DAY MINIMUM	44	Jan 15	48	Aug 29	.00	Oct 6 1934
ANNUAL RUNOFF (AC-FT)	156400		111200		168700	
10 PERCENT EXCEEDS	623		566		875	
50 PERCENT EXCEEDS	56		54		4.0	
90 PERCENT EXCEEDS	45		50		1.2	

a Unregulated.
b Regulated by Deadwood Reservoir.

PAYETTE RIVER BASIN

13237920 MIDDLE FORK PAYETTE RIVER NEAR CROUCH, ID

LOCATION.--Lat 44°06'50", long 115°58'20", in NW¼SE¼SE¼ sec.16, T.9 S., R.4 E., Boise County, Hydrologic Unit 17050121, on left bank at State Highway 17, 10 ft downstream from bridge, 1.0 mi downstream from Anderson Creek, 0.7 mi southwest of Crouch, and at mile 1.4.

DRAINAGE AREA.--340 mi^2, approximately.

PERIOD OF RECORD.--July 1970 (discharge measurement only), October 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,040 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,700 ft^3/s Apr. 13, 2000, gage height, 4.63 ft; minimum daily, 60 ft^3/s Sept. 4, 5, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 971 ft^3/s May 15, gage height, 3.32 ft; minimum daily, 60 ft^3/s Sept. 4, 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	139	122	145	e130	e130	347	544	327	133	107	62
2	108	e130	e120	e140	e120	151	352	467	306	127	91	62
3	97	e120	e120	e140	110	127	e300	424	305	120	88	61
4	96	e130	e130	e150	113	123	e300	409	330	117	87	60
5	94	127	e130	e160	117	132	e260	422	320	116	85	60
6	93	118	e140	e150	e110	150	260	422	309	118	83	98
7	96	e110	e140	e130	e100	173	289	404	283	116	82	96
8	99	119	e150	e120	e90	206	276	420	255	119	80	74
9	98	127	e150	129	e100	279	243	440	236	119	78	70
10	99	121	e130	147	e110	257	247	450	221	116	78	69
11	112	e120	e120	122	e110	229	247	458	214	113	76	66
12	157	e120	e120	130	e110	210	241	488	245	107	74	66
13	163	e110	130	138	e100	201	230	562	232	103	73	75
14	140	e130	135	129	e110	201	222	607	210	100	72	129
15	136	e130	125	e120	e120	e190	220	841	200	99	72	95
16	122	e110	125	e90	e110	194	230	883	189	104	72	87
17	116	e100	128	81	e110	182	273	787	180	106	70	81
18	113	e90	e120	e100	111	175	338	688	173	101	68	74
19	112	e100	e120	e120	115	222	380	626	168	99	66	71
20	113	e110	e130	e130	118	343	380	579	164	98	66	68
21	187	e120	e150	e120	122	374	380	538	156	96	66	67
22	180	137	147	119	131	357	376	517	150	93	66	67
23	e140	134	144	e120	134	363	348	517	144	90	67	67
24	127	145	150	e120	130	419	341	528	142	91	66	66
25	123	157	146	112	e130	487	392	542	138	89	67	65
26	127	147	133	e110	e130	507	505	534	138	87	67	73
27	150	154	153	e100	e120	407	628	501	143	83	64	74
28	135	132	159	e90	e110	360	679	462	191	78	62	71
29	218	123	153	e100	---	327	591	419	155	77	62	69
30	197	144	157	e120	---	309	528	379	139	91	63	69
31	155	---	159	e130	---	298	---	348	---	123	63	---
TOTAL	4000	3754	4236	3812	3221	8083	10403	16206	6363	3229	2281	2212
MEAN	129	125	137	123	115	261	347	523	212	104	73.6	73.7
MAX	218	157	159	160	134	507	679	883	330	133	107	129
MIN	93	90	120	81	90	123	220	348	138	77	62	60
AC-FT	7930	7450	8400	7560	6390	16030	20630	32140	12620	6400	4520	4390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	118	132	144	145	185	333	673	718	324	129	85.1	90.6
MAX	129	140	151	166	253	405	998	914	436	155	96.6	107
(WY)	2001	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	107	125	137	123	115	261	347	523	212	104	73.6	73.7
(WY)	2000	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL TOTAL	119404		67800			
ANNUAL MEAN	326		186		256	
HIGHEST ANNUAL MEAN					327	2000
LOWEST ANNUAL MEAN					186	2001
HIGHEST DAILY MEAN	1490	Apr 14	883	May 16	1490	Apr 14 2000
LOWEST DAILY MEAN	86	Aug 29	60	Sep 4	60	Sep 4 2001
ANNUAL SEVEN-DAY MINIMUM	87	Aug 25	62	Aug 30	62	Aug 30 2001
ANNUAL RUNOFF (AC-FT)	236800		134500		185700	
10 PERCENT EXCEEDS	906		408		628	
50 PERCENT EXCEEDS	162		130		142	
90 PERCENT EXCEEDS	98		72		90	

e Estimated

PAYETTE RIVER BASIN

13238322 NORTH FORK PAYETTE RIVER BELOW FISHER CREEK, NEAR MCCALL, ID

LOCATION.--Lat 45°02'05", long 116°03'30", in NW¼NE¼NW¼ sec.35, T.20 N., R.3 E., Valley County, Hydrologic Unit 17050123, on right bank, 0.2 mi downstream from Fisher Creek, 3.0 mi upstream from the north end of Payette Lake, 8.6 mi north of McCall.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 5,020 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Partial regulation for irrigation supply from Upper Payette Lake (usable storage capacity 3,000 acre-feet), Granite Lake (usable storage capacity 2,900 acre-feet) and Box Lake (usable storage capacity 1,295 acre-feet).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,570 ft³/s May 18, 1996, gage height, 8.76 ft; minimum daily, 4.4 ft³/s Oct. 9, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,960 ft³/s May 15, gage height, 7.78 ft; minimum daily, 5.9 ft³/s Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	68	e22	e22	e32	e30	101	788	121	77	72	28
2	53	58	e22	e20	e32	e32	99	497	111	65	70	26
3	44	54	e22	e22	e32	e32	e85	392	103	56	68	25
4	37	54	e22	e24	e32	e32	e90	495	116	50	67	24
5	23	53	e20	e24	e34	e34	e85	727	171	46	66	23
6	20	e48	e20	e20	e32	e34	81	723	374	48	64	25
7	19	e38	e22	e18	e30	e32	83	751	282	43	62	25
8	18	e34	e22	e17	e26	e32	76	982	197	39	60	27
9	17	e32	e22	e20	e36	e32	e70	1100	185	37	64	25
10	18	e28	e22	e26	e40	e32	e70	1060	165	33	70	23
11	25	e28	e19	e24	e38	e30	74	1140	197	30	68	19
12	30	e26	e18	e24	e36	e30	68	1380	310	29	66	17
13	38	e22	e20	e24	e34	e30	65	1480	271	28	64	16
14	46	e26	e22	e22	e30	e30	e60	1410	209	26	63	16
15	47	e26	e20	e20	e34	e26	e65	2270	168	30	65	15
16	46	e22	e20	e19	e36	e30	82	1840	134	36	63	20
17	47	e20	e22	e20	e36	30	131	1090	120	45	60	20
18	47	e20	e22	e22	e36	29	186	888	112	37	58	12
19	43	e20	e22	e24	e36	e40	218	826	105	34	57	10
20	42	e22	e22	e24	e36	e50	179	736	84	33	55	9.1
21	115	e22	e24	e26	e36	e50	152	650	85	31	53	8.2
22	94	e22	e24	e26	e36	e50	146	730	86	28	51	7.2
23	76	e22	e24	e24	e36	e60	143	792	75	26	48	6.9
24	72	e24	e24	e24	e34	e80	205	848	70	24	47	6.6
25	67	e22	e22	e26	e32	e90	407	839	66	23	45	6.7
26	63	e22	e20	e24	e30	e100	687	721	62	23	42	7.0
27	71	e22	e22	e22	e30	e110	977	600	72	22	41	7.0
28	76	e20	e20	e26	e28	124	1030	503	247	21	39	6.5
29	99	e22	e24	e30	---	111	700	338	128	21	36	6.2
30	87	e22	e24	e34	---	106	588	137	95	26	34	5.9
31	76	---	e24	e32	---	106	---	127	---	50	30	---
TOTAL	1606	919	675	730	940	1634	7003	26860	4521	1117	1748	473.3
MEAN	51.8	30.6	21.8	23.5	33.6	52.7	233	866	151	36.0	56.4	15.8
MAX	115	68	24	34	40	124	1030	2270	374	77	72	28
MIN	17	20	18	17	26	26	60	127	62	21	30	5.9
AC-FT	3190	1820	1340	1450	1860	3240	13890	53280	8970	2220	3470	939

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

MEAN	38.6	99.8	103	95.1	70.2	105	409	1382	1050	168	62.0	48.0
MAX	74.7	278	399	389	130	202	634	1847	1718	265	92.7	85.9
(WY)	1996	1997	1996	1997	1996	1995	2000	1997	1999	1999	1997	1995
MIN	13.5	23.2	21.8	22.6	24.1	36.3	233	866	151	36.0	25.5	15.8
(WY)	2000	1999	2001	1999	1999	1999	2001	2001	2001	2001	2000	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1995 - 2001	
ANNUAL TOTAL	84432		48226.3			
ANNUAL MEAN	231		132		303	
HIGHEST ANNUAL MEAN					416	1997
LOWEST ANNUAL MEAN					132	2001
HIGHEST DAILY MEAN	2090	May 17	2270	May 15	3560	May 15 1996
LOWEST DAILY MEAN	15	Sep 17	5.9	Sep 30	4.4	Oct 9 1994
ANNUAL SEVEN-DAY MINIMUM	20	Oct 5	6.6	Sep 24	4.7	Oct 4 1994
ANNUAL RUNOFF (AC-FT)	167500		95660		219600	
10 PERCENT EXCEEDS	933		321		982	
50 PERCENT EXCEEDS	44		36		71	
90 PERCENT EXCEEDS	22		20		22	

e Estimated

13238322 NORTH FORK PAYETTE RIVER BELOW FISHER CREEK NEAR MCCALL--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	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)
OCT										
24...	1130	73	8.0	3.0	16	.024	<.002	.14	.008	<.007
DEC										
05...	1100	79	-4.0	0	23	.065	<.002	.09	.005	<.007
MAR										
13...	1000	33	2.0	.5	23	.062	.005	.10	E.002	<.007
APR										
25...	1305	322	15.0	4.2	18	.074	.002	.14	.006	<.007
JUN										
20...	2010	84	21.0	17.4	17	<.005	.004	.52	.004	<.007
AUG										
09...	1100	61	24.0	15.4	17	.005	<.002	.16	E.003	<.007

E Estimated value

PAYETTE RIVER BASIN

13238500 PAYETTE LAKE AT MCCALL, ID

LOCATION.--Lat 44°54'50", long 116°07'10", in NW¼ sec.8, T.18 N., R.3 E., Valley County, Hydrologic Unit 17050123, at outlet of lake, on North Fork Payette River at McCall, and at mile 75.4.

DRAINAGE AREA.--144 mi^2.

PERIOD OF RECORD.--August 1921 to current year (fragmentary prior to Nov. 23, 1943). Prior to October 1942, published as "at Lardo".

REVISED RECORDS.--WSP 753: 1931. WSP 1013: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,981.73 ft above sea level. Prior to Aug. 26, 1931, nonrecording gage at site 25 ft downstream at datum 3.0 ft higher. Aug. 26, 1931 to Nov. 22, 1943, nonrecording gage at site 75 ft downstream at datum 1.0 ft higher. November 23, 1943 to September 30, 1984, at present site at datum 1.0 ft higher.

REMARKS.--Station equipment includes satellite telemetry. Flow from Payette Lake is regulated within natural range by tainter gates and removable stoplogs of a buttress and slab-type dam completed in November 1943. During period 1923-43 lake was regulated by structure consisting of a series of concrete-filled cribs supporting removable flashboards. Some regulation is reported to have been affected by timber flashboards for several years prior to 1923. Lake area is approximately 5,000 acres. No capacity table has been developed. Water is used for irrigation in vicinity of Emmett. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 8.75 ft, July 13, 1935; minimum, 0.84 ft, Nov. 30, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.09 ft, June 12, 13; minimum, 0.99 ft, Feb. 28, Mar. 1.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.18	1.98	1.20	1.08	1.05	1.01	1.59	3.30	6.41	6.87	5.84	4.30
2	4.13	1.92	1.19	1.08	1.08	1.04	1.63	3.41	6.42	6.85	5.81	4.24
3	4.07	1.86	1.17	1.09	1.07	1.03	1.62	3.47	6.46	6.82	5.76	4.17
4	3.97	1.82	1.16	1.08	1.08	1.03	1.61	3.61	6.54	6.81	5.76	4.13
5	3.87	1.77	1.16	1.09	1.06	1.03	1.60	3.90	6.64	6.78	5.71	4.07
6	3.76	1.72	1.15	1.06	1.05	1.02	1.60	4.17	6.77	6.76	5.68	4.03
7	3.66	1.66	1.13	1.06	1.05	1.02	1.62	4.44	6.86	6.72	5.63	3.95
8	3.57	1.66	1.12	1.05	1.04	1.06	1.61	4.77	6.91	6.69	5.60	3.90
9	3.47	1.62	1.11	1.02	1.06	1.05	1.59	5.11	6.97	6.65	5.55	3.84
10	3.41	1.58	1.11	1.11	1.05	1.07	1.58	5.37	7.01	6.61	5.52	3.79
11	3.30	1.54	1.09	1.06	1.06	1.08	1.59	5.56	7.02	6.60	5.48	3.73
12	3.26	1.50	1.08	1.08	1.05	1.06	1.59	5.75	7.08	6.56	5.45	3.68
13	3.21	1.47	1.09	1.09	1.04	1.07	1.58	5.95	7.03	6.52	5.39	3.63
14	3.14	1.44	1.13	1.10	1.04	1.08	1.56	6.04	7.01	6.54	5.35	3.59
15	3.07	1.41	1.12	1.09	1.03	1.09	1.54	6.56	6.98	6.46	5.29	3.54
16	2.98	1.37	1.12	1.08	1.03	1.09	1.53	6.57	6.98	6.46	5.22	3.50
17	2.92	1.35	1.11	1.07	1.02	1.09	1.56	6.37	6.98	6.40	5.16	3.45
18	2.82	1.33	1.11	1.06	1.02	1.10	1.64	6.36	6.98	6.39	5.11	3.39
19	2.75	1.30	1.10	1.09	1.02	1.12	1.71	6.45	6.98	6.35	5.05	3.32
20	2.74	1.28	1.07	1.09	1.03	1.14	1.78	6.48	6.96	6.32	4.97	3.26
21	2.71	1.27	1.09	1.08	1.03	1.16	1.80	6.45	6.96	6.26	4.92	3.17
22	2.66	1.24	1.12	1.08	1.04	1.19	1.81	6.47	6.94	6.22	4.88	3.11
23	2.60	1.22	1.14	1.07	1.03	1.23	1.84	6.50	6.93	6.18	4.81	3.06
24	2.53	1.23	1.15	1.07	1.03	1.28	1.88	6.54	6.91	6.15	4.75	2.99
25	2.43	1.21	1.14	1.07	1.03	1.38	2.00	6.54	6.88	6.10	4.70	2.94
26	2.33	1.21	1.13	1.07	1.02	1.44	2.24	6.50	6.89	6.06	4.65	2.89
27	2.26	1.23	1.12	1.06	1.02	1.48	2.56	6.43	6.88	6.01	4.60	2.82
28	2.21	1.19	1.11	1.05	1.00	1.53	2.90	6.35	6.94	5.96	4.54	2.77
29	2.16	1.22	1.10	1.06	---	1.54	3.01	6.28	6.92	5.91	4.48	2.72
30	2.10	1.21	1.09	1.05	---	1.55	3.10	6.31	6.90	5.89	4.42	2.66
31	2.04	---	1.10	1.06	---	1.60	---	6.35	---	5.86	4.37	---
MEAN	3.04	1.46	1.12	1.07	1.04	1.18	1.84	5.62	6.87	6.41	5.18	3.49
MAX	4.18	1.98	1.20	1.11	1.08	1.60	3.10	6.57	7.08	6.87	5.84	4.30
MIN	2.04	1.19	1.07	1.02	1.00	1.01	1.53	3.30	6.41	5.86	4.37	2.66

CAL YR 2000 MEAN 3.29 MAX 7.05 MIN 1.07
WTR YR 2001 MEAN 3.21 MAX 7.08 MIN 1.00

PAYETTE RIVER BASIN

13239000 NORTH FORK PAYETTE RIVER AT MCCALL, ID

LOCATION.--Lat 44°54'27", long 116°07'04", in NW¼SE¼SW¼ sec.8, T.18 N., R.3 E., Valley County, Hydrologic Unit 17050123, on left bank, at McCall, 0.2 mi downstream from outlet of Payette Lake, and at mile 75.2.

DRAINAGE AREA.--144 mi^2. Mean elevation, 6,520 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1908 to June 1917, May 1919 to current year. Prior to October 1942, published as "at Lardo".

REVISED RECORDS.--WSP 963: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,967.75 ft above sea level (levels by Idaho Fish and Game). Nonrecording gage at site 1 mi downstream at different datum prior to Oct. 14, 1908, and Oct.14, 1908 to Dec. 18, 1923, at sites near present gage at present datum.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated to some extent since several years prior to 1923 by gates at outlet of Payette Lake 0.2 mi upstream (see sta 13238500) and several smaller lakes upstream. Diversion for fish hatchery bypasses station and is returned below gage. Records of daily discharge of this diversion published in annual Water-Supply Papers from October 1942 to February 1953. Diversions since 1980 not comparable.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,950 ft^3/s June 19, 1974, gage height, 8.16 ft; no flow Nov. 5-8, 1931, Nov. 17-24, 1933, Nov. 14-27, 1935, Oct. 22 to Nov. 11, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,550 ft^3/s May 16, gage height, 6.05 ft; minimum daily, 39 ft^3/s Feb. 28, Mar. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	222	73	54	47	39	147	624	98	125	95	125
2	125	209	71	52	48	42	153	396	60	97	102	123
3	185	196	69	51	49	43	155	418	51	97	101	122
4	227	185	67	50	49	42	153	326	51	97	103	122
5	237	177	64	49	49	42	150	213	52	93	106	121
6	244	171	61	47	48	41	149	229	83	93	111	119
7	240	167	59	46	47	41	153	272	123	93	118	117
8	237	160	57	45	46	42	153	357	93	93	124	115
9	234	157	55	45	46	49	150	482	85	92	123	114
10	230	148	53	47	47	49	146	613	118	91	122	113
11	242	140	53	47	47	50	149	907	241	90	122	113
12	249	134	51	50	46	49	148	1150	293	87	127	111
13	247	128	51	52	45	50	145	1410	382	87	129	111
14	244	118	54	53	44	50	142	1470	345	87	149	110
15	240	115	57	53	43	51	140	1840	236	86	165	109
16	237	110	56	51	43	53	138	2410	166	85	163	108
17	234	106	58	50	42	53	140	2050	111	85	162	119
18	229	101	56	49	42	53	148	1210	111	85	161	136
19	226	96	54	52	41	58	168	868	111	85	150	134
20	223	90	53	54	41	60	183	894	103	85	137	132
21	223	86	52	52	42	63	196	880	99	83	135	130
22	221	83	57	52	44	69	199	880	99	83	135	128
23	218	80	60	51	44	75	203	897	98	83	134	126
24	249	80	65	50	43	82	209	981	99	82	133	125
25	322	77	64	50	42	96	231	1030	98	82	131	122
26	310	76	62	49	41	112	288	1020	98	82	131	121
27	291	76	60	48	40	121	408	925	97	82	130	120
28	272	75	58	47	39	131	567	846	131	82	128	118
29	266	74	57	47	---	137	660	652	150	80	128	116
30	252	76	55	47	---	139	695	160	150	80	126	114
31	236	---	56	48	---	142	---	112	---	80	126	---
TOTAL	7315	3713	1818	1538	1245	2124	6666	26522	4032	2732	4007	3594
MEAN	236	124	58.6	49.6	44.5	68.5	222	856	134	88.1	129	120
MAX	322	222	73	54	49	142	695	2410	382	125	165	136
MIN	125	74	51	45	39	39	138	112	51	80	95	108
AC-FT	14510	7360	3610	3050	2470	4210	13220	52610	8000	5420	7950	7130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2001, BY WATER YEAR (WY)

MEAN	114	92.6	96.7	92.9	94.3	105	335	1362	1431	318	154	121
MAX	599	385	586	453	416	348	1289	2596	3436	1157	527	316
(WY)	1963	1974	1996	1997	1963	1986	1934	1997	1974	1916	1943	1980
MIN	.54	.48	1.00	1.00	1.00	1.26	5.94	240	134	20.5	23.5	13.8
(WY)	1944	1932	1936	1936	1937	1937	1977	1977	2001	1961	1956	1958

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1908 - 2001	
ANNUAL TOTAL	115873		65306			
ANNUAL MEAN	317		179		362	
HIGHEST ANNUAL MEAN					655	1974
LOWEST ANNUAL MEAN					122	1977
HIGHEST DAILY MEAN	2320	May 23	2410	May 16	4840	Jun 20 1974
LOWEST DAILY MEAN	51	Dec 12	39	Feb 28	.00	Nov 17 1933
ANNUAL SEVEN-DAY MINIMUM	53	Dec 8	41	Feb 24	.00	Nov 17 1933
ANNUAL RUNOFF (AC-FT)	229800		129500		262000	
10 PERCENT EXCEEDS	1130		289		1150	
50 PERCENT EXCEEDS	94		110		116	
90 PERCENT EXCEEDS	64		47		22	

PAYETTE RIVER BASIN

13239000 NORTH FORK PAYETTE RIVER AT MCCALL, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974-1981, 1992, October 1994 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1998 (discontinued).

INSTRUMENTATION.--Temperature recording data logger

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 25.2 °C Aug. 13, 1998.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	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)
OCT										
24...	1520	245	13.0	11.2	16	.008	.003	.14	.006	<.007
DEC										
05...	1400	64	2.0	4.2	18	.049	<.002	.12	.007	<.007
MAR										
13...	1400	52	7.0	3.6	20	.016	<.002	.15	.004	<.007
APR										
25...	1600	236	19.0	7.4	19	.031	.003	.15	.007	<.007
JUN										
21...	0910	99	13.5	16.4	18	<.005	.006	.15	.005	<.007
AUG										
09...	1430	124	29.5	22.0	19	<.005	<.002	.19	.004	<.007

E Estimated value

PAYETTE RIVER BASIN

13240000 LAKE FORK PAYETTE RIVER ABOVE JUMBO CREEK, NEAR MCCALL, ID

LOCATION.--Lat 44°54'49", long 115°59'47", in SW¼SE¼NW¼ sec.8, T.18 N., R.4 E., Valley County, Hydrologic Unit 17040123, on left bank, 100 ft upstream from abandoned powerplant, 0.2 mi upstream from Jumbo Creek, 3.5 mi upstream from Lake Fork Reservoir dam, 5.5 mi east of McCall, and at mile 21.0.

DRAINAGE AREA.--48.9 mi^2. Mean elevation, 6,950 ft.

PERIOD OF RECORD.--October 1945 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,140 ft above sea level, from topographic map. Prior to Nov. 10, 1945, nonrecording gage at site 200 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion above station. Flow partially regulated by Browns Pond, capacity 1,230 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,770 ft^3/s June 21, 1971, gage height, 9.15 ft, from rating curve extended above 1,200 ft^3/s; minimum, 0.82 ft^3/s Sept. 7, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,200 ft^3/s May 15, gage height, 7.66 ft; minimum, 2.7 ft^3/s July 13, 14, gage height, 1.12 ft, from regulation at Browns Pond; minimum daily, 7.9 ft^3/s Sept. 3, 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	41	e14	e11	e12	e16	e50	347	38	205	20	8.1
2	27	41	e14	e10	e12	e17	e46	246	161	81	18	8.0
3	20	40	e15	e12	e12	e16	e42	200	178	43	16	7.9
4	17	58	e15	e12	e12	e17	e44	200	170	40	15	7.9
5	15	96	e14	e13	e14	e17	e40	244	164	38	15	8.2
6	15	75	e14	e11	e13	e17	e50	248	189	39	14	12
7	14	60	e14	e8.0	e12	e18	e44	243	176	35	13	11
8	14	54	e14	e10	e11	e18	e42	298	159	34	13	9.6
9	14	52	e14	e13	e13	e19	e40	348	149	33	12	9.2
10	14	e44	e13	e12	e17	e18	e40	346	140	31	12	8.9
11	20	e36	e12	e12	e16	e17	e44	363	138	30	12	8.5
12	22	e32	e11	e12	e15	e17	e40	461	170	30	12	8.3
13	25	e26	e12	e12	e15	e17	e36	609	158	13	11	8.4
14	28	e28	e15	e12	e14	e18	e34	566	131	17	11	9.9
15	27	e28	e14	e12	e17	e16	e36	998	116	26	11	9.7
16	24	e20	e12	e9.0	e19	e18	e44	798	106	29	11	10
17	23	e14	e14	e10	e19	e18	e75	543	101	31	10	14
18	23	e14	e13	e12	e19	e17	e90	426	95	27	9.9	12
19	22	e14	e13	e12	e19	e22	e100	404	87	26	9.7	10
20	22	e15	e14	e11	e19	e30	e100	370	82	25	9.6	9.2
21	61	e14	e15	e11	e19	e30	e85	338	77	23	9.5	8.8
22	43	e14	e15	e11	e19	e30	e80	351	74	22	9.3	8.5
23	33	e14	e15	e11	e19	e38	e80	398	70	21	9.3	8.3
24	31	e15	e15	e10	e18	e44	e85	460	65	20	9.3	8.1
25	31	e14	e14	e10	e17	e55	124	503	61	19	9.2	8.3
26	34	e14	e13	e10	e16	e60	201	472	58	19	9.0	9.7
27	95	e14	e14	e9.0	e16	e70	312	404	56	18	8.7	9.2
28	74	e13	e13	e10	e15	e75	398	379	146	17	8.6	8.5
29	52	e14	e13	e10	---	e65	303	298	12	16	8.4	8.4
30	47	e15	e13	e11	---	e60	257	239	155	19	8.3	8.2
31	43	---	e12	e11	---	e55	---	92	---	23	8.2	---
TOTAL	948	929	423	340.0	439	945	2962	12192	3482	1050	353.0	276.8
MEAN	30.6	31.0	13.6	11.0	15.7	30.5	98.7	393	116	33.9	11.4	9.23
MAX	95	96	15	13	19	75	398	998	189	205	20	14
MIN	14	13	11	8.0	11	16	34	92	12	13	8.2	7.9
AC-FT	1880	1840	839	674	871	1870	5880	24180	6910	2080	700	549
CFSM	.63	.63	.28	.22	.32	.62	2.02	8.04	2.37	.69	.23	.19
IN.	.72	.71	.32	.26	.33	.72	2.25	9.27	2.65	.80	.27	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2001, BY WATER YEAR (WY)

MEAN	31.7	44.8	40.8	36.2	34.2	40.8	151	529	585	161	33.0	22.4
MAX	180	182	189	170	86.9	103	310	922	1262	406	70.1	68.4
(WY)	1963	1974	1996	1997	1963	1995	1990	1997	1974	1974	1983	1959
MIN	7.72	9.80	10.2	11.0	12.1	12.5	21.2	152	113	29.5	10.3	5.70
(WY)	1992	1994	1953	2001	1977	1977	1975	1977	1992	1977	1994	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1946 - 2001	
ANNUAL TOTAL	47054.4		24339.8			
ANNUAL MEAN	129		66.7		143	
HIGHEST ANNUAL MEAN					242	1974
LOWEST ANNUAL MEAN					48.7	1977
HIGHEST DAILY MEAN	970	Jun 13	998	May 15	2070	Jun 16 1974
LOWEST DAILY MEAN	6.4	Aug 13	7.9	Sep 3	.94	Sep 6 1994
ANNUAL SEVEN-DAY MINIMUM	13	Sep 24	8.1	Aug 30	3.2	Sep 4 1994
ANNUAL RUNOFF (AC-FT)	93330		48280		103300	
ANNUAL RUNOFF (CFSM)	2.63		1.36		2.92	
ANNUAL RUNOFF (INCHES)	35.80		18.52		39.63	
10 PERCENT EXCEEDS	461		193		474	
50 PERCENT EXCEEDS	30		18		38	
90 PERCENT EXCEEDS	14		9.7		15	

e Estimated

PAYETTE RIVER BASIN

13245000 NORTH FORK PAYETTE RIVER AT CASCADE, ID

LOCATION.--Lat 44°31'30", long 116°02'45" in SW¼NW¼NW¼ sec.25, T.14 N., R.3 E., Valley County, Hydrologic Unit 17050123, 0.2 mi downstream from Cascade Dam, and at mile 40.0.

DRAINAGE AREA.--620 mi^2. Mean elevation, 5,960 ft.

PERIOD OF RECORD.--May 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,720.00 ft above sea level. May 1941 to Jan. 28, 1947 (nonrecording gage), Jan. 29, 1947 to Nov. 5, 1958, Oct. 1, 1965 to Sept. 30, 1982, at site 1.4 mi downstream at datum 4,725.31 ft above sea level; Nov. 6, 1958 to Sept. 30, 1965, at site 0.1 mi upstream at datum 4,734.59 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Payette Lake (see sta 13238500), Lake Fork Reservoir and Cascade Reservoir 0.2 mi upstream, beginning November 1947 (sta 13244500). Diversions above station for irrigation of about 39,000 acres, (1966 determination).

COOPERATION.--Discharge records furnished by Idaho Power and reviewed by U.S. Geological Survey beginning April 2001.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,320 ft^3/s May 10, 1947, gage height, 6.29 ft, site and datum then in use; no flow for part of Oct. 14, 1971, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,580 ft^3/s Aug. 29; minimum daily, 129 ft^3/s Oct. 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1110	200	207	217	209	220	200	193	1030	1080	1130	1490
2	1040	197	202	217	210	222	198	194	1030	1140	1060	1510
3	1010	200	201	217	210	220	197	203	995	1170	1050	1500
4	1000	201	204	217	211	219	197	204	1050	1170	1100	1460
5	1000	199	245	217	210	218	196	204	1030	1170	1140	1410
6	1000	201	241	217	207	218	198	206	1020	1150	1170	1340
7	1010	204	252	216	422	216	196	207	1020	1130	1190	1290
8	1010	205	250	218	581	215	193	206	1200	1130	1220	1280
9	1010	205	250	218	586	213	194	205	1310	1130	1220	1240
10	964	206	249	219	431	217	196	207	1300	1110	1190	1230
11	890	207	227	220	219	216	196	209	1310	1080	1180	1190
12	579	209	214	221	223	218	195	203	1310	1080	1180	1150
13	149	209	215	221	226	219	195	204	1220	1080	1200	1150
14	133	211	218	220	223	218	192	206	920	1070	1220	1090
15	132	214	212	220	225	220	189	208	879	1070	1220	1060
16	131	213	210	216	225	218	189	206	976	1110	1220	1060
17	132	214	209	216	226	219	191	207	1230	1100	1240	973
18	131	211	210	216	229	219	195	207	1350	1060	1260	886
19	131	204	208	220	225	214	194	207	1220	1060	1270	721
20	131	205	208	222	223	208	195	205	1130	1050	1270	509
21	131	209	210	219	225	201	194	207	1100	1050	1270	408
22	130	211	213	216	226	203	194	208	1090	1100	1240	409
23	129	213	215	216	225	201	195	207	1080	1110	1210	411
24	162	212	214	216	227	203	194	206	1080	1110	1210	411
25	195	213	213	217	234	204	193	318	1080	1140	1210	386
26	190	213	213	217	236	194	192	921	1070	1130	1210	323
27	192	213	216	224	220	199	197	1050	1080	1150	1250	299
28	194	210	216	225	217	199	196	1030	1080	1180	1390	307
29	197	210	216	225	---	198	197	1040	1080	1260	1580	310
30	198	209	215	213	---	198	198	1030	1080	1230	1560	310
31	198	---	216	208	---	199	---	1030	---	1150	1510	---
TOTAL	14609	6228	6789	6761	7331	6546	5846	11338	33350	34750	38370	27113
MEAN	471	208	219	218	262	211	195	366	1112	1121	1238	904
MAX	1110	214	252	225	586	222	200	1050	1350	1260	1580	1510
MIN	129	197	201	208	207	194	189	193	879	1050	1050	299
AC-FT	28980	12350	13470	13410	14540	12980	11600	22490	66150	68930	76110	53780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2001, BY WATER YEAR (WY)

MEAN	665	398	560	607	645	792	1049	1225	1856	1352	1603	1402
MAX	1353	1093	1789	2679	3138	2835	3639	4668	4282	2623	2513	2475
(WY)	1955	1951	1996	1997	1997	1974	1943	1947	1943	1952	1957	1973
MIN	134	12.3	3.00	144	136	126	102	74.5	117	513	389	136
(WY)	1978	1949	1948	1980	1980	1977	1957	1962	1962	1944	1947	1944

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1942 - 2001	
ANNUAL TOTAL	363054		199031			
ANNUAL MEAN	992		545		1014	
HIGHEST ANNUAL MEAN					1598	1996
LOWEST ANNUAL MEAN					510	1988
HIGHEST DAILY MEAN	2800	Jun 14	1580	Aug 29	7150	May 11 1947
LOWEST DAILY MEAN	129	Oct 23	129	Oct 23	2.0	Jan 1 1948
ANNUAL SEVEN-DAY MINIMUM	131	Oct 17	131	Oct 17	2.1	Dec 31 1947
ANNUAL RUNOFF (AC-FT)	720100		394800		734500	
10 PERCENT EXCEEDS	2040		1210		2250	
50 PERCENT EXCEEDS	1010		219		725	
90 PERCENT EXCEEDS	200		196		176	

PAYETTE RIVER BASIN

13246000 NORTH FORK PAYETTE RIVER NEAR BANKS, ID

LOCATION.--Lat 44°06'50", long 116°06'25", in NW¼SE¼ sec.16, T.9 N., R.3 E., Boise County, Hydrologic Unit 17050123, Boise National Forest, on right bank, 300 ft downstream from highway bridge, 2.5 mi north of Banks, and at mile 2.8.

DRAINAGE AREA.--933 mi^2. Mean elevation, 5,800 ft.

PERIOD OF RECORD.--April 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,081.13 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Payette Lake (sta 13238500), Lake Fork Reservoir, and Cascade Reservoir 37.1 mi upstream, beginning November 1947. Diversions above station for irrigation of about 50,800 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,830 ft^3/s May 11, 1947, gage height, 13.50 ft, estimated on basis of records for station near Smiths Ferry; minimum recorded discharge, 36 ft^3/s Dec. 21, 1947, gage height, 3.01 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,560 ft^3/s Aug. 30; minimum daily, 178 ft^3/s Oct. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	890	297	297	275	279	261	548	634	1150	1110	1160	1480
2	872	289	287	272	273	281	517	545	1140	1120	1140	1500
3	792	281	289	274	273	279	453	489	1090	1180	1050	1500
4	779	286	285	285	280	281	443	494	1180	1180	1080	1500
5	773	291	297	305	298	286	420	497	1160	1180	1100	1430
6	773	281	329	293	297	287	410	495	1160	1190	1160	1430
7	776	271	338	285	259	292	435	483	1140	1170	1160	1320
8	775	282	347	296	432	297	454	479	1130	1150	1200	1300
9	774	291	359	306	621	320	418	491	1390	1160	1200	1260
10	779	280	337	310	618	313	422	491	1400	1160	1200	1240
11	727	278	331	297	450	322	413	486	1410	1110	1160	1210
12	727	274	302	306	296	318	433	498	1460	1100	1160	1170
13	449	273	308	304	291	319	418	526	1450	1090	1150	1170
14	247	280	276	304	275	325	389	533	1250	1090	1180	1190
15	214	286	309	297	277	320	372	729	950	1080	1190	1090
16	201	277	280	269	283	330	373	704	986	1070	1190	1090
17	189	272	301	248	284	321	392	597	1120	1130	1190	1080
18	184	265	292	268	283	320	424	543	1370	1080	1210	964
19	180	274	291	275	289	353	456	526	1420	1060	1220	885
20	178	273	294	278	290	416	459	503	1230	1060	1230	692
21	227	282	305	281	283	461	476	479	1170	1060	1230	506
22	231	283	314	288	286	516	466	471	1150	1060	1230	446
23	202	275	314	291	286	564	443	481	1130	1090	1170	440
24	194	299	319	282	282	623	445	470	1110	1090	1170	437
25	233	293	296	294	279	661	472	480	1120	1110	1170	437
26	294	297	277	277	278	649	524	672	1110	1120	1180	417
27	311	306	286	263	278	533	586	1220	1110	1130	1180	359
28	298	295	292	268	260	497	641	1250	1130	1140	1220	343
29	349	294	288	280	---	511	585	1200	1120	1190	1470	344
30	343	307	292	297	---	496	555	1190	1120	1280	1560	342
31	313	---	281	298	---	461	---	1160	---	1220	1530	---
TOTAL	14274	8532	9413	8866	8880	12213	13842	19816	35856	34960	37440	28572
MEAN	460	284	304	286	317	394	461	639	1195	1128	1208	952
MAX	890	307	359	310	621	661	641	1250	1460	1280	1560	1500
MIN	178	265	276	248	259	261	372	470	950	1060	1050	342
AC-FT	28310	16920	18670	17590	17610	24220	27460	39310	71120	69340	74260	56670

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2001, BY WATER YEAR (WY)

MEAN	808	507	706	791	874	1155	1754	1996	2390	1554	1743	1573
MAX	1435	1256	1983	3632	3763	3545	3759	4303	5286	2948	2559	2521
(WY)	1955	1951	1996	1997	1997	1974	1971	1952	1953	1982	1957	1969
MIN	194	109	89.5	237	250	223	443	470	407	702	439	328
(WY)	1978	1949	1948	1989	1989	1977	1991	1992	1988	1986	1947	1948

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1947 - 2001	
ANNUAL TOTAL	422882		232664			
ANNUAL MEAN	1155		637		1326	
HIGHEST ANNUAL MEAN					2186	1997
LOWEST ANNUAL MEAN					637	2001
HIGHEST DAILY MEAN	3310	May 26	1560	Aug 30	7990	Jun 29 1971
LOWEST DAILY MEAN	178	Oct 20	178	Oct 20	50	Nov 23 1947
ANNUAL SEVEN-DAY MINIMUM	196	Oct 15	196	Oct 15	69	Dec 14 1948
ANNUAL RUNOFF (AC-FT)	838800		461500		960400	
10 PERCENT EXCEEDS	2000		1200		2740	
50 PERCENT EXCEEDS	1280		453		1040	
90 PERCENT EXCEEDS	282		277		295	

PAYETTE RIVER BASIN

13247500 PAYETTE RIVER NEAR HORSESHOE BEND, ID

LOCATION.--Lat 43°56'33", long 116°11'45", in NE¼SE¼ sec.15, T.7 N., R.2 E., Boise County, Hydrologic Unit 17050122, on left bank 0.5, mi downstream from Porter Creek, 0.6 mi upstream from concrete highway bridge on State Highway 55, 2 mi north of Horseshoe Bend, and at mile 60.8.

DRAINAGE AREA.--2,230 mi^2, approximately. Mean elevation, 5,850 ft.

PERIOD OF RECORD.--February 1906 to September 1916, July 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 533: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,625.61 ft above sea level. Prior to Nov. 23, 1912, nonrecording gage at site 1.8 mi upstream at different datum. Nov. 23, 1912 to Apr. 16, 1953, water-stage recorder at site 1,000 ft downstream at datum 2.1 ft lower.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Deadwood Reservoir beginning November 1930 (sta 13236000), Cascade Reservoir, 51.9 mi upstream, beginning November 1947 (sta 13244500) and other reservoirs upstream. Diversions above station for irrigation of about 55,100 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,000 ft^3/s Dec. 23, 1964, gage height, 16.35 ft; minimum daily, 260 ft^3/s Nov. 14, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,740 ft^3/s May 15, gage height, 7.40 ft; minimum, 623 ft^3/s Jan. 17, gage height, 2.41 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1510	1020	939	864	893	768	1720	2580	2880	2220	2250	1900
2	1550	982	880	820	872	872	1740	2350	2800	2190	2170	1900
3	1440	944	879	808	863	869	1600	2130	2770	2260	2060	1900
4	1400	941	891	864	873	848	1490	2060	2990	2260	2060	1910
5	1390	978	885	958	879	883	1430	2070	2910	2240	2080	1850
6	1390	943	906	912	881	914	1390	2100	2800	2240	2110	1920
7	1390	887	900	803	818	954	1530	2080	2720	2260	2110	1900
8	1390	903	936	717	857	1040	1510	2120	2740	2280	2130	1810
9	1380	961	954	902	1090	1230	1380	2240	3050	2310	2140	1750
10	1390	942	956	1010	1230	1250	1350	2350	3070	2310	2150	1710
11	1390	911	896	930	1100	1180	1360	2420	3060	2270	2100	1680
12	1520	871	826	926	861	1140	1400	2520	3230	2190	2080	1630
13	1360	868	865	922	835	1110	1340	2860	3230	2180	2080	1620
14	995	891	921	906	801	1110	1280	3180	2800	2180	2100	1750
15	935	939	946	872	778	1090	1240	3990	2220	2210	2110	1640
16	896	867	841	790	838	1090	1260	4640	2130	2230	2100	1590
17	859	812	856	659	824	1070	1380	4150	2170	2260	2090	1580
18	841	797	881	769	821	1030	1560	3610	2400	2180	2100	1470
19	834	809	791	958	835	1110	1720	3310	2470	2140	2110	1370
20	828	863	879	956	866	1500	1780	3100	2370	2130	2130	1180
21	983	879	926	900	868	1720	1790	2890	2340	2100	2130	989
22	1110	928	986	911	884	1730	1780	2750	2300	2100	2120	886
23	933	900	960	900	885	1770	1690	2730	2270	2120	2080	873
24	884	917	989	871	866	1910	1680	2810	2280	2110	2060	868
25	891	936	929	872	857	2090	1780	2950	2300	2110	2070	859
26	965	933	815	848	830	2190	2060	3180	2290	2120	2060	861
27	1040	962	806	801	818	1880	2450	3760	2310	2110	2060	821
28	1020	932	902	753	781	1740	2830	3690	2520	2120	1980	778
29	1170	855	889	726	---	1690	2720	3440	2420	2140	2010	777
30	1260	966	928	803	---	1620	2450	3220	2250	2270	1970	774
31	1080	---	904	897	---	1550	---	3000	---	2400	1950	---
TOTAL	36024	27337	27862	26628	24604	40948	50690	90280	78090	68240	64750	42546
MEAN	1162	911	899	859	879	1321	1690	2912	2603	2201	2089	1418
MAX	1550	1020	989	1010	1230	2190	2830	4640	3230	2400	2250	1920
MIN	828	797	791	659	778	768	1240	2060	2130	2100	1950	774
AC-FT	71450	54220	55260	52820	48800	81220	100500	179100	154900	135400	128400	84390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 2001, BY WATER YEAR (WY)

MEAN	1322	1243	1397	1426	1617	2456	5143	7971	7905	3628	2532	2059
MAX	2248	3618	3996	7281	6208	6919	13610	16060	16090	8235	3774	3374
(WY)	1984	1910	1996	1997	1997	1910	1943	1928	1927	1916	1993	1982
MIN	541	583	597	602	647	794	1650	2053	1765	907	643	610
(WY)	1936	1932	1936	1932	1932	1977	1991	1977	1924	1924	1924	1924

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1907 - 2001	
ANNUAL TOTAL	1013553		577999			
ANNUAL MEAN	2769		1584		3230	
HIGHEST ANNUAL MEAN					5501	1997
LOWEST ANNUAL MEAN					1463	1931
HIGHEST DAILY MEAN	8380	May 25	4640	May 16	21700	Jun 9 1921
LOWEST DAILY MEAN	791	Dec 19	659	Jan 17	260	Nov 14 1979
ANNUAL SEVEN-DAY MINIMUM	851	Nov 16	811	Jan 24	445	Nov 10 1979
ANNUAL RUNOFF (AC-FT)	2010000		1146000		2340000	
10 PERCENT EXCEEDS	5980		2540		7800	
50 PERCENT EXCEEDS	2630		1390		1970	
90 PERCENT EXCEEDS	899		840		850	

PAYETTE RIVER BASIN

13249500 PAYETTE RIVER NEAR EMMETT, ID

LOCATION.--Lat 43°55'50", long 116°26'30", in SW¼NE¼ sec.22, T.7 N., R.1 W., Gem County, Hydrologic Unit 17050122, on right bank, 0.3 mi downstream from Black Canyon Dam, 5 mi northeast of Emmett, and at mile 38.4.

DRAINAGE AREA.--2,680 mi^2, approximately.

PERIOD OF RECORD.--June 1925 to current year.

REVISED RECORDS.--WSP 1153: 1946(m), 1948(m).

GAGE.--Water-stage recorder. Datum of gage is 2,400.32 ft above sea level (levels by U.S Bureau of Reclamation).

REMARKS.--No estimated daily discharges. Records good except for discharges below 400 ft^3/s, which are poor. Station equipment includes satellite telemetry. Flow regulated by Deadwood Reservoir beginning November 1930 (see sta 13236000), Cascade Reservoir beginning November 1947 (see sta 13244500), other smaller reservoirs, and to some extent by Black Canyon Dam 0.3 mi upstream where flow is regulated by diversion and gate operation at dam. Diversions above station for irrigation of about 160,000 acres, of which about 43,700 acres are below station and about 53,000 acres are in adjacent basins (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,700 ft^3/s Dec. 23, 1964, gage height, 15.88 ft; minimum daily, 0.7 ft^3/s Jan. 7, 1957, gage height, -1.49 ft, when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,020 ft^3/s May 16, gage height, 4.76 ft; minimum daily, 446 ft^3/s Oct. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	601	1250	1120	1000	1020	944	2130	1790	1500	727	849	675
2	672	1200	979	934	996	1030	2220	1630	1350	718	780	601
3	568	1150	980	851	1020	1040	2110	1300	1320	755	683	646
4	483	1140	1020	1000	1050	976	1890	1140	1540	756	640	665
5	461	1150	987	1040	1020	1060	1810	1160	1620	757	642	626
6	446	1160	981	981	1040	1270	1620	1120	1410	743	647	766
7	514	1080	1010	934	1000	1330	1550	1130	1310	748	650	781
8	529	1070	1010	803	842	1430	2080	1000	1310	748	638	644
9	533	1150	1070	954	1120	1550	1510	1100	1490	787	663	603
10	545	1140	1090	1170	1370	1620	1190	1230	1650	867	701	550
11	679	1070	1010	1090	1270	1630	1310	1250	1590	809	671	597
12	929	995	947	1100	1130	1530	1460	1380	1680	765	643	554
13	1210	945	922	1110	891	1420	1310	1610	1900	740	638	536
14	1050	1060	1030	1060	900	1380	1230	2040	1470	733	645	681
15	1080	1140	1070	1020	962	1330	1120	2750	930	737	648	636
16	1130	1080	1040	921	919	1310	1130	3770	693	735	642	574
17	1120	968	913	637	966	1260	1250	3320	661	760	641	580
18	1070	939	992	768	975	1190	1450	2610	838	790	634	614
19	1050	894	880	1010	1010	1180	1570	2270	1020	700	633	515
20	1050	942	946	1080	1110	1430	1650	2030	911	671	633	476
21	1130	946	1040	1030	1200	1650	1590	1830	888	667	635	579
22	1390	989	1120	1030	1220	1670	1570	1580	842	691	634	548
23	1180	1000	1100	949	1250	2000	1360	1600	806	679	640	517
24	1100	990	1190	976	1220	2310	1240	1630	818	680	649	535
25	1070	1060	1120	1010	1190	2610	1160	1750	835	690	658	552
26	1210	1030	994	959	1050	2990	1350	1890	847	678	658	577
27	1230	1090	904	869	1060	2450	1780	2510	834	676	707	521
28	1280	1080	933	784	945	2230	2190	2480	903	678	684	465
29	1350	952	1040	766	---	2180	2110	2150	1020	662	615	466
30	1570	1030	1000	840	---	2070	1750	1910	814	702	645	448
31	1330	---	1060	948	---	2020	---	1670	---	1000	622	---
TOTAL	29560	31690	31498	29624	29746	50090	47690	56630	34800	22849	20468	17528
MEAN	954	1056	1016	956	1062	1616	1590	1827	1160	737	660	584
MAX	1570	1250	1190	1170	1370	2990	2220	3770	1900	1000	849	781
MIN	446	894	880	637	842	944	1120	1000	661	662	615	448
AC-FT	58630	62860	62480	58760	59000	99350	94590	112300	69030	45320	40600	34770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2001, BY WATER YEAR (WY)

MEAN	1215	1350	1639	1727	2060	2981	5175	7188	6770	2376	1549	1399
MAX	2073	3484	4159	8402	6846	8334	15060	16690	16450	6425	2253	2266
(WY)	1963	1928	1996	1997	1997	1986	1943	1928	1927	1982	1976	1982
MIN	454	681	597	636	730	845	956	837	870	569	447	413
(WY)	1936	1932	1936	1937	1932	1977	1977	1977	1977	1931	1926	1926

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1925 - 2001	
ANNUAL TOTAL	877944		402173			
ANNUAL MEAN	2399		1102		2953	
HIGHEST ANNUAL MEAN					5259	1997
LOWEST ANNUAL MEAN					1005	1977
HIGHEST DAILY MEAN	7580	Apr 14	3770	May 16	26500	Jan 2 1997
LOWEST DAILY MEAN	446	Oct 6	446	Oct 6	.70	Jan 7 1957
ANNUAL SEVEN-DAY MINIMUM	502	Oct 4	502	Oct 4	83	Jan 2 1957
ANNUAL RUNOFF (AC-FT)	1741000		797700		2140000	
10 PERCENT EXCEEDS	5470		1670		7380	
50 PERCENT EXCEEDS	1590		1020		1820	
90 PERCENT EXCEEDS	991		634		817	

PAYETTE RIVER BASIN

13250000 PAYETTE RIVER NEAR LETHA, ID

LOCATION.--Lat 43°53'47", long 116°37'33", in SE¼SW¼SW¼ sec.31, T.7 N., R.2 W., Gem County, Hydrologic Unit 17050122, on left bank just upstream from county road bridge, 1.1 mi east of Letha, and at mile 25.

DRAINAGE AREA.--2,760 mi^2, approximately.

PERIOD OF RECORD.--October 1978 to September 1983, October 1983 to September 1986 (irrigation season only), May 1994 to current year. July to November 1952, March to November 1953, at site 0.6 mi upstream not equivalent due to inflow between sites.

GAGE.--Water-stage recorder. Elevation of gage is 2,280 ft above sea level, from topographic map.

REMARKS.--Records good. Station equipment includes satellite telemetry. Flow regulated by Deadwood Reservoir (sta 13236000), Cascade Reservoir (sta 13244500), and to some extent by Black Canyon Dam about 13.5 mi upstream. Diversions above station for irrigation of about 190,000 acres, of which 50,000 acres are located below station. About 53,000 acres are in adjacent basins (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 27,000 ft^3/s Jan. 2, 1997; minimum, 51 ft^3/s June 11, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,190 ft^3/s May 16; minimum daily, 97 ft^3/s July 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	253	1270	1160	1070	1110	1010	2020	1070	907	156	392	180
2	315	1220	1050	1010	1080	1030	2100	1050	769	125	205	152
3	295	1170	1030	935	1070	1140	1900	749	698	131	176	164
4	219	1150	1070	1040	1090	1040	1660	503	863	155	137	191
5	191	1170	1040	1090	1090	1080	1570	444	1010	154	127	216
6	180	1180	1040	1070	1100	1290	1450	488	795	149	128	236
7	210	1130	1060	1030	1080	1340	1270	475	731	136	135	400
8	253	1100	1040	913	948	1450	1810	370	653	149	122	250
9	267	1160	1120	982	1120	1550	1340	366	806	153	126	217
10	265	1170	1120	1190	1400	1640	1020	540	993	225	152	166
11	380	1110	1090	1150	1310	1650	1020	543	960	234	142	170
12	554	1050	1020	1150	1210	1580	1190	676	1000	171	119	189
13	952	993	970	1170	1010	1460	1070	869	1260	154	111	166
14	791	1060	1070	1120	1000	1410	993	1320	982	144	109	240
15	770	1140	1110	1090	1020	1380	860	1840	429	138	110	314
16	798	1130	1110	1000	942	1340	801	3190	175	137	116	170
17	783	1030	993	826	1060	1310	855	2750	136	146	114	230
18	799	978	1040	826	1010	1240	930	2070	165	188	108	248
19	781	976	961	1070	1050	1210	932	1660	325	154	106	194
20	819	982	979	1140	1150	1380	1040	1420	319	117	113	148
21	979	985	1080	1130	1290	1660	937	1250	220	102	120	174
22	1360	1030	1150	1120	1290	1680	996	973	185	105	139	249
23	1210	1040	1160	1040	1310	1900	744	977	162	101	130	204
24	1120	1040	1230	1070	1290	2250	621	979	154	97	149	179
25	1100	1100	1190	1120	1260	2510	512	1060	144	113	152	205
26	1200	1080	1090	1060	1150	2960	613	1150	169	104	162	212
27	1250	1110	975	986	1130	2530	965	1710	160	108	161	192
28	1300	1130	987	e900	1030	2220	1400	1860	195	106	193	164
29	1310	1030	1090	e850	---	2190	1520	1540	404	109	132	151
30	1630	1050	1030	e900	---	2070	1120	1300	277	122	151	130
31	1380	---	1130	961	---	1990	---	1070	---	323	154	---
TOTAL	23714	32764	33185	32009	31600	50490	35259	36262	16046	4506	4491	6101
MEAN	765	1092	1070	1033	1129	1629	1175	1170	535	145	145	203
MAX	1630	1270	1230	1190	1400	2960	2100	3190	1260	323	392	400
MIN	180	976	961	826	942	1010	512	366	136	97	106	130
AC-FT	47040	64990	65820	63490	62680	100100	69940	71930	31830	8940	8910	12100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2001, BY WATER YEAR (WY)

MEAN	1016	1534	2147	2523	3228	4313	5452	6599	6507	2041	910	892
MAX	1829	2929	4185	8417	6722	6786	8211	10290	11050	5899	1524	1664
(WY)	1984	1984	1996	1997	1997	1997	1996	1996	1982	1982	1983	1986
MIN	503	879	800	1033	1129	1629	1175	1170	340	145	145	145
(WY)	2000	1980	1980	2001	2001	2001	2001	2001	1994	2001	2001	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1979 - 2001	
ANNUAL TOTAL	742684		306427			
ANNUAL MEAN	2029		840		3125	
HIGHEST ANNUAL MEAN					4743	1997
LOWEST ANNUAL MEAN					840	2001
HIGHEST DAILY MEAN	6530	Apr 14	3190	May 16	27000	Jan 2 1997
LOWEST DAILY MEAN	180	Oct 6	97	Jul 24	63	Sep 18 1994
ANNUAL SEVEN-DAY MINIMUM	226	Oct 4	104	Jul 21	73	Sep 17 1994
ANNUAL RUNOFF (AC-FT)	1473000		607800		2264000	
10 PERCENT EXCEEDS	4560		1400		8130	
50 PERCENT EXCEEDS	1270		985		1680	
90 PERCENT EXCEEDS	667		139		594	

e Estimated

PAYETTE RIVER BASIN

13251000 PAYETTE RIVER NEAR PAYETTE, ID

LOCATION.--Lat 44°02'33", long 116°55'27", in NE¼SE¼SW¼ sec.10, T.8 N., R.5 W., Payette County, Hydrologic Unit 17050122, on right bank just upstream from bridge on U.S. Highway 95, 1.8 mi south of Payette, and at mile 4.1.

DRAINAGE AREA.--3,240 mi^2, approximately.

PERIOD OF RECORD.--August 1935 to current year. Records for January 1895 to July 1897 (published as "at Payette" in 18th and 19th Annual Reports) have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1397: 1949(m), 1952, 1953-54(m).

GAGE.--Water-stage recorder. Datum of gage is 2,138.44 ft above sea level. Aug. 1, 1935 to Aug. 7, 1939, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by Deadwood Reservoir (sta 13236000), Cascade Reservoir beginning November 1947 (sta 13244500), other smaller reservoirs, and to some extent by Black Canyon Dam 34.6 mi upstream, where flow is regulated by diversion and gate operation at dam. Diversions above station for irrigation of about 196,000 acres, of which about 100 acres are irrigated by withdrawals from ground water, about 5,100 acres are located below station, and about 53,000 acres are in adjacent basins (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 32,000 ft^3/s Jan. 2, 1997; minimum, 17 ft^3/s June 25, 2001, gage height, 3.09 ft (result of irrigation diversion upstream); minimum daily, 127 ft^3/s Aug. 15, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,550 ft^3/s May 16, 17, gage height, 6.13 ft; minimum, 17 ft^3/s June 25, gage height, 3.09 ft (result of irrigation diversion upstream); minimum daily, 209 ft^3/s July 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	663	1600	1410	1300	e1300	1290	2150	1430	1240	473	684	398
2	679	1520	1340	1260	e1300	1300	2340	1550	1090	370	525	436
3	694	1500	1270	1160	1310	1450	2210	1150	995	285	441	417
4	671	1450	1300	1160	1310	1320	2010	928	1120	300	365	421
5	592	1450	1290	1260	1350	1360	1950	741	1320	317	333	430
6	597	1470	1270	1300	1340	1670	1860	753	1250	324	318	402
7	597	1430	1290	1220	1330	1710	1640	740	1120	332	289	589
8	617	1390	1280	1130	1180	1810	2080	610	995	388	290	563
9	631	1440	1350	1130	1270	1940	1870	588	968	424	252	500
10	652	1440	1330	1330	1500	2030	1670	696	1220	414	284	473
11	725	1420	1360	1410	1620	1980	1500	816	1260	455	318	418
12	986	1350	1280	1370	1490	1920	1710	882	1290	372	324	413
13	1540	1270	1200	1410	1290	1780	1620	1030	1490	343	337	395
14	1390	1300	1280	1370	1260	1710	1490	1540	1470	323	297	431
15	1330	1400	1340	1330	1160	1690	1370	1870	951	356	279	598
16	1270	1420	1370	1230	1180	1630	1350	3280	527	386	273	558
17	1240	1340	1260	1070	1300	1610	1290	3210	443	338	289	541
18	1240	1220	1220	967	1280	1540	1360	2520	389	377	284	501
19	1260	1240	1220	1200	1280	1500	1380	2110	447	404	294	500
20	1290	1220	1160	1350	1430	1560	1530	1890	563	377	307	422
21	1420	1230	1280	1340	1730	1860	1420	1720	441	353	313	388
22	1700	1270	1340	1330	1820	1900	1500	1440	366	339	315	490
23	1620	1280	1430	1230	1770	1970	1350	1310	323	335	331	461
24	1490	1280	1470	1270	1710	2330	1110	1300	305	277	352	489
25	1430	1310	1490	1310	1630	2590	936	1300	273	209	367	519
26	1470	1340	1370	1250	1530	3080	888	1400	290	258	388	558
27	1590	1340	1230	1190	1430	2880	1200	1720	325	254	406	572
28	1600	1390	1200	1120	1380	2390	1520	2030	354	264	400	524
29	1610	1330	1290	e1100	---	2350	1870	1870	547	283	385	516
30	1800	1260	1250	e1100	---	2250	1600	1640	654	318	345	518
31	1730	---	1350	e1200	---	2190	---	1410	---	407	391	---
TOTAL	36124	40900	40520	38397	39480	58590	47774	45474	24026	10655	10776	14441
MEAN	1165	1363	1307	1239	1410	1890	1592	1467	801	344	348	481
MAX	1800	1600	1490	1410	1820	3080	2340	3280	1490	473	684	598
MIN	592	1220	1160	967	1160	1290	888	588	273	209	252	388
AC-FT	71650	81130	80370	76160	78310	116200	94760	90200	47660	21130	21370	28640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2001, BY WATER YEAR (WY)

MEAN	1462	1661	2003	2178	2565	3406	5187	6675	6477	2015	1273	1435
MAX	2399	2896	4803	9545	7398	8793	14990	12010	13170	6348	2092	2488
(WY)	1963	1984	1965	1997	1997	1986	1943	1946	1974	1982	1976	1985
MIN	440	919	793	813	961	939	421	564	397	311	348	435
(WY)	1936	1937	1936	1937	1937	1977	1977	1977	1977	1977	2001	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1935 - 2001	
ANNUAL TOTAL	866914		407157			
ANNUAL MEAN	2369		1115		3025	
HIGHEST ANNUAL MEAN					5506	1997
LOWEST ANNUAL MEAN					945	1977
HIGHEST DAILY MEAN	7070	May 26	3280	May 16	32000	Jan 2 1997
LOWEST DAILY MEAN	592	Oct 5	209	Jul 25	127	Aug 15 1991
ANNUAL SEVEN-DAY MINIMUM	622	Oct 4	266	Jul 24	173	Jun 22 1994
ANNUAL RUNOFF (AC-FT)	1720000		807600		2192000	
10 PERCENT EXCEEDS	5030		1770		7380	
50 PERCENT EXCEEDS	1600		1260		1880	
90 PERCENT EXCEEDS	877		334		847	

e Estimated

WEISER RIVER BASIN

13258500 WEISER RIVER NEAR CAMBRIDGE, ID

LOCATION.--Lat 44°34'46", long 116°38'36"(revised), in SW¼SW¼ NE¼ sec.1, T.14 N., R.3 W., Washington County, Hydrologic Unit 17050124, on left bank 500 ft downstream from collapsed road bridge, 2.2 mi northeast of Cambridge, 2.5 mi upstream from Rush Creek, and at mile 48.6.

DRAINAGE AREA.--605 mi^2. Mean elevation, 4,650 ft.

PERIOD OF RECORD.--March 1939 to current year.

REVISED RECORDS.--WDR ID 1971: 1970(M).

GAGE.--Water-stage recorder. Elevation of gage is 2650 ft, from topographic map. Nonrecording gage at different datum prior to Apr. 23, 1939 at site 465 ft upstream, and Dec. 22, 1955 to Aug. 28, 1956 at bridge 2.5 mi downstream. Apr. 23, 1939 to Dec. 21, 1955 at site 465 ft upstream at different datum. Aug. 29, 1956 to Aug. 19, 1966, at site 600 ft upstream at datum 2.00 ft higher; Aug. 20, 1966 to July 7, 1977 at site 600 ft upstream at same datum; July 8, 1977 to June 6, 2001 at site 600 ft upstream at datum 3.00 ft lower.

REMARKS.--Records fair prior to June 7 and good thereafter. Station equipment includes telemetry. Flow regulated to some extent by Lost Valley Reservoir about 57 mi upstream, capacity reported to be 11,000 acre-ft, and other smaller reservoirs. Diversions above station for irrigation of about 12,200 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft^3/s Jan. 1, 1997, on basis of slope-area measurement; minimum, 7.1 ft^3/s Aug. 21-24, 1977, gage height, 2.23 ft.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 9	2230	*1,580	*6.67	No peaks greater than base discharge.			

Minimum daily, 12 ft^3/s Sept. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	132	115	125	123	198	620	786	217	61	84	46
2	121	123	106	117	e110	216	650	696	195	57	59	48
3	120	117	118	117	124	189	616	629	186	47	52	52
4	118	117	111	106	124	188	558	615	186	44	52	55
5	112	119	106	111	130	243	510	607	193	58	53	54
6	111	117	e95	80	133	466	487	582	206	69	55	57
7	111	110	e100	e60	120	619	535	561	170	65	53	57
8	110	113	e100	96	102	735	528	557	149	62	50	51
9	108	122	113	130	122	1130	475	557	135	56	48	46
10	108	122	108	135	135	1240	469	534	125	55	54	47
11	120	116	85	127	132	1060	525	524	123	59	60	44
12	137	102	61	130	130	906	620	542	186	58	59	42
13	164	95	114	128	128	809	554	610	176	60	60	43
14	142	112	119	127	117	766	514	608	149	67	61	44
15	129	118	134	119	129	647	487	880	141	65	59	35
16	120	105	104	85	130	620	471	902	129	70	56	22
17	111	82	124	e50	127	553	497	784	117	81	56	18
18	97	e75	86	114	132	489	570	696	107	72	54	20
19	89	e70	e90	137	135	607	685	639	98	73	50	14
20	96	e80	e90	128	142	701	689	574	89	71	53	13
21	172	86	e95	126	154	673	672	509	72	65	53	12
22	158	103	e100	130	179	661	639	484	68	63	51	16
23	129	91	129	125	226	679	611	463	61	60	56	16
24	117	118	142	114	287	724	623	457	62	58	58	15
25	114	113	132	131	281	842	691	443	63	58	56	16
26	113	111	104	109	233	955	779	420	64	57	53	19
27	151	120	e110	e90	214	791	892	399	73	59	51	27
28	156	118	e100	e60	206	752	956	363	131	56	50	25
29	221	116	e120	e44	---	669	846	324	105	59	50	22
30	181	119	e120	e70	---	628	740	285	76	66	53	22
31	144	---	e120	e100	---	598	---	249	---	84	51	---
TOTAL	3995	3242	3351	3321	4305	20354	18509	17279	3852	1935	1710	998
MEAN	129	108	108	107	154	657	617	557	128	62.4	55.2	33.3
MAX	221	132	142	137	287	1240	956	902	217	84	84	57
MIN	89	70	61	44	102	188	469	249	61	44	48	12
AC-FT	7920	6430	6650	6590	8540	40370	36710	34270	7640	3840	3390	1980

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	114	203	385	443	685	1181	1704	1710	897	195	84.2	85.4
MAX	443	1010	1694	2502	2036	2785	4542	3429	1993	555	164	163
(WY)	1963	1974	1997	1997	1982	1983	1952	1952	1974	1982	1983	1985
MIN	33.7	63.5	64.5	75.1	88.8	98.8	128	147	66.6	42.5	12.4	29.0
(WY)	1989	1940	1991	1977	1977	1977	1977	1977	1977	1977	1977	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	199074		82851			
ANNUAL MEAN	544		227		642	
HIGHEST ANNUAL MEAN					1202	1974
LOWEST ANNUAL MEAN					79.8	1977
HIGHEST DAILY MEAN	3950	Feb 23	1240	Mar 10	19000	Jan 1 1997
LOWEST DAILY MEAN	28	Aug 30	12	Sep 21	7.1	Aug 21 1977
ANNUAL SEVEN-DAY MINIMUM	49	Aug 26	15	Sep 19	7.3	Aug 17 1977
ANNUAL RUNOFF (AC-FT)	394900		164300		465200	
10 PERCENT EXCEEDS	1520		633		1790	
50 PERCENT EXCEEDS	162		118		216	
90 PERCENT EXCEEDS	67		51		69	

e Estimated

WEISER RIVER BASIN

13265500 CRANE CREEK AT MOUTH NEAR WEISER, ID

LOCATION (REVISED).--Lat 44°17'29", long 116°46'56", in NE¼NW¼NW¼ sec. 14, T.11 N., R.4 W., Washington County, Hydrologic Unit 17050124, on right bank, 500 ft downstream from county road bridge, about 10 mi northeast of Weiser, 12.3 mi downstream from Crane Creek Reservoir, and 0.2 mi upstream from mouth.

DRAINAGE AREA.--288 mi^2.

PERIOD OF RECORD.--July to September 1920, February 1921 to September 1973, February 1981 to May 1982, May to September 2001.

REVISED RECORDS.--WSP 833: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,240 ft, by barometer. Prior to May 2001 at site 500 ft upstream.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Flow regulated by Crane Creek Reservoir 12.3 mi upstream. Diversions above station for irrigation of about 820 acres (1966 determination).

AVERAGE DISCHARGE.--52 years (1921-73), 84.0 ft^3/s, 60,860 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft^3/s Feb. 17, 1982, gage height, 7.30 ft; no flow for part of May 1, 1956, Apr. 19-21, 1967, Apr. 21-22, 1968; minimum daily, 0.11 ft^3/s Apr. 20, 1967. A major flood occurred Dec. 3 or 4, 1910.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred Dec. 3 or 4, 1910.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge during period May to September 2001, 235 ft^3/s July 6; minimum daily, 0.42 ft^3/s May 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	3.0	146	197	142
2	---	---	---	---	---	---	---	---	4.2	162	198	142
3	---	---	---	---	---	---	---	---	5.8	184	196	140
4	---	---	---	---	---	---	---	---	5.9	182	191	146
5	---	---	---	---	---	---	---	---	4.3	212	194	155
6	---	---	---	---	---	---	---	---	4.1	235	196	150
7	---	---	---	---	---	---	---	---	7.5	225	199	142
8	---	---	---	---	---	---	---	---	7.6	227	194	139
9	---	---	---	---	---	---	---	---	5.7	223	193	138
10	---	---	---	---	---	---	---	---	6.3	216	191	138
11	---	---	---	---	---	---	---	---	12	197	195	109
12	---	---	---	---	---	---	---	---	52	194	194	107
13	---	---	---	---	---	---	---	---	48	197	193	109
14	---	---	---	---	---	---	---	---	60	196	192	113
15	---	---	---	---	---	---	---	---	37	196	190	111
16	---	---	---	---	---	---	---	---	42	194	189	109
17	---	---	---	---	---	---	---	---	67	195	192	110
18	---	---	---	---	---	---	---	.42	67	197	190	101
19	---	---	---	---	---	---	---	2.0	82	189	190	86
20	---	---	---	---	---	---	---	4.2	138	178	184	86
21	---	---	---	---	---	---	---	6.2	225	177	178	84
22	---	---	---	---	---	---	---	7.0	210	174	178	68
23	---	---	---	---	---	---	---	4.6	188	172	181	23
24	---	---	---	---	---	---	---	3.9	188	178	173	24
25	---	---	---	---	---	---	---	4.8	196	181	169	23
26	---	---	---	---	---	---	---	6.1	207	178	169	20
27	---	---	---	---	---	---	---	7.9	210	189	165	19
28	---	---	---	---	---	---	---	7.4	209	203	162	23
29	---	---	---	---	---	---	---	5.2	198	200	163	20
30	---	---	---	---	---	---	---	3.7	178	204	160	24
31	---	---	---	---	---	---	---	1.9	---	201	147	---
TOTAL	---	---	---	---	---	---	---	---	2668.4	6002	5703	2801
MEAN	---	---	---	---	---	---	---	---	88.9	194	184	93.4
MAX	---	---	---	---	---	---	---	---	225	235	199	155
MIN	---	---	---	---	---	---	---	---	3.0	146	147	19
AC-FT	---	---	---	---	---	---	---	---	5290	11900	11310	5560

WEISER RIVER BASIN

13266000 WEISER RIVER NEAR WEISER, ID

LOCATION.--Lat 44°16'03", long 116°46'16", in SW¼SW¼NW¼ sec. 24, T.11 N., R.4 W., Washington County, Hydrologic Unit 17050124, on right bank, 0.25 mi upstream from county road bridge, 2.0 mi downstream from Crane Creek, 10 mi east of Weiser, and at mile 14.9.

DRAINAGE AREA.--1,460 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1890 to June 1891, December 1894 to October 1896, April to September 1897, March 1898 to November 1899, March 1900 to December 1904, October 1910 to December 1914, October 1952 to current year. Published as "at Weiser" prior to 1900.

REVISED RECORDS.--WSP 1347: 1895-1905, 1953(M).

GAGE.--Water-stage recorder. Datum of gage is 2,206.1 ft above sea level. Prior to October 1952, nonrecording gages at several sites downstream within 1.5 mi of present site at various datums. October 1952 to January 1974, water-stage recorder 1,000 ft upstream at different datum. January to October 1974, nonrecording gage at nearby sites and different datums.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes telemetry. Flow slightly regulated since 1911 by Crane Creek Reservoir 14.3 mi upstream, capacity about 51,700 acre-ft, and other small reservoirs. Diversions above station for irrigation of about 30,400 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,500 ft^3/s Jan. 2, 1997, gage height, 17.20 ft, (backwater from bridge); minimum observed, 14 ft^3/s Aug. 7, 1911, gage height, 2.80 ft, site and datum then in use; minimum gage height, 1.45 ft, Nov. 29, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 19, 1932, reached a discharge of about 17,500 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,240 ft^3/s Mar. 10, gage height, 7.63 ft; minimum, 55 ft^3/s Sept. 23, gage height, 3.70 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	221	184	e200	e200	465	931	1110	376	214	250	158
2	208	202	171	e190	e200	490	965	1020	336	198	267	163
3	205	186	155	e190	e240	460	1050	913	293	226	234	159
4	177	178	175	e170	290	419	886	848	300	210	222	166
5	179	179	e160	e170	268	493	810	834	301	240	219	180
6	172	179	e150	e150	254	1120	762	818	318	271	226	176
7	172	173	e160	e130	e220	1520	818	773	307	286	237	168
8	176	173	e170	e140	e200	1790	933	765	262	278	228	168
9	178	186	e170	e160	e160	2760	845	785	236	270	222	176
10	179	191	e150	e190	e220	3270	787	772	209	258	223	179
11	173	187	e130	e220	260	2830	804	765	203	229	220	140
12	209	172	e100	236	245	2160	1100	755	268	224	222	141
13	252	154	168	235	248	1760	918	833	377	224	226	146
14	267	153	185	226	e220	1690	842	901	326	226	237	150
15	219	176	244	233	254	1380	775	1150	264	230	232	146
16	199	176	187	199	257	1250	720	1370	255	247	228	146
17	187	157	202	163	247	1150	718	1260	237	258	223	142
18	174	e130	163	140	246	975	769	1080	213	280	221	133
19	162	e120	e160	e220	243	1050	888	987	205	256	220	118
20	156	140	e170	e240	295	1260	965	898	237	230	216	119
21	171	161	e180	e220	340	1170	920	820	332	231	211	112
22	273	163	e200	234	437	1080	866	756	289	221	210	100
23	225	171	214	e220	567	1060	820	741	243	210	206	60
24	186	188	236	e200	777	1100	815	721	232	206	193	63
25	170	188	221	e190	792	1170	875	734	250	202	193	64
26	170	177	211	e220	623	1610	1010	722	269	206	189	63
27	215	186	e200	e190	543	1280	1180	679	285	217	191	65
28	266	196	e180	e170	501	1260	1320	624	298	229	186	67
29	260	187	e200	e140	---	1150	1260	547	334	229	183	70
30	352	188	e200	e160	---	987	1100	473	280	231	173	69
31	266	---	e200	e200	---	914	---	422	---	233	159	---
TOTAL	6397	5238	5596	5946	9347	41073	27452	25876	8335	7270	6667	3807
MEAN	206	175	181	192	334	1325	915	835	278	235	215	127
MAX	352	221	244	240	792	3270	1320	1370	377	286	267	180
MIN	156	120	100	130	160	419	718	422	203	198	159	60
AC-FT	12690	10390	11100	11790	18540	81470	54450	51330	16530	14420	13220	7550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2001, BY WATER YEAR (WY)

MEAN	188	310	623	933	1516	2431	2477	2558	1558	390	227	183
MAX	631	1446	2920	4760	5403	7196	7275	5506	5895	1053	466	406
(WY)	1963	1974	1956	1997	1982	1904	1897	1897	1896	1896	1984	1984
MIN	42.8	124	99.9	149	159	136	174	182	183	104	23.0	33.3
(WY)	1989	1995	1991	1977	1955	1977	1977	1977	1977	1977	1911	1911

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1895 - 2001	
ANNUAL TOTAL	375540		153004			
ANNUAL MEAN	1026		419		1112	
HIGHEST ANNUAL MEAN					2016	1904
LOWEST ANNUAL MEAN					136	1977
HIGHEST DAILY MEAN	11400	Feb 28	3270	Mar 10	31000	Jan 2 1997
LOWEST DAILY MEAN	100	Dec 12	60	Sep 23	14	Aug 7 1911
ANNUAL SEVEN-DAY MINIMUM	136	Sep 17	65	Sep 23	20	Aug 19 1911
ANNUAL RUNOFF (AC-FT)	744900		303500		805600	
10 PERCENT EXCEEDS	2480		996		2950	
50 PERCENT EXCEEDS	298		226		375	
90 PERCENT EXCEEDS	170		157		133	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-1981, 1990, 1993, April 1996 to September 1997, June to September 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August to September 1997, June to September 1998, April to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 29.0 °C July 17, 1998.

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles.
MESH SIZE.--425 um.

AVERAGE DEPTH.--0.60 m.

AVERAGE PERCENT SHADING.--17.

AVERAGE VELOCITY.-- 0.20 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--4.

PERCENT FINES AVERAGE.--18.

BIOLOGICAL DATA, SEPTEMBER 2000
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE Sept.7	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION
NON-INSECTS			
Turbellaria		3	0.13
Imma. Tubificid with cap.setae		20	0.91
Imma. Tubificid w/o cap.setae		45	2.08
Rhyacodrilus coccineus		3	0.13
Kincaidiana hexatheca		3	0.13
Ferrissia rowelli		56	2.60
Acari		14	0.65
EPHEMEROPTERA			
Acentrella insignificans		11	0.52
Baetis tricaudatus		14	0.65
Heptagenia		14	0.65
Rhithrogena		59	2.73
Stenonema		6	0.26
Paraleptophlebia		11	0.52
Tricorythodes		25	1.17
PLECOPTERA			
Calineuria californica		3	0.13
Isogenoides		23	1.04
Skwala		3	0.13
TRICHOPTERA			
Brachycentrus occidentalis		333	15.36
Glossosoma		3	0.13
Protoptila		130	5.99
Helicopsyche borealis		68	3.13
Cheumatopsyche		37	1.69
Hydropsyche		390	17.97
Leucotrichia		186	8.59
Ochrotrichia		8	0.39
Ceraclea		3	0.13
Oecetis		11	0.52
LEPIDOPTERA			
Petrophila		249	11.46
COLEOPTERA			
Dubiraphia		3	0.13
Microcylloepus		51	2.34
Optioservus		71	3.26
Zaitzevia		6	0.26
Psephenus		11	0.52
DIPTERA			
Atherix		3	0.13
Agathon		11	0.52
Simulium		3	0.13
Hexatoma		3	0.13
CHIRONOMIDAE			
Chironomidae-pupae		17	0.78
Cardiocladius		3	0.13
Cricotopus		59	2.73
Eukiefferiella		6	0.26
Microtendipes		3	0.13
Orthocladius Complex		56	2.60
Polypedilum		121	5.60
Thienemanniella		3	0.13
Thienemannimyia group		8	0.39

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 46
TOTAL INDIVIDUALS 2,169

SNAKE RIVER MAIN STEM

13269000 SNAKE RIVER AT WEISER, ID

LOCATION.--Lat 44°14'44", long 116°58'48", in NW¼SE¼ sec.31, T.11 N., R.5 W., Washington County, Hydrologic Unit 17050124, on right bank, at upstream side of U.S. Highway 30N bridge at Weiser, 0.7 mi downstream from Weiser River, and at mile 351.3.

DRAINAGE AREA.--69,200 mi^2, approximately. Mean elevation, 5,400 ft.

PERIOD OF RECORD.--October 1910 to current year. Fragmentary gage-height record obtained by U.S. Weather Bureau since 1895. Monthly discharge only for October 1910, published in WSP 1317.

REVISED RECORDS.--WSP 1317: 1918. WSP 1567: 1910(M). WDR ID-76-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is 2,086.64 ft above sea level. Prior to Oct. 1, 1914, nonrecording gage 0.2 mi downstream at different datum. Oct. 1, 1914 to Oct. 11, 1933, nonrecording gage, and Oct. 12, 1933 to Apr. 13, 1964, water-stage recorder, at site 0.3 mi upstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Flow regulated by many reservoirs above station. Diurnal fluctuation caused by hydroelectric plants upstream. Diversions above station for irrigation of about 3,650,000 acres, of which about 742,000 acres are irrigated by withdrawals from ground water. In addition, approximately 7,300 acres are irrigated below station by diversions from Weiser River (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 84,500 ft^3/s Apr. 29, 1952, gage height, 14.67 ft, site and datum then in use; maximum gage height recorded, 15.55 ft, Dec. 20, 1972, backwater from ice jam; minimum, 4,390 ft^3/s June 7, 1992, gage height, 1.36 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 3, 1910, reached a stage of 17.1 ft at site and datum 0.3 mi upstream, from reading on old U.S. Weather Bureau gage, discharge, 120,000 ft^3/s. Flood in June 1894 was considerably higher.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 16,000 ft^3/s Oct. 13, 14; minimum daily, 6,350 ft^3/s June 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e13000	e13000	11500	10500	10400	10800	11000	10400	9510	7670	8020	7900
2	e13000	e13000	10700	10700	10600	11300	12000	10600	8300	7340	7510	8040
3	e13000	e13000	11100	10300	10200	10600	11800	10000	7970	6950	6890	8180
4	e12000	e13000	10700	10800	10800	10600	11700	9440	8440	6600	7060	8590
5	e13000	e12000	10900	10600	10400	10800	10700	9100	8760	6640	7180	8270
6	e12000	e12000	10800	10300	10700	11800	10800	9080	9270	6890	6950	8530
7	e12000	e12000	11100	10400	10600	12300	10700	9090	8980	6830	6990	8410
8	e13000	e12000	11300	10100	10200	12100	10900	8990	8330	7000	6930	8840
9	e13000	e13000	11000	10700	10500	13800	10900	8410	8270	7410	6420	9010
10	e13000	e12000	10300	10800	10900	14400	10400	9070	8590	7750	6510	9110
11	e13000	e12000	11000	10600	11000	14200	10200	8500	8360	e7500	6880	8910
12	e14000	e12000	11300	10800	10200	13400	11900	8820	8210	e7000	7260	8890
13	e16000	e12000	12600	11300	10400	13000	11300	8450	8520	7290	7720	8750
14	e16000	e12000	14100	11100	9760	12900	10800	9260	8810	7530	7230	9360
15	e15000	e12000	13000	10700	10600	12200	11600	11000	8320	7550	6710	8590
16	e14000	e12000	11200	10800	10500	12200	10900	13800	7830	7930	7010	9160
17	e14000	e12000	11500	10500	10700	12000	11200	13800	7540	7490	7060	9090
18	e14000	e12000	10500	10200	10000	11600	11700	13200	7270	7500	7180	9590
19	e14000	e12000	10700	11000	10500	11400	11000	13700	e7000	7740	7190	9840
20	e12000	e11000	10900	10800	10700	11800	10700	13400	e6800	7610	7040	9310
21	e12000	e12000	10900	10500	11600	12700	11200	12500	e6800	7490	7240	8750
22	e13000	e12000	10400	10600	11600	12200	11200	12300	e6800	7360	7350	8670
23	e12000	e12000	11600	10800	11500	12100	10800	10200	6400	7140	7390	9440
24	e13000	e11000	10700	10600	11400	12300	10700	10200	6350	7250	7570	9120
25	e12000	e11000	11000	10700	11800	12500	10300	9670	6460	6990	7770	9180
26	e13000	e11000	10900	10200	11000	13500	9590	10000	6760	6920	7860	9270
27	e13000	e11000	11000	10600	11100	13400	9720	10200	6940	6510	7980	8960
28	e13000	e12000	10700	10700	10900	12100	10200	10500	7670	6540	7770	9310
29	e13000	e12000	10700	9800	---	11900	10600	10300	7240	6760	7890	9210
30	e12000	11700	10600	10500	---	12100	10300	9320	7420	6710	7860	9120
31	e12000	---	10700	10100	---	11500	---	9310	---	6960	7990	---
TOTAL	407000	359700	345400	328100	300560	379500	326810	322610	233920	222850	226410	267400
MEAN	13130	11990	11140	10580	10730	12240	10890	10410	7797	7189	7304	8913
MAX	16000	13000	14100	11300	11800	14400	12000	13800	9510	7930	8020	9840
MIN	12000	11000	10300	9800	9760	10600	9590	8410	6350	6510	6420	7900
AC-FT	807300	713500	685100	650800	596200	752700	648200	639900	464000	442000	449100	530400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2001, BY WATER YEAR (WY)

MEAN	14140	15120	15720	16640	18920	22680	27670	28360	26030	12050	9809	11630
MAX	24650	27130	29180	43480	49100	55340	68570	62720	59120	29210	15410	19070
(WY)	1985	1985	1984	1997	1997	1986	1952	1984	1921	1917	1997	1997
MIN	7818	9768	9810	10310	10210	10410	7812	6898	5745	5844	5348	6319
(WY)	1925	1993	1993	1989	1935	1992	1977	1992	1992	1924	1992	1924

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1911 - 2001	
ANNUAL TOTAL	5534570		3720260			
ANNUAL MEAN	15120		10190		18200	
HIGHEST ANNUAL MEAN					33750	1984
LOWEST ANNUAL MEAN					8854	1992
HIGHEST DAILY MEAN	30900	Apr 15	16000	Oct 13	83800	Apr 28 1952
LOWEST DAILY MEAN	9180	Jul 24	6350	Jun 24	4460	Jun 7 1992
ANNUAL SEVEN-DAY MINIMUM	9470	Jul 24	6620	Jun 20	4740	Jun 5 1992
ANNUAL RUNOFF (AC-FT)	10980000		7379000		13190000	
10 PERCENT EXCEEDS	22900		13000		34200	
50 PERCENT EXCEEDS	13200		10600		14400	
90 PERCENT EXCEEDS	9930		7160		9050	

e Estimated

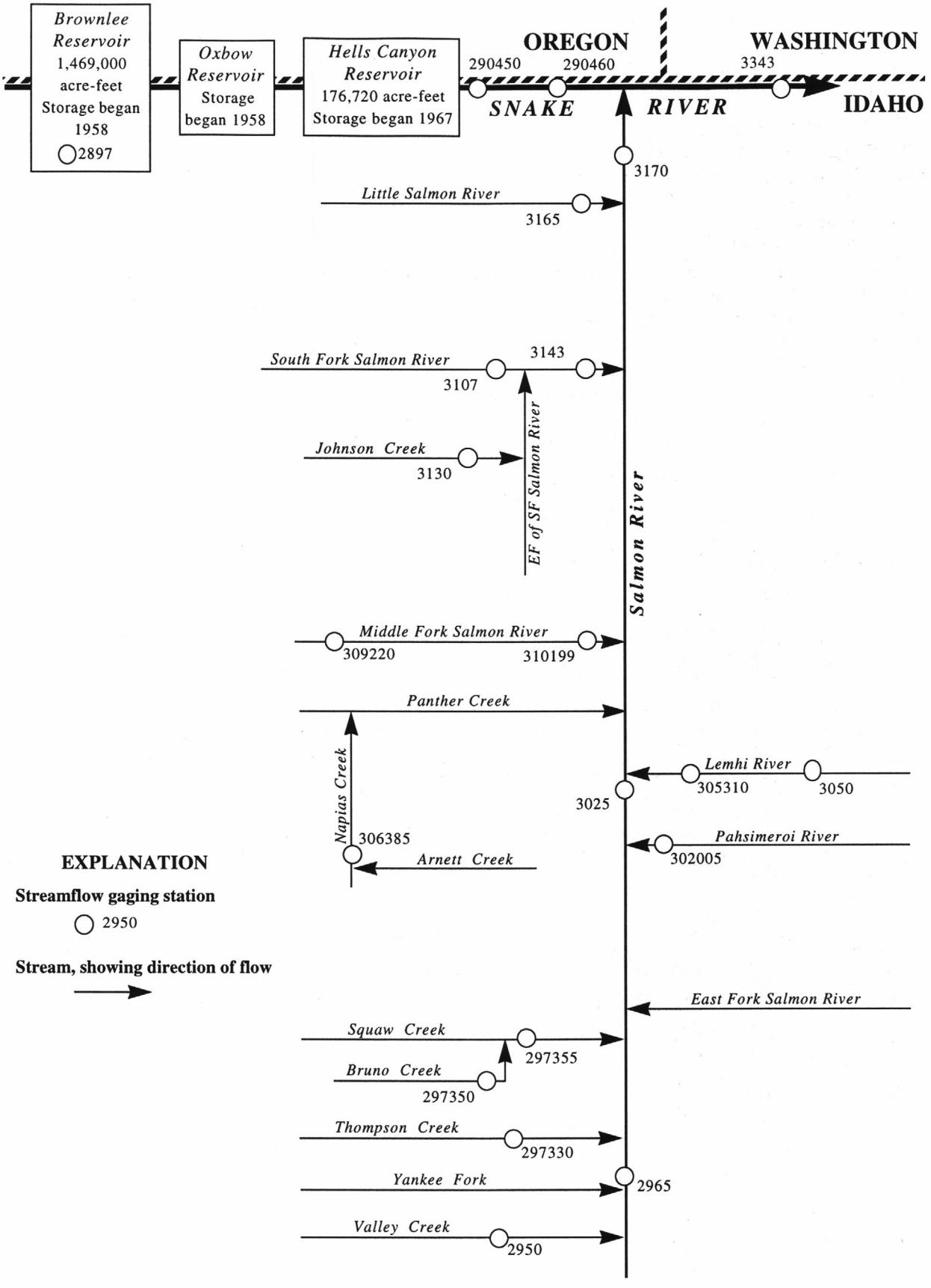


Figure 16. Schematic diagram showing gaging stations in Salmon River basin and in Snake River basin between Brownlee Reservoir and Snake River near Anatone.

SNAKE RIVER MAIN STEM

13289700 BROWNLEE RESERVOIR AT BROWNLEE DAM, IDAHO-OREGON STATE LINE

LOCATION.--Lat 44°50'08", long 116°53'58", in $SE^1/_4SE^1/_4$ sec.2, T.17 N., R.5 W., Washington County, Hydrologic Unit 17050201, at Brownlee Dam on Snake River near Idaho end of dam, 1.1 mi upstream from Wildhorse River, 3.5 mi downstream from Brownlee Creek, 10.5 mi east of Halfway, Oregon, and at mile 285.0.

DRAINAGE AREA.--72,590 mi^2, approximately.

PERIOD OF RECORD.--May 1958 to current year. Published as "at Idaho-Oregon State line" 1958-59.

GAGE.--Remote registering water-stage recorder. Datum of gage is sea level (levels by Idaho Power Co.). Prior to Feb. 2, 1959, nonrecording gage or levels to water surface at present site and datum.

REMARKS.--Reservoir is formed by earthfill dam. Storage began May 5, 1958. Dam was completed in fall of 1958. Normal pool elevation, 2,077 ft. Water is used for power generation.

COOPERATION.--Reservoir elevations and capacity table furnished by Idaho Power Co. (Capacity table recomputed 1985).

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,454,000 acre-ft Aug. 6, 1962, elevation, 2,078.91 ft; minimum since full capacity was attained June 23, 1959, 441,200 acre-ft Apr. 25, 1971, elevation, 1,975.20 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,422,000 acre-ft May 17, elevation, 2,077.10 ft; minimum, 908,500 acre-ft Oct. 7, elevation, 2,033.42 ft.

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

2,030.0	875,500	2,060.0	1,194,000
2,040.0	973,800	2,080.0	1,465,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	972700	1126000	1284000	1322000	1278000	1307000	1378000	1399000	1404000	1401000	1285000	1123000
2	970500	1136000	1285000	1331000	1279000	1311000	1376000	1407000	1401000	1398000	1277000	1124000
3	958100	1143000	1284000	1335000	1286000	1307000	1376000	1409000	1407000	1394000	1272000	1120000
4	945600	1148000	1282000	1342000	1292000	1315000	1376000	1404000	1410000	1388000	1272000	1105000
5	933100	1152000	1278000	1348000	1296000	1318000	1372000	1406000	1408000	1381000	1267000	1104000
6	918600	1158000	1280000	1357000	1292000	1320000	1369000	1407000	1412000	1381000	1259000	1101000
7	908500	1161000	1274000	1356000	1287000	1326000	1373000	1405000	1408000	1378000	1245000	1101000
8	919400	1163000	1274000	1360000	1274000	1329000	1376000	1405000	1399000	1378000	1243000	1103000
9	926900	1172000	1272000	1360000	1269000	1337000	1377000	1406000	1402000	1380000	1225000	1104000
10	935500	1180000	1274000	1357000	1270000	1349000	1380000	1405000	1403000	1368000	1213000	1099000
11	941200	1185000	1269000	1352000	1279000	1368000	1380000	1399000	1406000	1373000	1208000	1098000
12	941300	1189000	1258000	1352000	1275000	1372000	1380000	1406000	1407000	1374000	1205000	1096000
13	954100	1196000	1253000	1362000	1267000	1375000	1380000	1412000	1411000	1372000	1201000	1093000
14	973300	1202000	1260000	1367000	1254000	1375000	1386000	1412000	1408000	1365000	1194000	1095000
15	984800	1207000	1264000	1363000	1251000	1371000	1391000	1413000	1411000	1376000	1192000	1098000
16	996700	1216000	1269000	1356000	1247000	1371000	1390000	1416000	1408000	1374000	1180000	1101000
17	1001000	1217000	1268000	1340000	1250000	1373000	1387000	1414000	1411000	1376000	1168000	1101000
18	1012000	1221000	1263000	1326000	1257000	1384000	1387000	1403000	1410000	1370000	1162000	1093000
19	1025000	1231000	1266000	1319000	1261000	1382000	1388000	1400000	1410000	1367000	1164000	1097000
20	1033000	1234000	1268000	1309000	1268000	1375000	1386000	1404000	1408000	1362000	1168000	1085000
21	1044000	1238000	1280000	1317000	1271000	1372000	1390000	1408000	1404000	1365000	1157000	1080000
22	1055000	1240000	1280000	1312000	1273000	1382000	1388000	1411000	1406000	1362000	1156000	1078000
23	1059000	1248000	1280000	1312000	1277000	1383000	1391000	1407000	1399000	1349000	1150000	1083000
24	1069000	1249000	1283000	1319000	1287000	1394000	1389000	1405000	1399000	1335000	1152000	1080000
25	1074000	1253000	1292000	1324000	1299000	1399000	1385000	1401000	1402000	1323000	1150000	1077000
26	1082000	1265000	1302000	1315000	1294000	1402000	1381000	1407000	1398000	1307000	1146000	1074000
27	1093000	1266000	1306000	1308000	1298000	1398000	1380000	1412000	1400000	1299000	1142000	1075000
28	1101000	1265000	1304000	1298000	1305000	1393000	1390000	1409000	1397000	1291000	1138000	1077000
29	1109000	1266000	1311000	1289000		1384000	1398000	1412000	1396000	1289000	1134000	1082000
30	1110000	1275000	1321000	1283000		1376000	1401000	1405000	1396000	1297000	1129000	1084000
31	1116000		1324000	1288000		1369000		1401000		1288000	1125000	
MAX	1116000	1275000	1324000	1367000	1305000	1402000	1401000	1416000	1412000	1401000	1285000	1124000
MIN	908500	1126000	1253000	1283000	1247000	1307000	1369000	1399000	1396000	1288000	1125000	1074000
†	2053.29	2066.45	2070.17	2067.48	2068.72	2073.46	2075.69	2075.71	2075.35	2067.46	2054.02	2050.43
‡	144800	159000	49000	-36000	17000	64000	32000	0	-5000	-108000	-163000	-41000

CAL YR 2000 MAX 1405000 MIN 908500 ‡ -42000
WTR YR 2001 MAX 1416000 MIN 908500 ‡ 112800

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

SNAKE RIVER MAIN STEM

13290450 SNAKE RIVER AT HELLS CANYON DAM, IDAHO-OREGON STATE LINE

LOCATION.--Lat 45°15'05", long 116°41'50", in SE¼SE¼ sec.33, T.3 S., R.49 E., unsurveyed (Willamette meridian), Wallowa County, Oregon, Wallowa-Whitman National Forest, Hydrologic Unit 17050201, on left bank 0.2 mi upstream from Hells Canyon Creek, 0.4 mi downstream from Deep Creek, 0.6 mi downstream from Hells Canyon Dam, 15.5 mi northeast of Homestead, Oregon, and at mile 247.0.

DRAINAGE AREA.--73,300 mi^2, approximately.

PERIOD OF RECORD.--July 1965 to current year.

REVISED RECORDS.--WDR ID-78-2: 1969-70, 1972-76, WDR ID-79-2: 1972-73(m).

GAGE.--Water-stage recorder. Datum of gage is 1,400.00 ft above sea level (levels by Idaho Power Company).

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by many reservoirs above station, with a total usable capacity of more than 10,000,000 acre-feet, the most effective of which is Brownlee Reservoir 38 mi upstream (see sta 13289700). Diurnal fluctuations caused by Hells Canyon powerplant. Diversions above station for irrigation of about 3,820,000 acres, of which 742,000 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 103,000 ft^3/s Jan. 2, 1997, gage height, 86.17 ft; minimum, 1,580 ft^3/s Mar. 19, 1967, gage height, 59.9 ft; minimum daily, 4,360 ft^3/s May 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,400 ft^3/s Jan. 17, gage height, 71.84 ft; minimum, 5,110 ft^3/s Sept. 30, gage height, 62.75 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11700	9810	9990	8760	13500	8770	8950	10300	10400	7080	10500	7610
2	15600	9900	9950	8800	10500	11300	14800	9230	8600	9220	11300	7520
3	19800	9940	9970	8740	8900	12800	14500	9740	8610	9200	10300	10200
4	20900	9950	12000	8740	8920	8910	13300	14000	8010	11100	7610	11200
5	21100	9970	15300	8780	9150	9310	14400	9070	7670	10700	8670	13700
6	20800	9820	13200	8860	11400	12500	13200	8510	8870	8200	13300	10400
7	19900	9840	13300	8900	14300	11200	10900	12900	13100	7490	13700	9230
8	14200	9890	12800	8830	17200	12100	9910	11400	13300	6960	13900	7630
9	9460	9890	10500	10900	14300	12300	13100	9940	8700	7190	10500	7220
10	9470	9870	9290	9640	12200	8760	13200	11500	7600	8500	13100	12400
11	9430	9890	15500	14600	9020	8750	9700	10900	8070	9170	10600	10400
12	9400	9860	17600	13900	11600	11400	11300	8570	7810	7730	9580	11200
13	9470	9820	14000	8750	16400	14600	12000	8590	7750	8830	10300	9800
14	9430	9840	12000	8840	17700	14100	10400	11000	7910	7620	10700	8300
15	9420	9880	9360	11300	13700	16300	9140	12200	10800	7070	8390	7540
16	9450	9830	11400	14200	10500	14400	13700	15900	7670	7730	12800	7040
17	9470	9710	12700	21300	10700	12200	15900	19800	8060	7730	12400	9040
18	9460	9820	14800	17300	8910	8850	12200	19200	8000	8250	8910	13000
19	9480	9850	11300	16800	8830	12900	11900	19300	7780	8530	7160	9940
20	9440	9840	11400	13600	8790	16700	13300	13400	9550	11000	8900	14200
21	9490	9850	8990	10600	8770	15800	12000	13800	8140	7880	9260	13000
22	9470	9890	8840	13600	8840	11400	14500	13800	7670	8440	8280	8150
23	9490	9870	8770	9980	13000	13000	12400	14100	7510	15100	9760	7060
24	9700	9870	8750	10100	8870	8900	12300	13000	7000	14500	8320	13300
25	9870	9860	8690	8910	8780	8930	14300	14400	7780	15700	7650	10900
26	9890	9840	8790	12700	10200	15500	13100	8970	7750	14000	8850	10300
27	9840	9870	8820	15500	11400	17400	12400	8790	7610	14400	12900	7870
28	9820	9980	8720	17100	10100	17800	7440	14200	7790	8180	10400	7840
29	9840	10000	8690	17100	---	18600	7400	11300	7600	7800	11200	7680
30	9770	10000	8730	13000	---	17900	12900	14000	7660	7690	9850	7310
31	9850	---	8790	10500	---	16700	---	14900	---	7700	9590	---
TOTAL	364410	296250	342940	370630	316480	400080	364540	386710	254770	290690	318680	290980
MEAN	11760	9875	11060	11960	11300	12910	12150	12470	8492	9377	10280	9699
MAX	21100	10000	17600	21300	17700	18600	15900	19800	13300	15700	13900	14200
MIN	9400	9710	8690	8740	8770	8750	7400	8510	7000	6960	7160	7040
AC-FT	722800	587600	680200	735100	627700	793600	723100	767000	505300	576600	632100	577200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2001, BY WATER YEAR (WY)

MEAN	15550	15510	18110	22490	24590	29120	30390	27330	24680	14300	11480	14070
MAX	24140	28630	30410	50150	58220	66340	61960	68840	59080	25550	19860	24960
(WY)	1972	1985	1984	1997	1997	1986	1984	1984	1984	1983	1997	1997
MIN	9962	9193	9391	11960	11300	10600	7371	6401	5868	6901	6583	6887
(WY)	1989	1993	1993	2001	2001	1991	1988	1977	1992	1977	1992	1977

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1966 - 2001	
ANNUAL TOTAL	6237120		3997160			
ANNUAL MEAN	17040		10950		20600	
HIGHEST ANNUAL MEAN					36560	1984
LOWEST ANNUAL MEAN					9746	1992
HIGHEST DAILY MEAN	32400	Apr 19	21300	Jan 17	98100	Jan 2 1997
LOWEST DAILY MEAN	5700	Sep 28	6960	Jul 8	4360	May 8 1977
ANNUAL SEVEN-DAY MINIMUM	8740	Dec 24	7580	Jun 23	5330	Jun 4 1992
ANNUAL RUNOFF (AC-FT)	12370000		7928000		14920000	
10 PERCENT EXCEEDS	27000		14800		39100	
50 PERCENT EXCEEDS	16600		9890		16600	
90 PERCENT EXCEEDS	9290		7770		9140	

SNAKE RIVER MAIN STEM

13290460 SNAKE RIVER AT JOHNSON BAR, IDAHO-OREGON STATE LINE

LOCATION.-Lat 45°27'50", long 116°33'16", in SE¼NE¼ sec.22, T.1 S., R.50 E. (Willamette Meridian), Wallowa County, Oregon, Hydrologic Unit 17060101, Hells Canyon National Recreation Area, on left bank opposite lower end of Johnson Bar, 0.5 mi upstream from mouth of Sheep Creek, and at mile 229.9.

DRAINAGE AREA.-73,400 mi^2, approximately.

PERIOD OF RECORD.-July 1959 to September 1992 (gage heights only), October 1992 to September 1995 (discharge), October 1995 to current year (gage heights only).

GAGE.-Water-stage recorder. Datum of gage is 1,226.341 ft above sea level (levels by Corps of Engineers).

REMARKS.-Records good. Station equipment includes satellite telemetry. Diurnal fluctuations in stage are caused by Hells Canyon Powerplant. Records for years prior to the 1991 water year were not published, but are available from the Boise Field Office.

COOPERATION.--Gage-height records furnished by Idaho Power and reviewed by U.S. Geological Survey beginning April 2001.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 10.23 ft, Jan. 17; minimum recorded gage height, 4.45 ft, June 24.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.86	5.51	5.55	5.18	6.38	5.18	5.50	5.88	5.92	4.65	5.62	4.93
2	6.88	5.53	5.55	5.19	5.82	5.86	6.64	5.43	5.22	5.28	6.01	4.77
3	8.06	5.53	5.54	5.18	5.24	6.27	7.02	5.51	5.22	5.32	5.73	5.57
4	8.36	5.55	5.99	5.17	5.23	5.33	6.50	6.73	5.04	5.86	4.87	5.88
5	8.41	5.55	6.88	5.18	5.29	5.35	6.72	5.46	4.91	5.86	5.00	6.67
6	8.36	5.49	6.64	5.20	5.76	6.16	6.54	5.19	5.23	5.09	6.48	5.79
7	8.29	5.50	6.43	5.22	6.66	5.93	5.86	6.42	6.30	4.83	6.62	5.41
8	6.83	5.52	6.41	5.20	7.52	6.20	5.57	6.01	6.45	4.63	6.63	4.89
9	5.38	5.52	5.71	5.61	6.86	6.22	6.38	5.69	5.41	4.69	5.76	4.71
10	5.38	5.50	5.25	5.49	6.17	5.26	6.44	6.06	4.81	5.12	6.39	6.23
11	5.37	5.51	7.02	6.66	5.30	5.19	5.63	5.92	5.07	5.35	5.81	5.63
12	5.36	5.50	7.45	6.83	5.85	5.86	5.93	5.27	4.94	4.93	5.52	---
13	5.38	5.49	6.79	5.24	7.21	6.82	6.11	5.27	4.92	5.23	5.75	---
14	5.37	5.49	6.21	5.20	7.68	6.70	5.75	5.93	4.97	4.88	5.74	5.14
15	5.37	5.50	5.31	5.84	6.69	7.15	5.35	6.29	5.76	4.65	5.16	4.87
16	5.38	5.49	5.91	6.62	5.74	6.92	6.41	7.22	5.00	4.91	6.20	4.66
17	5.38	5.45	6.27	8.36	5.76	6.25	7.29	8.11	4.93	---	6.25	5.20
18	5.38	5.50	6.91	7.68	5.23	5.31	6.30	8.05	4.98	---	5.30	6.51
19	5.37	5.51	6.02	7.40	5.21	6.27	6.24	8.21	4.97	---	4.75	5.63
20	5.38	5.51	5.92	6.54	5.19	7.29	6.42	6.71	5.30	---	5.06	6.62
21	5.38	5.51	5.28	5.88	5.18	7.22	6.28	6.67	5.17	5.07	5.50	6.45
22	5.37	5.51	5.20	6.53	5.20	6.05	6.91	6.64	4.87	5.10	5.09	5.14
23	5.38	5.51	5.17	5.54	6.24	6.41	6.20	6.87	4.84	6.95	5.42	4.70
24	5.43	5.51	5.17	5.56	5.35	5.31	6.27	6.61	4.62	6.94	5.18	6.27
25	5.50	5.52	5.14	5.22	5.18	5.28	6.74	6.88	4.91	7.10	4.88	5.86
26	5.50	5.51	5.18	6.12	5.52	6.88	6.61	5.43	4.91	6.85	5.08	5.70
27	5.51	5.51	5.20	7.00	5.91	7.54	6.31	5.29	4.86	6.93	6.35	4.98
28	5.51	5.55	5.17	7.47	5.70	7.67	4.94	6.62	4.92	5.16	5.76	4.89
29	5.52	5.56	5.16	7.53	---	7.77	4.85	6.05	4.85	4.99	5.89	4.86
30	5.48	5.57	5.16	6.49	---	7.80	6.29	6.80	4.87	4.95	5.63	4.76
31	5.51	---	5.19	5.77	---	7.39	---	6.85	---	4.89	5.43	---
MEAN	5.99	5.51	5.83	6.07	5.90	6.35	6.20	6.32	5.14	---	5.64	---
MAX	8.41	5.57	7.45	8.36	7.68	7.80	7.29	8.21	6.45	---	6.63	---
MIN	5.36	5.45	5.14	5.17	5.18	5.18	4.85	5.19	4.62	---	4.75	---

CAL YR 2000 MEAN 7.38 MAX 11.26 MIN 4.08

SALMON RIVER BASIN

13295000 VALLEY CREEK AT STANLEY, ID

LOCATION.--Lat 44°13'21", long 114°55'49", in SE¼NW¼SW¼ sec.3, T.10 N., R.13 E., Custer County, Challis National Forest, Hydrologic Unit 17060201, on left bank at mile 0.2, 0.5 mi northeast of Stanley, and 0.8 mi southwest of Lower Stanley.

DRAINAGE AREA.--147 mi^2. Mean elevation, 7,400 ft.

PERIOD OF RECORD.--December 1910 to April 1911 (gage heights only), May 1911 to October 1913, May 1921 to December 1971, April to September 1972, October 1992 to current year.

REVISED RECORDS.--WSP 362: 1911-12. WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,221.81 ft above sea level. Prior to May 28, 1911, nonrecording gage at site 0.2 mi upstream, and May 28, 1911 to Oct. 31, 1913, at site 0.8 mi upstream, at different datums. May 2, 1921 to Apr. 30, 1949, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 3,000 acres (1966 determination). Water-quality records for water years 1959, 1971-72 are published in reports of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft^3/s May 24, 1956; maximum gage height, 4.4 ft, May 29, 1921; minimum daily, 34 ft^3/s Aug. 28, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 16	1230	*608	*2.19	No other peak greater than base discharge.			

Minimum, 36 ft^3/s Aug. 31, Sept. 1, 3, 4, gage height, 0.54 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	88	96	e85	87	e55	132	229	222	98	70	37
2	87	75	93	e85	83	e60	116	171	218	90	62	38
3	77	69	95	e85	82	e60	90	149	228	84	56	37
4	75	72	104	e85	78	e60	92	153	240	82	55	38
5	73	74	102	e85	75	e60	86	165	219	83	51	39
6	72	65	100	85	68	e60	89	163	201	81	48	81
7	73	55	101	75	67	59	86	155	182	79	46	73
8	73	63	103	e75	64	59	83	169	171	85	44	62
9	74	67	107	e75	e65	59	75	186	163	87	44	61
10	78	68	101	e80	e65	62	76	196	159	90	45	58
11	92	63	92	84	e65	61	78	204	164	82	47	54
12	112	61	97	87	e65	60	80	222	213	80	47	53
13	108	56	110	83	e65	61	76	261	196	74	48	54
14	98	64	111	79	e65	58	73	291	173	71	52	69
15	93	65	92	75	e65	54	76	492	155	75	49	59
16	87	66	87	70	e65	59	85	582	145	85	48	58
17	82	68	109	78	e70	56	101	458	139	78	45	71
18	82	71	e100	84	e70	57	120	371	135	72	43	63
19	84	77	e95	87	e70	83	130	334	130	67	43	58
20	82	76	e95	e80	63	119	129	308	124	66	42	56
21	107	87	e95	e80	59	122	118	278	121	63	40	55
22	99	87	e95	e80	58	117	105	263	120	60	39	54
23	88	94	e100	78	e60	122	102	261	119	59	39	53
24	86	82	99	78	e60	132	102	273	117	56	38	53
25	84	e80	92	80	e55	154	133	297	112	54	37	52
26	86	e75	83	77	e55	146	154	330	111	52	37	54
27	100	e75	88	e70	e50	115	200	338	107	50	38	52
28	89	e80	92	e75	e50	116	231	316	117	48	38	51
29	112	89	92	83	---	130	196	292	111	47	37	50
30	104	101	94	88	---	132	185	258	105	70	37	49
31	95	---	93	87	---	118	---	231	---	88	37	---
TOTAL	2734	2213	3013	2498	1844	2666	3399	8396	4717	2256	1402	1642
MEAN	88.2	73.8	97.2	80.6	65.9	86.0	113	271	157	72.8	45.2	54.7
MAX	112	101	111	88	87	154	231	582	240	98	70	81
MIN	72	55	83	70	50	54	73	149	105	47	37	37
AC-FT	5420	4390	5980	4950	3660	5290	6740	16650	9360	4470	2780	3260
CFSM	.60	.50	.66	.55	.45	.59	.77	1.84	1.07	.50	.31	.37
IN.	.69	.56	.76	.63	.47	.67	.86	2.12	1.19	.57	.35	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2001, BY WATER YEAR (WY)

MEAN	98.6	99.3	91.4	84.5	82.1	86.4	212	559	642	284	116	93.1
MAX	181	178	202	224	163	158	417	1026	1157	717	244	151
(WY)	1963	1928	1942	1997	1963	1934	1943	1956	1911	1943	1943	1965
MIN	56.4	57.4	54.8	50.0	54.5	65.0	87.9	271	157	61.5	42.4	39.7
(WY)	1993	1993	1932	1930	1993	1912	1955	2001	2001	1994	1994	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1911 - 2001	
ANNUAL TOTAL	58448		36780			
ANNUAL MEAN	160		101		201	
HIGHEST ANNUAL MEAN					331	1997
LOWEST ANNUAL MEAN					101	2001
HIGHEST DAILY MEAN	707	Jun 13	582	May 16	1900	May 24 1956
LOWEST DAILY MEAN	55	Aug 27	37	Aug 25	34	Aug 28 1994
ANNUAL SEVEN-DAY MINIMUM	56	Aug 25	37	Aug 25	35	Aug 31 1994
ANNUAL RUNOFF (AC-FT)	115900		72950		145700	
ANNUAL RUNOFF (CFSM)	1.09		.69		1.37	
ANNUAL RUNOFF (INCHES)	14.79		9.31		18.59	
10 PERCENT EXCEEDS	409		183		543	
50 PERCENT EXCEEDS	87		82		100	
90 PERCENT EXCEEDS	68		50		66	

e Estimated

SALMON RIVER BASIN

13296500 SALMON RIVER BELOW YANKEE FORK NEAR CLAYTON, ID

LOCATION.--Lat 44°16'06", long 114°43'55", in sec.20, T.1 N., R.15 E. (unsurveyed), Custer County, Hydrologic Unit 17060201, Challis National Forest, on left bank, 700 ft downstream from Yankee Fork, 18 mi upstream from Clayton, and at mile 366.9.

Drainage AREA.--802 mi^2. Mean elevation, 7,790 ft.

PERIOD OF RECORD.--October 1921 to October 1991, May 2000 to current year. Monthly discharge only for some periods, published in WSP 1317. Operated as high-flow station only 1972-76 (discharge for period October 1976 to April 1977 was estimated). .

REVISED RECORDS.--WSP 1347: 1931. WSP 1567: Drainage area. WDR ID-77-1: 1974-76 (M).

GAGE.--Water-stage recorder. Datum of gage is 5,900 ft by barometer. Oct. 3, 1926 to Nov. 5 1934, at site 200 ft downstream at approximately present datum. Prior to Oct. 3, 1926, nonrecording gage at site 200 ft downstream at datum approximately 1.5 ft higher..

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions above station for irrigation of about 10,500 acres (1971 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s June 17, 1974, gage height, 11.86 ft; minimum, 160 ft^3/s, estimated, Nov. 25-30, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,350 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 16	1330	*2,400	*5.31	No other peak greater than base discharge.			

Minimum daily, 234 ft^3/s Sept. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	431	468	373	335	335	304	515	991	1300	518	369	238
2	444	428	362	325	329	321	512	868	1260	496	344	238
3	422	416	363	341	337	315	432	788	1250	480	327	234
4	416	440	372	363	334	318	453	767	1280	467	322	235
5	424	449	371	361	342	327	423	813	1200	463	317	240
6	416	424	366	339	325	322	436	836	1120	456	302	371
7	415	376	362	309	329	325	425	831	1030	446	298	362
8	415	410	366	320	291	327	418	889	950	469	288	322
9	413	424	375	364	325	347	387	976	879	496	284	301
10	426	418	349	351	327	343	391	1030	855	506	292	295
11	478	409	338	339	319	338	401	1070	849	478	290	287
12	520	383	325	358	316	336	405	1160	985	466	291	282
13	515	e360	365	351	313	331	400	1350	952	448	294	286
14	499	e360	373	344	302	337	382	1520	882	424	309	334
15	488	e380	361	338	320	314	382	1940	815	440	299	315
16	472	e380	330	315	322	347	396	2310	765	451	292	379
17	463	e360	384	316	313	327	427	2100	724	428	280	357
18	462	e360	356	337	321	329	485	1880	701	410	271	342
19	461	e360	361	347	321	364	528	1740	681	396	265	322
20	455	e380	368	328	328	488	527	1650	636	391	264	313
21	490	e380	376	335	331	500	521	1540	627	379	266	311
22	486	e380	383	344	332	486	496	1460	620	359	263	308
23	458	e380	380	333	319	499	481	1460	610	348	261	306
24	461	e380	380	336	316	525	473	1530	600	337	249	312
25	456	e360	359	344	304	579	552	1610	584	329	246	304
26	456	e380	334	333	313	590	665	1690	578	321	243	309
27	504	e400	356	304	308	510	796	1720	565	310	239	305
28	477	360	354	312	296	490	971	1680	596	308	239	301
29	515	360	357	315	---	505	911	1600	563	305	245	297
30	514	403	377	331	---	516	859	1480	543	363	247	285
31	487	---	363	335	---	497	---	1370	---	431	246	---
TOTAL	14339	11768	11239	10403	8968	12457	15450	42649	25000	12919	8742	9091
MEAN	463	392	363	336	320	402	515	1376	833	417	282	303
MAX	520	468	384	364	342	590	971	2310	1300	518	369	379
MIN	413	360	325	304	291	304	382	767	543	305	239	234
AC-FT	28440	23340	22290	20630	17790	24710	30650	84590	49590	25620	17340	18030
CFSM	.58	.49	.45	.42	.40	.50	.64	1.72	1.04	.52	.35	.38
IN.	.67	.55	.52	.48	.42	.58	.72	1.98	1.16	.60	.41	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2001, BY WATER YEAR (WY)

MEAN	507	495	443	410	403	422	920	2564	3185	1390	595	488
MAX	796	813	755	659	665	699	1924	4993	6944	3749	1281	903
(WY)	1963	1984	1942	1974	1963	1986	1943	1928	1974	1943	1965	1965
MIN	300	277	272	230	250	284	421	601	833	402	269	263
(WY)	1925	1930	1933	1930	1930	1930	1967	1977	2001	1931	1931	1931

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1922 - 2001	
ANNUAL TOTAL	183025			
ANNUAL MEAN	501		983	
HIGHEST ANNUAL MEAN			1638	1974
LOWEST ANNUAL MEAN			466	1977
HIGHEST DAILY MEAN	2310	May 16	10300	Jun 17 1974
LOWEST DAILY MEAN	234	Sep 3	160	Nov 25 1929
ANNUAL SEVEN-DAY MINIMUM	240	Aug 30	166	Nov 25 1929
ANNUAL RUNOFF (AC-FT)	363000		711900	
ANNUAL RUNOFF (CFSM)	.63		1.23	
ANNUAL RUNOFF (INCHES)	8.49		16.65	
10 PERCENT EXCEEDS	898		2520	
50 PERCENT EXCEEDS	377		507	
90 PERCENT EXCEEDS	299		345	

e Estimated

SALMON RIVER BASIN

13297330 THOMPSON CREEK NEAR CLAYTON, ID

LOCATION.--Lat 44°16'01", long 114°30'48", in NE¼NE¼SE¼ sec.24, T.11 N., R.16 E., Custer County, Hydrologic Unit 17060201, on right bank, 1.2 mi upstream from mouth, 2.2 mi below Pat Hughes Creek, and 5.7 mi west of Clayton.

DRAINAGE AREA.--29.1 mi^2.

PERIOD OF RECORD.--November 1972 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,700 ft above sea level, from topographic map. Prior to June 13, 1982, recording gage at site 200 ft upstream at datum 2 ft higher.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 442 ft^3/s May 15, 1997, gage height, 4.07 ft; minimum, 1.0 ft^3/s Mar. 16, 1980, gage height, 3.73 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 80 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 16	0715	*52	*[a]3.65	No other peak greater than base discharge.			

(a) from crest-stage gage reading

Minimum, 1.4 ft^3/s Aug. 27, 28, gage height, 2.49 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.3	3.2	2.9	3.1	e2.5	6.7	17	18	8.3	3.1	2.2
2	3.7	3.1	3.0	e2.5	3.0	2.6	5.9	15	17	8.6	2.7	2.1
3	3.4	3.0	3.3	3.0	3.0	2.4	5.6	14	17	9.0	2.4	2.0
4	3.3	3.3	3.2	3.1	3.0	2.5	6.1	13	17	8.1	2.4	2.0
5	3.1	3.3	3.2	3.2	2.9	2.6	5.8	14	16	8.1	2.3	2.0
6	3.0	3.2	3.2	e2.5	2.8	2.5	5.4	15	15	8.1	2.4	3.1
7	3.0	2.9	3.2	e2.0	e2.5	2.6	4.7	15	15	8.0	2.3	3.8
8	3.0	3.4	3.1	e2.5	e2.0	2.9	4.6	17	14	7.8	2.0	3.0
9	3.0	3.4	3.1	3.2	e2.5	3.4	4.5	19	14	8.2	2.6	2.9
10	3.2	3.3	3.0	3.1	e2.5	3.4	4.6	20	13	9.2	2.8	2.4
11	3.6	3.3	2.9	3.1	2.9	3.5	4.7	21	14	7.8	2.7	2.6
12	3.8	2.9	3.0	3.0	e3.0	3.5	4.8	22	15	6.8	2.7	2.5
13	3.7	2.5	3.1	2.9	e2.5	3.4	4.6	26	14	5.7	2.7	2.5
14	3.6	3.5	3.1	2.9	e2.5	3.4	4.5	28	13	4.7	2.6	2.8
15	3.6	3.4	3.1	2.9	2.7	3.0	4.6	34	12	4.2	2.7	2.8
16	3.5	3.3	3.1	e2.5	2.6	3.6	5.0	39	12	4.4	2.5	3.3
17	3.5	2.8	3.2	e2.5	2.5	3.3	5.6	35	11	4.2	2.3	3.2
18	3.4	2.9	3.0	3.0	2.4	3.4	7.1	30	11	4.1	2.2	2.8
19	3.4	3.2	3.2	2.9	2.2	3.8	8.7	27	12	3.6	2.0	2.8
20	3.3	3.2	3.1	e3.0	2.2	5.2	8.6	26	12	3.6	2.0	2.5
21	3.4	3.3	3.1	3.3	2.2	5.7	7.9	24	11	3.4	1.9	2.2
22	3.3	3.3	3.1	3.4	2.3	5.7	7.6	23	10	3.0	2.0	2.3
23	3.1	3.0	3.1	3.4	2.4	6.2	7.6	23	9.9	3.0	2.1	2.3
24	3.1	3.3	3.2	3.1	2.2	6.9	7.7	26	9.7	2.9	2.1	2.3
25	3.3	3.1	3.2	3.4	e2.0	7.9	10	27	9.5	2.9	2.1	2.4
26	3.4	2.9	3.0	3.0	e2.0	7.5	14	28	9.3	2.8	2.1	2.2
27	3.5	3.0	3.2	e3.0	e2.0	6.7	17	26	9.4	2.5	2.0	2.1
28	3.4	3.0	3.1	e2.5	e2.5	6.4	18	25	11	2.5	1.8	2.2
29	3.5	3.2	3.0	e3.0	---	6.3	16	23	9.5	2.4	1.9	2.4
30	3.4	3.3	3.1	3.2	---	6.6	15	20	8.4	3.1	1.9	2.4
31	3.3	---	3.1	3.1	---	6.6	---	18	---	3.7	2.1	---
TOTAL	104.3	94.6	96.5	91.1	70.4	136.0	232.9	710	379.7	164.7	71.4	76.1
MEAN	3.36	3.15	3.11	2.94	2.51	4.39	7.76	22.9	12.7	5.31	2.30	2.54
MAX	3.8	3.5	3.3	3.4	3.1	7.9	18	39	18	9.2	3.1	3.8
MIN	3.0	2.5	2.9	2.0	2.0	2.4	4.5	13	8.4	2.4	1.8	2.0
AC-FT	207	188	191	181	140	270	462	1410	753	327	142	151
CFSM	.12	.11	.11	.10	.09	.15	.27	.79	.43	.18	.08	.09
IN.	.13	.12	.12	.12	.09	.17	.30	.91	.49	.21	.09	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001, BY WATER YEAR (WY)

MEAN	4.95	5.09	4.59	4.40	4.52	7.91	24.0	62.2	61.4	17.6	6.83	5.03
MAX	8.07	14.0	11.9	10.3	9.91	25.5	60.1	170	168	43.9	15.3	9.90
(WY)	1985	1984	1984	1984	1984	1986	1986	1997	1974	1982	1984	1984
MIN	2.87	2.47	2.85	2.46	2.24	3.13	5.34	7.88	9.56	3.45	2.14	2.07
(WY)	1980	1980	1980	1980	1980	1977	1975	1977	1994	1994	1977	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1973 - 2001	
ANNUAL TOTAL	4526.4		2227.7			
ANNUAL MEAN	12.4		6.10		17.4	
HIGHEST ANNUAL MEAN					37.9	1997
LOWEST ANNUAL MEAN					4.70	1977
HIGHEST DAILY MEAN	93	May 24	39	May 16	373	May 15 1997
LOWEST DAILY MEAN	2.5	Jan 29	1.8	Aug 28	1.4	Nov 21 1979
ANNUAL SEVEN-DAY MINIMUM	3.0	Nov 12	2.0	Aug 24	1.6	Aug 18 1977
ANNUAL RUNOFF (AC-FT)	8980		4420		12600	
ANNUAL RUNOFF (CFSM)	.42		.21		.60	
ANNUAL RUNOFF (INCHES)	5.79		2.85		8.12	
10 PERCENT EXCEEDS	37		15		47	
50 PERCENT EXCEEDS	4.1		3.2		6.0	
90 PERCENT EXCEEDS	3.1		2.3		3.1	

e Estimated

SALMON RIVER BASIN

13297350 BRUNO CREEK NEAR CLAYTON, ID

LOCATION.--Lat 44°17'56", long 114°26'50", in SW¼NE¼ sec.8, T.11 N., R.17 E., Custer County, Hydrologic Unit 17060201, U.S. Bureau of Land Management lands, on left bank, 0.2 mi upstream from mouth, and 4.8 mi northwest of Clayton.

DRAINAGE AREA.--6.29 mi^2.

PERIOD OF RECORD.--April 1971 to current year.

REVISED RECORDS.--WDR ID-76-1: 1974-75(P).

GAGE.--Water-stage recorder and cipolletti weir since 1978. Elevation of gage is 5,840 ft above sea level, from topographic map.

REMARKS.--Records poor. Flow affected at times by diversions from stream or by return flow from ground-water pumpage at mine about 2 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42 ft^3/s May 31, 1972, gage height, 2.45 ft, prior to installation of cipolletti weir in 1978; maximum gage height, 3.21 ft, June 2, 3, 1986; periods of no flow occurred Dec. 14, 1980 to Feb. 20, 1981, Mar. 4 to Apr. 10, 1982, Aug. 6-12, 1990, Oct. 18 -21, 1990, Apr. 18-20, 1991, Aug. 9-16, 31, Sept. 1, 4, 8-23, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 0.30 ft^3/s May 1; minimum daily, 0.10 ft^3/s Aug. 28, 30, 31, Sept. 1, 2, 4, 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.20	e.25	e.20	e.20	e.20	e.20	e.30	.15	.14	.12	.10
2	.22	.18	e.25	e.20	e.20	e.20	e.20	e.25	.15	.14	.12	.10
3	.22	.18	e.25	e.20	e.20	e.20	e.20	e.20	.15	.14	.12	.11
4	.22	.21	e.25	e.20	e.20	e.20	e.20	e.20	.15	.14	.12	.10
5	.22	e.20	e.25	e.20	e.20	e.20	e.20	e.20	.15	.13	.12	.10
6	.22	e.20	e.25	e.20	e.20	e.20	e.20	e.20	.15	.13	.12	.13
7	.22	e.20	e.25	e.20	e.20	e.20	e.20	e.20	.15	.15	.12	.12
8	.22	e.20	e.25	e.20	e.20	e.20	e.20	e.20	.15	.15	.12	.14
9	.22	e.20	e.25	e.20	e.20	e.20	e.20	e.20	.15	.16	.12	.15
10	.22	e.20	e.25	e.20	e.20	e.20	e.20	e.20	.15	.15	.12	.15
11	.22	e.20	e.25	e.20	e.20	e.20	e.20	e.20	.15	.15	.12	.14
12	.22	e.20	e.25	e.20	e.20	e.20	e.20	.17	.15	.15	.12	.12
13	.22	e.20	e.25	e.20	e.20	e.20	e.20	.15	.15	.14	.12	.13
14	.22	e.20	e.25	e.20	e.20	e.20	e.20	.15	.15	.14	.13	.12
15	.22	e.20	e.20	e.20	e.20	e.20	e.20	.18	.15	.14	.12	.13
16	.22	e.20	e.20	e.20	e.20	e.20	e.20	.18	.14	.15	.12	.15
17	.22	e.20	e.20	e.20	e.20	e.20	e.20	.18	.12	.14	.12	.15
18	.20	e.20	e.20	e.20	e.20	e.20	e.20	.17	.13	.14	.12	.15
19	.18	e.20	e.20	e.20	e.20	e.20	e.20	.17	.13	.12	.12	.15
20	.18	e.20	e.20	e.20	e.20	e.20	e.20	.15	.13	.12	.12	.14
21	.20	e.20	e.20	e.20	e.20	e.20	e.20	.15	.12	.12	.12	.14
22	.18	e.20	e.20	e.20	e.20	e.20	e.20	.15	.12	.12	.12	.14
23	.18	e.20	e.20	e.20	e.20	e.20	e.25	.15	.12	.12	.12	.14
24	.22	e.20	e.20	e.20	e.20	e.20	e.25	.15	.12	.12	.12	.15
25	.21	e.20	e.20	e.20	e.20	e.20	e.25	.15	.12	.12	.11	.15
26	.22	e.20	e.20	e.20	e.20	e.20	e.25	.15	.13	.12	.11	.15
27	.22	e.20	e.20	e.20	e.20	e.20	e.25	.15	.14	.12	.11	.15
28	.22	e.25	e.20	e.20	e.20	e.20	e.25	.15	.15	.12	.10	.15
29	.22	e.25	e.20	e.20	---	e.20	e.25	.15	.15	.12	.11	.15
30	.22	e.25	e.20	e.20	---	e.20	e.25	.15	.15	.12	.10	.16
31	.22	---	e.20	e.20	---	e.20	---	.15	---	.12	.10	---
TOTAL	6.61	6.12	6.90	6.20	5.60	6.20	6.40	5.50	4.22	4.14	3.63	4.06
MEAN	.21	.20	.22	.20	.20	.20	.21	.18	.14	.13	.12	.14
MAX	.22	.25	.25	.20	.20	.20	.25	.30	.15	.16	.13	.16
MIN	.18	.18	.20	.20	.20	.20	.20	.15	.12	.12	.10	.10
AC-FT	13	12	14	12	11	12	13	11	8.4	8.2	7.2	8.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)

MEAN	.39	.38	.38	.32	.37	.44	1.19	4.37	4.99	1.21	.49	.37
MAX	1.18	1.25	1.57	1.27	1.86	1.25	3.44	13.9	18.6	4.47	1.39	1.17
(WY)	1985	1984	1981	1984	1982	1984	1974	1971	1971	1982	1982	1984
MIN	.12	.11	.11	.000	.087	.19	.21	.18	.13	.11	.027	.026
(WY)	1993	1978	1995	1981	1981	1995	2001	2001	1994	1994	1992	1992

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1971 - 2001	
ANNUAL TOTAL	120.49		65.58			
ANNUAL MEAN	.33		.18		1.17	
HIGHEST ANNUAL MEAN					3.27	1982
LOWEST ANNUAL MEAN					.18	2001
HIGHEST DAILY MEAN	.88	Apr 9	.30	May 1	32	May 31 1972
LOWEST DAILY MEAN	.15	Jan 6	.10	Aug 28	.00	Dec 14 1980
ANNUAL SEVEN-DAY MINIMUM	.19	Oct 17	.10	Aug 30	.00	Dec 14 1980
ANNUAL RUNOFF (AC-FT)	239		130		847	
10 PERCENT EXCEEDS	.61		.22		2.9	
50 PERCENT EXCEEDS	.26		.20		.39	
90 PERCENT EXCEEDS	.20		.12		.15	

e Estimated

SALMON RIVER BASIN

13297355 SQUAW CREEK BELOW BRUNO CREEK, NEAR CLAYTON, ID

LOCATION.--Lat 44°17'26", long 114°28'14", in SW¼SW¼SW¼ sec.9, T.11 N., R.17 E., Custer County, Hydrologic Unit 17060201, on left bank, 3 mi upstream from mouth and 4.5 mi northwest of Clayton.

DRAINAGE AREA.--79.0 mi^2.

PERIOD OF RECORD.--October 1972 to current year.

REVISED RECORDS.--WDR ID-76-1: 1975(P).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,710 ft above sea level, from topographic map. Prior to June 12, 1974, at datum 2.46 ft higher.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 755 ft^3/s May 29, 1986, gage height, 6.31 ft; minimum, 3.3 ft^3/s Mar. 11, 1979, gage height, 2.49 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 180 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 12	2315	*84	*4.38	No peaks greater than base discharge.			

Minimum daily, 6.7 ft^3/s Aug. 28, 29, Sept. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	11	e10	e9.5	9.7	e9.0	15	37	35	13	10	7.7
2	11	9.8	e9.5	e8.5	8.9	8.3	15	31	33	13	9.4	7.0
3	9.8	14	e9.5	e8.5	8.6	8.2	17	27	34	12	9.0	6.7
4	9.9	13	e9.0	e8.5	8.6	e8.0	14	27	35	12	9.1	6.8
5	9.7	11	e9.5	e9.0	8.6	8.5	14	31	33	12	8.7	7.1
6	9.6	9.9	e10	e8.0	e8.0	9.3	13	32	31	12	8.3	12
7	9.8	e12	e9.5	e8.0	e7.5	9.8	13	32	30	12	8.1	11
8	9.9	e10	e9.0	e7.5	e7.0	e10	13	39	27	13	7.9	9.7
9	9.8	e11	e9.5	e7.5	e7.5	10	15	46	25	15	7.9	8.9
10	10	e10	e9.0	e8.5	e8.5	9.8	14	49	24	17	7.9	8.5
11	12	e9.5	e8.5	e9.0	e8.5	10	12	52	24	17	7.9	7.9
12	12	e9.0	e8.0	e8.5	e7.5	9.5	12	61	26	14	8.3	7.6
13	12	e9.0	e8.5	e8.0	e7.5	10	12	70	26	13	8.1	7.9
14	12	e9.5	e9.0	e8.0	e7.5	10	12	71	24	12	8.3	11
15	12	e9.5	e9.5	e7.5	e8.0	e10	12	77	23	12	8.3	9.2
16	12	e9.5	e9.0	e7.5	8.3	10	12	75	21	13	8.1	15
17	12	e9.5	e8.5	e7.5	e8.0	10	14	67	20	12	7.7	11
18	12	e9.5	e9.0	e8.0	e8.0	10	17	63	19	11	7.3	9.9
19	11	e9.0	e8.5	e9.0	e8.0	11	19	60	19	11	7.1	9.1
20	11	e9.5	e8.5	e8.5	8.1	13	18	57	18	11	7.1	8.6
21	12	e9.5	e9.0	e8.5	8.1	13	17	52	17	10	7.1	8.4
22	11	e9.0	e9.5	8.8	8.2	14	17	51	16	10	7.1	8.3
23	10	e9.0	10	e8.5	e7.5	15	16	51	16	9.6	7.1	8.3
24	11	e9.0	9.6	e8.5	e7.5	15	17	53	16	9.3	7.0	8.2
25	11	e9.5	e9.0	8.7	e7.0	17	23	53	15	9.1	7.0	8.1
26	11	e10	e8.5	e8.0	e7.0	15	29	53	15	8.8	6.9	8.3
27	12	e10	e8.5	e7.5	e8.0	15	33	51	15	8.6	6.8	8.3
28	11	e9.0	e9.5	e7.5	e10	14	38	48	17	8.4	6.7	8.1
29	12	e9.5	e9.5	e7.5	---	14	34	43	15	8.3	6.7	7.9
30	12	e10	e9.0	e8.5	---	15	32	40	14	11	6.8	7.8
31	12	---	e9.5	e9.5	---	15	---	37	---	13	7.2	---
TOTAL	342.5	299.7	283.1	256.5	225.6	356.4	539	1536	683	363.1	240.9	264.3
MEAN	11.0	9.99	9.13	8.27	8.06	11.5	18.0	49.5	22.8	11.7	7.77	8.81
MAX	12	14	10	9.5	10	17	38	77	35	17	10	15
MIN	9.6	9.0	8.0	7.5	7.0	8.0	12	27	14	8.3	6.7	6.7
AC-FT	679	594	562	509	447	707	1070	3050	1350	720	478	524
CFSM	.14	.13	.12	.10	.10	.15	.23	.63	.29	.15	.10	.11
IN.	.16	.14	.13	.12	.11	.17	.25	.72	.32	.17	.11	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001, BY WATER YEAR (WY)

MEAN	11.1	11.2	10.6	10.3	9.98	15.3	41.4	115	127	35.2	13.6	11.1
MAX	17.4	21.9	19.1	23.6	16.3	35.6	86.0	280	312	94.7	24.8	18.6
(WY)	1998	1984	1998	1997	1984	1986	1986	1997	1974	1982	1999	1997
MIN	5.01	5.88	6.53	6.18	6.41	7.84	12.4	17.7	16.6	6.90	5.38	5.10
(WY)	1992	1995	1990	1995	1994	1977	1975	1977	1994	1994	1977	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1973 - 2001	
ANNUAL TOTAL	9517.4		5390.1			
ANNUAL MEAN	26.0		14.8		34.3	
HIGHEST ANNUAL MEAN					71.1	1997
LOWEST ANNUAL MEAN					10.9	1977
HIGHEST DAILY MEAN	158	May 24	77	May 15	640	Jun 16 1974
LOWEST DAILY MEAN	8.0	Dec 12	6.7	Aug 28	3.8	Nov 26 1981
ANNUAL SEVEN-DAY MINIMUM	8.7	Dec 11	6.8	Aug 24	4.2	Sep 6 1977
ANNUAL RUNOFF (AC-FT)	18880		10690		24850	
ANNUAL RUNOFF (CFSM)	.33		.19		.43	
ANNUAL RUNOFF (INCHES)	4.48		2.54		5.90	
10 PERCENT EXCEEDS	72		31		87	
50 PERCENT EXCEEDS	12		9.9		13	
90 PERCENT EXCEEDS	9.4		7.6		7.1	

e Estimated

SALMON RIVER BASIN

13302005 PAHSIMEROI RIVER AT ELLIS, ID

LOCATION.--Lat 44°41'30", long 114°02'49"(revised), in NW¼SW¼NW¼ sec.25, T.16 N., R.20 E., on Custer-Lemhi County line, Hydrologic Unit 17060202, on right bank, about 500 ft upstream from mouth, at Ellis.

DRAINAGE AREA.--827 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,634.96 ft above sea level.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 710 ft^3/s June 4, 1986; maximum gage height, 7.37 ft, June 2, 1986, backwater from Salmon River; minimum, 89 ft^3/s July 6, 7, 8, 1989, gage height, 1.18 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 359 ft^3/s Mar. 9, 10, gage height, 2.32 ft; minimum, 92 ft^3/s May 12, gage height, 0.69 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	193	305	298	266	265	279	269	179	108	128	132	135
2	198	304	288	262	282	287	268	168	109	127	131	132
3	213	306	283	256	289	285	269	170	122	135	130	129
4	216	311	280	255	298	283	245	164	135	122	132	129
5	217	316	276	257	293	288	228	144	133	126	131	125
6	227	312	278	258	290	292	221	139	133	125	132	147
7	238	309	279	256	286	297	222	129	130	119	132	141
8	245	313	282	251	281	300	223	117	133	124	132	141
9	246	315	283	252	269	321	223	112	133	127	131	148
10	250	318	292	252	269	329	224	108	131	130	140	150
11	251	314	290	253	271	316	224	109	131	133	141	149
12	274	313	284	256	272	302	227	100	139	133	135	151
13	289	308	272	253	273	303	228	97	149	129	128	155
14	288	302	267	258	272	301	225	101	146	129	134	173
15	285	306	271	270	272	290	224	103	145	147	139	168
16	283	305	272	275	282	287	225	119	141	152	137	175
17	276	298	266	258	291	287	226	118	139	148	134	173
18	272	292	268	257	287	290	225	109	138	144	134	176
19	270	288	265	258	286	296	227	106	138	143	137	174
20	267	285	265	269	284	308	230	105	134	141	136	172
21	274	283	264	270	283	304	249	107	128	143	137	174
22	280	280	263	273	284	294	244	106	124	141	136	176
23	279	277	263	276	286	288	239	108	129	142	134	173
24	279	274	268	279	285	285	236	110	126	148	135	171
25	286	274	266	288	284	281	232	107	120	136	133	168
26	292	278	269	297	284	283	231	113	122	135	132	180
27	292	287	271	291	283	275	226	113	124	128	132	184
28	297	299	272	269	280	277	228	112	130	130	127	183
29	305	295	268	261	---	275	225	109	129	127	132	183
30	313	296	268	261	---	270	213	106	127	132	131	184
31	310	---	270	260	---	268	---	106	---	135	134	---
TOTAL	8205	8963	8501	8197	7881	9041	6976	3694	3926	4159	4141	4819
MEAN	265	299	274	264	281	292	233	119	131	134	134	161
MAX	313	318	298	297	298	329	269	179	149	152	141	184
MIN	193	274	263	251	265	268	213	97	108	119	127	125
AC-FT	16270	17780	16860	16260	15630	17930	13840	7330	7790	8250	8210	9560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2001, BY WATER YEAR (WY)

MEAN	287	320	297	285	291	297	235	152	213	184	159	191
MAX	501	496	427	406	374	401	355	212	417	348	219	307
(WY)	1985	1985	1985	1985	1985	1985	1985	1999	1986	1998	1998	1986
MIN	202	239	219	227	227	221	174	111	121	111	118	130
(WY)	1995	1995	1995	1993	1989	1990	1990	1992	1994	1989	2000	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1985 - 2001	
ANNUAL TOTAL	84588		78503			
ANNUAL MEAN	231		215		242	
HIGHEST ANNUAL MEAN					329	1985
LOWEST ANNUAL MEAN					196	1990
HIGHEST DAILY MEAN	358	Feb 24	329	Mar 10	710	Jun 4 1986
LOWEST DAILY MEAN	97	Jul 15	97	May 13	94	Jul 7 1989
ANNUAL SEVEN-DAY MINIMUM	103	Jul 11	104	May 9	98	Jul 6 1989
ANNUAL RUNOFF (AC-FT)	167800		155700		175500	
10 PERCENT EXCEEDS	334		296		346	
50 PERCENT EXCEEDS	266		238		241	
90 PERCENT EXCEEDS	117		126		132	

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1992, 1995, April to September 1998, April to September 2001 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: March to September 1998, May to September 2001 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 20.1 °C July 17-18, 25, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 16.7 °C May 11.

WATER-QUALITY DATA, MAY TO SEPTEMBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)
MAY										
09...	1549	111	320	8.8	19.5	14.0	3.5	11.8	136	68
30...	1233	109	381	8.4	22.4	11.7	3.8	11.3	122	140
JUN										
15...	0914	147	390	8.0	9.6	9.7	6.1	9.0	93.7	90
JUL										
18...	0920	148	393	8.2	15.6	12.0	2.8	9.8	108	300
AUG										
09...	1254	132	392	8.4	27.0	15.6	4.2	11.2	133	180
SEP										
20...	0952	172	398	8.2	5.5	9.8	2.6	8.3	86.2	S60

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)	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)
SEP													
20...	190	49.4	16.3	10.5	10.6	2.00	240	0	193	19.4	7.5	.2	20.7

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAY							
09...	.009	.32	.142	.012	.034	9	2.6
30...	.014	.34	.210	.028	.055	8	2.4
JUN							
15...	.018	.19	.242	.018	.037	7	2.8
JUL							
18...	.015	.22	.130	.017	.031	5	2.0
AUG							
09...	.013	.25	.107	.028	.032	3	1.1
SEP							
20...	.006	.18	.132	.022	.033	3	1.4

< Less than
E Estimated value
S Most probable value

SALMON RIVER BASIN

13302005 PAHSIMEROI RIVER AT ELLIS, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, MAY TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	16.6	7.5	11.9
11	---	---	---	---	---	---	---	---	---	16.7	7.8	12.3
12	---	---	---	---	---	---	---	---	---	15.6	8.5	12.3
13	---	---	---	---	---	---	---	---	---	16.4	10.2	13.1
14	---	---	---	---	---	---	---	---	---	14.7	9.0	12.0
15	---	---	---	---	---	---	---	---	---	13.5	9.8	11.5
16	---	---	---	---	---	---	---	---	---	14.9	8.7	11.4
17	---	---	---	---	---	---	---	---	---	14.9	7.3	11.1
18	---	---	---	---	---	---	---	---	---	15.5	9.1	12.1
19	---	---	---	---	---	---	---	---	---	14.2	8.4	11.4
20	---	---	---	---	---	---	---	---	---	13.6	8.7	11.1
21	---	---	---	---	---	---	---	---	---	14.1	7.5	10.7
22	---	---	---	---	---	---	---	---	---	15.2	8.7	11.9
23	---	---	---	---	---	---	---	---	---	15.3	9.3	12.4
24	---	---	---	---	---	---	---	---	---	14.1	9.8	12.1
25	---	---	---	---	---	---	---	---	---	13.1	10.1	11.9
26	---	---	---	---	---	---	---	---	---	12.7	9.6	11.3
27	---	---	---	---	---	---	---	---	---	13.1	9.6	11.4
28	---	---	---	---	---	---	---	---	---	12.8	9.6	11.2
29	---	---	---	---	---	---	---	---	---	13.0	9.3	11.2
30	---	---	---	---	---	---	---	---	---	12.7	8.5	10.6
31	---	---	---	---	---	---	---	---	---	13.6	9.4	11.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.3	9.8	11.6	14.2	12.1	13.2	14.5	11.8	13.2	13.8	12.2	13.0
2	12.5	10.2	11.3	14.2	12.1	13.3	15.2	12.2	13.7	13.9	12.5	13.2
3	11.5	9.0	9.6	14.5	12.5	13.5	14.7	12.5	13.5	13.8	12.4	13.1
4	9.8	8.1	8.8	14.2	12.5	13.2	14.4	12.5	13.5	13.8	12.4	12.9
5	9.9	8.1	9.0	13.3	12.4	12.9	14.9	12.1	13.5	13.5	12.4	12.9
6	11.8	8.7	10.0	13.9	12.1	13.0	15.2	12.5	13.9	13.3	11.5	12.1
7	12.2	9.6	10.9	13.9	12.2	12.7	15.0	13.0	14.0	11.5	10.7	11.1
8	12.7	9.8	11.2	13.1	11.9	12.5	15.2	13.0	14.1	12.2	10.4	11.2
9	13.3	10.5	11.8	13.0	12.2	12.6	14.9	13.1	14.0	12.7	11.0	11.8
10	12.7	10.4	11.6	13.3	11.9	12.5	15.0	12.7	13.9	13.0	11.5	12.2
11	12.1	10.5	11.4	13.5	12.2	12.8	14.7	12.8	13.7	13.3	11.9	12.6
12	11.5	9.6	10.3	13.3	12.2	12.9	14.2	12.4	13.4	13.3	12.1	12.6
13	10.2	8.5	9.3	13.3	12.1	12.7	14.5	12.7	13.6	13.5	12.4	12.9
14	11.5	8.8	10.1	13.1	12.1	12.7	14.4	12.7	13.6	13.8	12.7	13.2
15	12.7	9.8	11.1	13.0	11.9	12.4	14.2	12.5	13.4	13.6	12.4	13.0
16	13.0	10.2	11.6	12.7	11.9	12.3	14.1	12.2	13.1	13.6	12.5	12.9
17	13.0	10.7	11.9	12.5	11.6	12.0	14.1	12.5	13.4	13.1	11.9	12.5
18	13.0	10.4	11.7	14.1	11.5	12.7	14.2	12.5	13.4	13.0	11.9	12.5
19	13.3	10.4	11.9	14.9	11.9	13.5	14.1	12.4	13.3	13.0	11.9	12.5
20	14.1	10.8	12.4	14.9	12.4	13.6	13.9	12.2	13.1	12.8	11.5	12.2
21	14.4	11.5	13.0	15.6	12.5	14.0	13.8	12.1	12.9	12.7	11.3	12.0
22	14.4	11.6	13.1	16.0	12.2	14.0	13.9	12.4	13.2	12.5	11.3	11.9
23	14.1	11.6	12.6	16.1	12.7	14.4	13.9	12.4	13.2	12.5	11.3	12.0
24	13.6	10.7	12.1	16.3	12.7	14.5	13.9	12.2	13.1	12.7	11.5	12.1
25	13.1	11.3	12.3	16.3	13.0	14.7	14.2	12.4	13.3	12.7	11.6	12.1
26	13.0	11.1	12.1	16.1	13.0	14.7	14.1	12.5	13.4	12.5	11.6	12.1
27	12.8	11.5	12.2	16.0	13.0	14.5	14.1	12.7	13.4	12.5	11.5	12.0
28	13.9	11.6	12.7	15.3	12.5	14.0	14.2	12.7	13.5	12.4	11.8	12.1
29	14.2	11.8	13.0	14.5	11.9	13.4	14.2	12.8	13.6	12.5	11.6	12.1
30	14.1	11.9	13.1	14.2	12.4	12.9	14.2	12.7	13.4	12.5	11.1	11.8
31	---	---	---	14.2	11.5	12.7	13.8	12.7	13.2	---	---	---
MONTH	14.4	8.1	11.5	16.3	11.5	13.3	15.2	11.8	13.5	13.9	10.4	12.4

COLLECTION METHODS.--Electrofishing; backpack (11A).

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.

BIOLOGICAL DATA, JULY 2001
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
	July 17								
Catostomidae (Suckers)									
Catostomus columbianus (Bridgelip sucker)		3	5	125-147	11-35	NATIVE	OMNIVORE	COLD	3-AA
Cottidae (Sculpins)									
Cottus confusus (Shorthead sculpin)		1	2	105	18	NATIVE	INVERTIVORE	COLD	1-AA
Cottus rhotheus (Torrent sculpin)		24	42	32-110	1-22	NATIVE	INVERTIVORE	COLD	23-BL,1-AA
Cyprinidae (Carps and minnows)									
Rhinichthys osculus (Speckled dace)		3	5	60-80	2-6	NATIVE	INVERTIVORE	COLD	3-AA
Salmonidae (Trouts)									
Oncorhynchus mykiss sp. (Rainbow trout)		14	25	55-215	1-85	NATIVE	INVERTIVORE	COLD	14-AA
Prosopium williamsoni (Mountain whitefish)		12	21	90-350	5-373	NATIVE	INVERTIVORE	COLD	12-AA

TOTAL NUMBER OF TAXA 5
TOTAL INDIVIDUALS 57

SALMON RIVER BASIN

13302500 SALMON RIVER AT SALMON, ID

LOCATION.--Lat 45°11'01", long 113°53'43"(revised), in NE¼NE¼ sec.6, T.21 N., R.22 E., Lemhi County, Hydrologic Unit 17060203, on left bank, 1,000 ft downstream from island, 0.4 mi upstream from Lemhi River, 0.5 mi downstream from highway bridge at Salmon, and at mile 258.9.

DRAINAGE AREA.--3,760 mi^2, approximately. Mean elevation, 7,380 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1912 to September 1916, July 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1043: Drainage area. WSP 1317: 1916.

GAGE.--Water-stage recorder. Datum of gage is 3,911.14 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Oct. 21, 1929, nonrecording gage at site 700 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes telemetry. Diversions above station for irrigation of about 83,800 acres, of which about 900 acres are irrigated by withdrawals from groundwater (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,700 ft^3/s June 17, 1974, gage height, 8.67 ft; maximum gage height, 10.33 ft, Feb. 7, 1985, ice jam; minimum, 242 ft^3/s Jan. 8, 1937, gage height, 1.50 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,300 ft^3/s May 17, gage height, 3.61 ft; maximum gage height, 5.52 ft, Jan. 17, ice jam; minimum daily, 371 ft^3/s Aug. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	1420	1240	e1000	e1100	906	1200	1560	2110	977	640	399
2	1000	1390	1150	e900	e1100	943	1200	1630	2050	946	622	410
3	1050	1330	1100	e950	e1100	1010	1200	1520	2080	903	574	390
4	1050	1310	e1100	e1000	e1100	995	1120	1390	2110	888	557	385
5	1030	1340	e1200	e1000	e1100	996	1100	1300	2070	875	549	396
6	1040	1360	e1100	e1100	e1000	1020	1070	1260	1950	883	523	495
7	1080	1320	e1000	e1000	e900	1030	1080	1250	1800	836	501	601
8	1090	1280	e1100	e900	e850	1040	1080	1200	1680	782	463	680
9	1080	1290	e1100	e1000	e800	1070	1070	1220	1560	806	454	655
10	1070	1310	e1100	e1100	e950	1130	1020	1360	1470	892	474	633
11	1090	1290	e1000	e1100	e1100	1110	1010	1440	1440	968	480	602
12	1220	1280	e1000	e1100	e1100	1070	1030	1500	1450	966	480	576
13	1330	1210	e950	e1000	e1000	1050	1030	1670	1620	935	458	589
14	1370	1160	e1100	e1000	e1000	1050	1020	2070	1600	927	448	620
15	1310	1190	e1200	e1000	e1100	1020	997	2410	1480	905	468	661
16	1290	1220	e1200	e900	e1100	1000	991	3020	1350	935	490	734
17	1270	1180	e1100	e800	e1000	1020	990	3200	1270	939	485	807
18	1280	1130	e1100	e900	e1000	1010	1020	2890	1190	933	463	809
19	1270	1110	e1000	e1000	e1000	1020	1060	2660	1180	884	446	784
20	1280	1150	e1100	e1100	e1000	1040	1140	2520	1160	830	441	745
21	1290	1160	e1200	e1100	e1100	1170	1200	2400	1100	769	438	715
22	1330	1170	e1200	e1100	1070	1200	1200	2260	1070	744	440	733
23	1340	1170	e1200	e1100	1020	1190	1150	2170	1080	719	429	749
24	1310	1170	e1100	e1100	1000	1190	1120	2220	1080	694	420	750
25	1330	e1200	e1100	e1100	979	1240	1090	2430	1030	653	403	723
26	1340	e1100	e1100	e1000	951	1300	1130	2640	1000	623	387	707
27	1350	e1200	e1100	e950	943	1310	1260	2790	999	596	377	701
28	1390	e1100	e1000	e850	944	1240	1430	2780	1020	571	373	693
29	1410	e1000	e1100	e750	---	1200	1670	2650	1020	550	371	696
30	1440	1180	e1100	e900	---	1190	1650	2480	1010	551	374	685
31	1460	---	e1100	e1000	---	1200	---	2260	---	583	382	---
TOTAL	38190	36720	34240	30800	28407	33960	34328	64150	43029	25063	14410	19123
MEAN	1232	1224	1105	994	1015	1095	1144	2069	1434	808	465	637
MAX	1460	1420	1240	1100	1100	1310	1670	3200	2110	977	640	809
MIN	1000	1000	950	750	800	906	990	1200	999	550	371	385
AC-FT	75750	72830	67920	61090	56350	67360	68090	127200	85350	49710	28580	37930

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2001, BY WATER YEAR (WY)

MEAN	1273	1304	1146	1080	1084	1129	1643	3942	5718	2728	1227	1080
MAX	1858	1967	1609	1667	1551	1702	3672	7951	11790	6515	2785	2017
(WY)	1983	1984	1984	1974	1984	1986	1943	1956	1974	1965	1965	1965
MIN	765	801	718	756	702	787	900	995	1434	590	445	402
(WY)	1938	1938	1933	1933	1933	1935	1937	1977	2001	1994	1992	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1913 - 2001	
ANNUAL TOTAL	576859		402420			
ANNUAL MEAN	1576		1103		1948	
HIGHEST ANNUAL MEAN					3163	1965
LOWEST ANNUAL MEAN					1024	1994
HIGHEST DAILY MEAN	6000	May 26	3200	May 17	17400	Jun 17 1974
LOWEST DAILY MEAN	634	Aug 28	371	Aug 29	328	Feb 4 1989
ANNUAL SEVEN-DAY MINIMUM	643	Aug 25	380	Aug 26	376	Sep 7 1994
ANNUAL RUNOFF (AC-FT)	1144000		798200		1411000	
10 PERCENT EXCEEDS	2920		1490		4140	
50 PERCENT EXCEEDS	1260		1080		1260	
90 PERCENT EXCEEDS	778		565		850	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-1984, 1992, 1995, April to September 1998, April to September 2001 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August to September, 1998; May to September, 2001 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 22.4 °C August 14, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 16.6 °C Aug. 10, 12-13, 16-19, 31, Sep. 1-5.

WATER-QUALITY DATA, MAY TO SEPTEMBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)
MAY										
09...	1112	1240	180	8.2	11.3	12.6	7.1	9.3	100	120
29...	1813	2570	136	8.7	20.8	16.8	5.7	9.3	111	S42
JUN										
13...	1508	1650	181	8.6	17.4	12.5	5.5	10.3	112	58
JUL										
16...	1830	931	249	8.5	21.2	19.4	9.2	8.7	110	180
AUG										
08...	1650	446	282	8.6	31.4	24.4	4.1	9.3	129	S37
SEP										
19...	1700	772	284	8.4	21.4	16.3	8.1	8.6	101	52

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)	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)
SEP													
19...	128	36.5	8.90	13.9	18.8	2.22	150	2	130	19.7	4.3	.5	16.6

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAY							
09...	<.002	.26	.010	.009	.038	13	46
29...	.003	.26	.011	.009	.042	18	131
JUN							
13...	.010	.20	.015	.010	.030	10	48
JUL							
16...	.005	.32	.019	.009	.040	42	101
AUG							
08...	.007	.50	.010	.009	.025	2	2.7
SEP							
19...	.006	.26	<.005	.011	.032	11	22

< Less than
E Estimated value
S Most probable value

SALMON RIVER BASIN

13302500 SALMON RIVER AT SALMON, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, MAY TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	10.1	9.8	9.9
10	---	---	---	---	---	---	---	---	---	10.3	9.9	10.0
11	---	---	---	---	---	---	---	---	---	10.3	10.1	10.2
12	---	---	---	---	---	---	---	---	---	10.4	10.3	10.3
13	---	---	---	---	---	---	---	---	---	10.7	10.4	10.5
14	---	---	---	---	---	---	---	---	---	10.9	10.6	10.8
15	---	---	---	---	---	---	---	---	---	10.9	10.7	10.8
16	---	---	---	---	---	---	---	---	---	10.9	10.7	10.8
17	---	---	---	---	---	---	---	---	---	10.9	10.7	10.8
18	---	---	---	---	---	---	---	---	---	11.0	10.7	10.8
19	---	---	---	---	---	---	---	---	---	11.0	10.9	10.9
20	---	---	---	---	---	---	---	---	---	11.0	10.9	10.9
21	---	---	---	---	---	---	---	---	---	10.9	10.6	10.8
22	---	---	---	---	---	---	---	---	---	11.0	10.7	10.8
23	---	---	---	---	---	---	---	---	---	11.3	10.9	11.1
24	---	---	---	---	---	---	---	---	---	11.3	11.0	11.2
25	---	---	---	---	---	---	---	---	---	11.5	11.2	11.4
26	---	---	---	---	---	---	---	---	---	11.8	11.5	11.6
27	---	---	---	---	---	---	---	---	---	11.8	11.6	11.7
28	---	---	---	---	---	---	---	---	---	12.0	11.6	11.7
29	---	---	---	---	---	---	---	---	---	12.1	11.6	11.9
30	---	---	---	---	---	---	---	---	---	12.1	11.6	11.9
31	---	---	---	---	---	---	---	---	---	12.3	11.8	12.1
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.4	12.0	12.2	15.1	14.6	14.8	16.0	15.9	16.0	16.6	16.5	16.5
2	12.4	12.1	12.3	15.2	14.9	15.1	16.0	15.9	15.9	16.6	16.5	16.6
3	12.3	11.8	12.0	15.4	15.1	15.2	16.0	15.9	15.9	16.6	16.5	16.5
4	11.8	11.5	11.6	15.5	15.4	15.4	15.9	15.7	15.9	16.6	16.5	16.5
5	11.6	11.5	11.6	15.7	15.5	15.6	16.0	15.7	15.9	16.6	16.5	16.5
6	12.0	11.3	11.6	15.9	15.7	15.8	16.0	15.9	16.0	16.5	16.3	16.4
7	12.1	11.5	11.8	15.9	15.7	15.9	16.2	16.0	16.1	16.3	15.9	16.1
8	12.4	11.6	12.1	16.0	15.7	15.9	16.3	16.2	16.2	15.9	15.5	15.8
9	12.7	12.1	12.3	16.0	15.9	15.9	16.5	16.2	16.3	15.7	15.4	15.5
10	12.7	12.1	12.4	16.0	15.9	15.9	16.6	16.3	16.4	15.5	15.2	15.4
11	12.6	12.3	12.4	16.2	15.9	16.0	16.5	16.5	16.5	15.4	15.2	15.3
12	12.4	12.1	12.3	16.2	15.9	16.0	16.6	16.5	16.5	15.4	15.1	15.2
13	12.1	11.8	12.0	16.0	15.9	15.9	16.6	16.5	16.5	15.4	15.2	15.3
14	12.3	11.8	12.1	16.0	15.9	15.9	16.5	16.5	16.5	15.4	15.4	15.4
15	12.6	12.0	12.3	16.0	15.9	15.9	16.5	16.5	16.5	15.5	15.4	15.5
16	12.7	12.1	12.4	15.9	15.9	15.9	16.6	16.5	16.5	15.7	15.5	15.6
17	12.7	12.3	12.5	15.9	15.5	15.7	16.6	16.5	16.6	15.7	15.5	15.6
18	12.7	12.3	12.5	15.7	15.5	15.6	16.6	16.5	16.5	15.7	15.5	15.6
19	12.9	12.4	12.7	15.7	15.4	15.6	16.6	16.5	16.5	15.7	15.5	15.6
20	13.2	12.7	12.9	15.5	15.4	15.5	16.5	16.5	16.5	15.5	15.4	15.5
21	13.3	12.9	13.1	15.5	15.4	15.4	16.5	16.3	16.4	15.5	15.2	15.4
22	13.7	13.3	13.5	15.5	15.4	15.4	16.5	16.3	16.4	15.4	15.1	15.3
23	13.8	13.5	13.7	15.7	15.4	15.5	16.5	16.3	16.3	15.2	15.1	15.2
24	14.1	13.7	13.9	15.9	15.5	15.6	16.3	16.2	16.2	15.2	15.1	15.1
25	14.3	13.8	14.0	15.9	15.7	15.8	16.2	16.2	16.2	15.2	14.9	15.0
26	14.4	14.1	14.2	16.0	15.7	15.9	16.2	16.2	16.2	15.1	14.7	14.9
27	14.4	14.1	14.3	16.2	15.9	16.0	16.3	16.2	16.2	14.9	14.6	14.8
28	14.6	14.3	14.4	16.2	16.0	16.2	16.3	16.2	16.2	14.9	14.7	14.8
29	14.7	14.3	14.5	16.3	16.0	16.2	16.5	16.3	16.3	14.9	14.6	14.7
30	14.7	14.6	14.6	16.3	16.0	16.1	16.5	16.3	16.5	14.7	14.6	14.6
31	---	---	---	16.0	15.9	16.0	16.6	16.5	16.5	---	---	---
MONTH	14.7	11.3	12.8	16.3	14.6	15.7	16.6	15.7	16.3	16.6	14.6	15.5

SALMON RIVER BASIN

13305000 LEMHI RIVER NEAR LEMHI, ID

LOCATION.--Lat 44°56'24", long 113°38'21"(revised), in NW¼NE¼ sec.32, T.19 N., R.24 E., Lemhi County, Hydrologic Unit 17060204, on right bank, 35 ft upstream from bridge on State Highway 28, 1.4 mi south of Tendoy, 1.8 mi upstream from Agency Creek, 6.2 mi north of Lemhi, and at mile 28.8.

DRAINAGE AREA.--895 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1938 to August 1939, April 1955 to September 1963, water years 1964-67 (annual maximum), August 1967 to current year.

REVISED RECORDS.--WSP 1397: 1939.

GAGE.--Water-stage recorder. Elevation of gage is 4,960 ft above sea level, from topographic map. Prior to Aug. 25, 1967, at site 1.5 mi upstream at different datum. November 1938 to August 1939, nonrecording gage; Apr. 29, 1955 to Sept. 30, 1963, nonrecording gage and supplemental crest-stage gage; Oct. 1, 1963 to Aug. 24, 1967, crest-stage gage only.

REMARKS.--Records fair. Station equipment includes telemetry. Diversions above station for irrigation of about 25,500 acres, of which about 200 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,430 ft^3/s June 21, 1984, gage height, 7.19 ft; minimum, 31 ft^3/s Aug. 6, 1988, gage height, 2.39 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 296 ft^3/s May 15, gage height, 4.14 ft; minimum daily, 68 ft^3/s July 29, 30, Aug. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	219	e210	e170	e160	e180	181	149	161	106	77	101
2	134	215	e190	e160	e160	e190	179	145	169	100	68	e100
3	137	219	e200	e170	e170	e180	175	141	185	96	72	e95
4	149	238	e190	e170	e160	e190	174	138	172	91	83	e90
5	150	249	e200	e170	e170	207	171	135	161	92	84	e110
6	156	243	e200	e170	e160	209	175	128	145	94	78	e90
7	172	233	e200	e160	e160	211	172	118	133	89	78	92
8	172	226	e190	e140	e150	211	172	110	127	90	e88	87
9	166	e220	e200	e160	e160	213	172	108	120	93	99	85
10	172	e210	e200	e170	e160	211	173	118	124	99	96	85
11	181	e200	e190	e160	e170	207	173	117	137	101	89	81
12	206	e190	e180	e170	e160	202	169	127	157	113	90	79
13	246	e180	e170	e180	e170	204	165	157	175	112	91	81
14	263	e190	e180	e170	e160	207	160	222	173	111	96	92
15	242	e190	e180	e170	e170	200	157	268	170	118	97	98
16	229	e190	e170	e170	e180	202	153	244	176	125	93	e95
17	219	e190	e170	e160	e190	201	145	196	170	124	90	96
18	214	e190	e160	e160	198	204	136	156	146	118	86	100
19	212	e200	e160	e190	198	213	135	153	123	103	87	103
20	207	e200	e150	e180	196	235	140	152	122	97	95	99
21	213	e200	e160	e170	195	231	157	140	123	103	96	93
22	215	e200	e160	e180	195	222	156	133	130	104	101	88
23	212	e200	e170	e170	195	221	147	145	139	100	105	91
24	209	e200	e180	e180	195	220	151	173	131	96	97	95
25	208	e210	e170	e180	e190	220	145	203	122	92	96	100
26	208	e210	e170	e180	e190	213	148	219	116	84	98	100
27	211	e210	e160	e160	e180	197	151	221	113	80	96	100
28	210	e200	e160	e140	e170	190	148	216	129	72	98	99
29	213	e200	e170	e130	---	190	144	199	117	68	101	100
30	221	e210	e170	e140	---	180	140	175	112	68	100	100
31	221	---	e170	e150	---	175	---	158	---	79	97	---
TOTAL	6100	6232	5530	5130	4912	6336	4764	5064	4278	3018	2822	2825
MEAN	197	208	178	165	175	204	159	163	143	97.4	91.0	94.2
MAX	263	249	210	190	198	235	181	268	185	125	105	110
MIN	132	180	150	130	150	175	135	108	112	68	68	79
AC-FT	12100	12360	10970	10180	9740	12570	9450	10040	8490	5990	5600	5600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	254	276	234	229	236	259	258	306	541	293	148	163
MAX	405	379	339	319	322	357	473	816	1302	909	349	274
(WY)	1983	1984	1976	1974	1976	1998	1969	1984	1984	1975	1984	1976
MIN	125	177	171	165	175	173	130	99.5	129	63.1	57.8	68.4
(WY)	1995	1995	1995	2001	1989	1995	1994	1989	1992	1988	1988	1992

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	67908		57011			
ANNUAL MEAN	186		156		268	
HIGHEST ANNUAL MEAN					479	1984
LOWEST ANNUAL MEAN					155	1989
HIGHEST DAILY MEAN	353	May 29	268	May 15	2100	Jun 21 1984
LOWEST DAILY MEAN	70	Sep 16	68	Jul 29	34	May 5 1989
ANNUAL SEVEN-DAY MINIMUM	76	Sep 13	72	Jul 28	41	Aug 5 1988
ANNUAL RUNOFF (AC-FT)	134700		113100		193900	
10 PERCENT EXCEEDS	259		212		390	
50 PERCENT EXCEEDS	196		160		235	
90 PERCENT EXCEEDS	105		92		124	

e Estimated

SALMON RIVER BASIN

13305000 LEMHI RIVER NEAR LEMHI, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974-1982, 1992, 1995, April to September 1998, April to September 2001 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: March to September 1998, May to September 2001 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE:Maximum, 19.3 °C Aug. 6, 8, 2001.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 19.3 °C Aug. 6, 8.

WATER-QUALITY DATA, MAY TO SEPTEMBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)
MAY										
08...	1144	117	420	8.3	12.2	7.2	2.9	11.9	117	S24
29...	1306	204	247	8.5	18.0	9.9	4.0	11.1	117	86
JUN										
13...	1252	172	342	8.4	11.0	6.4	7.9	11.4	111	270
JUL										
17...	0850	127	448	8.2	13.4	11.0	1.8	10.0	109	140
AUG										
08...	1140	102	489	8.5	28.5	15.4	4.7	10.6	126	240
SEP										
19...	1244	107	506	8.4	14.0	10.5	3.0	10.0	107	76

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)	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)
SEP													
19...	226	56.9	20.5	20.4	16.1	3.86	270	9	236	43.6	10.9	.3	24.5

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAY							
08...	.006	.38	.005	.018	.052	7	2.2
29...	.004	.43	.018	.034	.067	13	7.2
JUN							
13...	.012	.25	.029	.033	.058	9	4.2
JUL							
17...	.007	.32	.071	.037	.060	9	3.1
AUG							
08...	.008	.29	.032	.030	.048	12	3.3
SEP							
19...	.007	.28	.029	.038	.059	8	2.3

S Most probable value

SALMON RIVER BASIN

13305000 LEMHI RIVER NEAR LEMHI, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, MAY TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	13.0	7.7	10.4
10	---	---	---	---	---	---	---	---	---	13.9	6.5	10.1
11	---	---	---	---	---	---	---	---	---	14.4	6.5	10.5
12	---	---	---	---	---	---	---	---	---	14.1	7.4	10.8
13	---	---	---	---	---	---	---	---	---	13.0	8.3	10.8
14	---	---	---	---	---	---	---	---	---	12.1	7.1	9.5
15	---	---	---	---	---	---	---	---	---	9.6	7.1	8.4
16	---	---	---	---	---	---	---	---	---	11.1	6.8	8.6
17	---	---	---	---	---	---	---	---	---	12.1	5.1	8.5
18	---	---	---	---	---	---	---	---	---	13.2	7.4	10.0
19	---	---	---	---	---	---	---	---	---	12.8	6.3	9.6
20	---	---	---	---	---	---	---	---	---	11.4	7.1	9.4
21	---	---	---	---	---	---	---	---	---	12.5	4.9	8.7
22	---	---	---	---	---	---	---	---	---	14.4	6.8	10.5
23	---	---	---	---	---	---	---	---	---	15.2	7.6	11.3
24	---	---	---	---	---	---	---	---	---	14.2	7.7	11.1
25	---	---	---	---	---	---	---	---	---	13.3	8.2	10.7
26	---	---	---	---	---	---	---	---	---	12.8	7.7	10.2
27	---	---	---	---	---	---	---	---	---	13.2	8.3	10.5
28	---	---	---	---	---	---	---	---	---	12.8	7.9	10.3
29	---	---	---	---	---	---	---	---	---	13.2	7.7	10.3
30	---	---	---	---	---	---	---	---	---	12.8	6.3	9.6
31	---	---	---	---	---	---	---	---	---	14.9	7.9	11.2
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.4	8.0	11.4	18.9	11.1	14.9	17.4	10.2	13.8	17.1	11.1	14.1
2	13.6	9.4	11.2	18.9	11.3	15.1	18.4	11.1	14.7	17.4	11.4	14.4
3	10.7	7.3	8.1	19.0	11.8	15.4	15.8	11.8	14.2	17.6	11.1	14.3
4	9.1	6.6	7.8	16.1	12.4	14.0	17.4	12.8	15.1	15.7	11.3	13.7
5	9.9	6.3	8.2	16.0	12.8	14.3	18.9	11.9	15.3	15.7	12.2	13.8
6	13.9	7.7	10.4	18.5	12.1	15.0	19.3	11.9	15.7	13.3	9.3	10.1
7	14.5	8.2	11.2	15.8	12.1	14.1	18.7	12.5	15.7	11.1	8.3	9.5
8	15.2	8.7	11.9	17.7	12.4	14.6	19.3	13.2	16.1	13.2	7.7	10.3
9	16.4	9.7	12.9	16.0	12.5	14.3	18.2	13.0	15.8	14.5	8.5	11.4
10	16.0	9.0	12.5	17.1	12.1	14.2	18.0	12.4	15.3	15.3	9.4	12.3
11	14.2	9.9	11.8	17.2	12.1	14.6	17.4	12.1	14.6	15.7	10.5	12.9
12	11.1	7.4	9.1	16.9	12.2	14.7	18.4	11.6	14.9	14.2	10.8	12.5
13	9.3	5.4	7.3	16.6	11.8	14.2	18.5	13.3	15.8	16.4	11.6	13.9
14	12.5	6.2	9.2	17.1	11.4	14.2	18.0	12.7	15.3	16.3	12.2	14.1
15	14.9	8.0	11.2	15.7	12.1	13.7	17.1	12.4	14.9	15.8	10.8	13.3
16	15.8	8.0	11.8	14.7	11.4	13.0	18.0	11.8	14.9	14.4	12.1	13.1
17	15.3	9.3	12.3	14.2	10.8	12.5	18.2	11.9	15.2	14.7	10.7	12.7
18	14.9	9.0	11.9	16.0	10.7	13.1	18.7	12.7	15.7	14.9	10.2	12.5
19	15.0	8.3	11.7	16.9	11.3	14.0	17.9	11.8	15.0	14.5	10.2	12.3
20	16.6	9.0	12.7	16.4	11.8	14.1	16.9	11.3	14.3	13.9	9.0	11.4
21	17.6	9.7	13.5	16.6	11.8	14.1	17.2	11.1	14.1	13.9	9.1	11.5
22	17.2	10.5	14.0	18.0	11.3	14.4	17.6	12.1	14.8	14.2	9.1	11.7
23	14.9	10.7	13.0	18.5	11.9	15.0	17.4	12.2	14.8	14.5	9.3	11.8
24	17.2	10.0	13.4	18.9	11.8	15.2	17.1	11.1	14.2	15.2	10.0	12.5
25	16.0	10.5	13.1	18.9	12.1	15.4	17.7	11.6	14.7	14.1	10.0	12.2
26	14.5	10.4	12.6	18.2	11.9	15.1	17.7	11.3	14.7	13.9	10.2	12.1
27	15.3	10.7	13.2	18.5	11.8	15.1	17.9	12.1	14.9	14.2	9.3	11.7
28	17.6	11.4	14.2	18.4	11.6	14.8	17.7	12.1	14.9	13.5	10.8	12.2
29	17.1	10.4	13.8	17.6	10.8	14.1	17.6	11.9	14.7	13.9	10.2	12.0
30	17.6	11.3	14.3	14.5	12.2	12.9	17.1	11.4	14.3	13.3	8.5	10.9
31	---	---	---	16.4	11.0	13.4	16.1	12.5	14.5	---	---	---
MONTH	17.6	5.4	11.7	19.0	10.7	14.3	19.3	10.2	14.9	17.6	7.7	12.4

COLLECTION METHODS.--Electrofishing; backpack (11A).

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.

BIOLOGICAL DATA, AUGUST 2001
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
	Aug. 1								
Cottidae (Sculpins)									
Cottus bairdi									
(Mottled sculpin)		1	6	122	32	Native	Invertivore	Cold	1-AA
Cottus confusus									
(Shorthead sculpin)		5	29	52-95	3-12	NATIVE	INVERTIVORE	COLD	5-AA
Salmonidae (Trouts)									
Prosopium williamsoni									
(Mountain whitefish)		10	59	82-365	5-497	NATIVE	INVERTIVORE	COLD	10-AA
Salvinus confluentus									
(Bull trout)		1	6	230	108	NATIVE	INVERTIVORE	COLD	1-AA

TOTAL NUMBER OF TAXA 4
TOTAL INDIVIDUALS 17

SALMON RIVER BASIN

13305310 LEMHI RIVER BELOW L5 DIVERSION NEAR SALMON, ID

LOCATION.--Lat 45°07'58", long 113°47'56"(revised), in NW¼SE¼ sec.24, T.21 N., R.22 E., Lemhi County, Hydrologic Unit 17060204, on right bank 0.25 mi below Highway 28 crossing, approximately 5.75 mi southeast of Salmon.

PERIOD OF RECORD.--November 1992 to December 1999, June 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4164.56 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. Many diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft³/s June 6, 1995, gage height, 5.19 ft; minimum daily, 0.75 ft³/s July 18, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 356 ft³/s Oct. 14; minimum, 13.0 ft³/s May 10, 11, gage height, 1.09 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	296	e270	e200	e200	e190	218	86	106	68	26	22
2	118	293	e250	e190	e200	e220	215	82	113	63	25	22
3	111	295	e260	e200	e210	e200	215	70	191	53	26	20
4	131	306	e250	e200	e190	e230	214	57	242	42	26	20
5	129	320	e270	e200	e230	237	207	47	211	49	24	19
6	129	313	e260	e190	e220	243	211	45	180	39	24	51
7	146	306	e260	e180	e210	250	206	41	164	27	24	29
8	151	297	e250	e170	e190	256	209	30	133	30	25	20
9	151	e280	e260	e190	e200	262	206	19	110	29	25	21
10	156	e270	e260	e210	e200	267	205	21	109	36	25	21
11	188	e260	e260	e200	e210	265	201	24	106	33	24	21
12	280	e260	e220	e220	e200	252	200	24	132	37	25	21
13	305	e240	e210	e230	e210	268	196	38	223	31	25	21
14	356	e250	e230	e220	e200	277	184	87	229	26	25	21
15	320	e260	e230	e220	e220	249	180	155	185	31	25	21
16	300	e260	e220	e210	e240	262	176	181	170	37	24	23
17	287	e260	e200	e210	e250	268	163	147	151	40	23	22
18	281	e250	e200	e200	236	275	160	113	130	45	21	22
19	279	e260	e190	e240	234	304	143	108	100	77	21	21
20	271	e260	e180	e220	233	317	143	111	80	49	21	20
21	274	e260	e190	e230	233	305	180	102	71	32	20	21
22	276	e260	e200	e240	232	283	179	77	70	33	20	21
23	273	e260	e210	e220	231	278	162	56	71	29	20	21
24	271	e260	e220	e240	231	279	172	49	69	26	20	21
25	276	e270	e210	e240	e220	289	147	81	53	26	20	20
26	289	273	e210	e240	e220	286	121	120	54	26	20	25
27	296	280	e200	e220	e210	252	102	157	55	25	20	28
28	298	e270	e190	e200	e200	232	85	196	74	26	20	27
29	303	e270	e200	e160	---	222	67	170	62	25	20	30
30	312	282	e200	e170	---	209	64	146	59	26	20	29
31	305	---	e200	e190	---	203	---	118	---	28	20	---
TOTAL	7384	8221	6960	6450	6060	7930	5131	2758	3703	1144	704	701
MEAN	238	274	225	208	216	256	171	89.0	123	36.9	22.7	23.4
MAX	356	320	270	240	250	317	218	196	242	77	26	51
MIN	111	240	180	160	190	190	64	19	53	25	20	19
AC-FT	14650	16310	13810	12790	12020	15730	10180	5470	7340	2270	1400	1390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2001, BY WATER YEAR (WY)

MEAN	264	329	270	264	276	324	266	308	742	297	70.6	77.9
MAX	359	403	334	309	358	429	441	597	1505	832	164	180
(WY)	1996	1999	1996	1999	1996	1997	1998	1997	1995	1995	1997	1998
MIN	111	228	212	202	216	234	162	89.0	123	4.21	1.51	2.81
(WY)	1995	1995	1995	1995	2001	1995	1995	2001	2001	1994	1994	1994

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1993 - 2001	
ANNUAL TOTAL	57146			
ANNUAL MEAN	157		307	
HIGHEST ANNUAL MEAN			421	1998
LOWEST ANNUAL MEAN			157	2001
HIGHEST DAILY MEAN	356	Oct 14	2610	Jun 6 1995
LOWEST DAILY MEAN	19	May 9	.75	Jul 18 1994
ANNUAL SEVEN-DAY MINIMUM	20	Aug 21	1.0	Aug 9 1994
ANNUAL RUNOFF (AC-FT)	113300		222500	
10 PERCENT EXCEEDS	275		502	
50 PERCENT EXCEEDS	190		253	
90 PERCENT EXCEEDS	22		25	

e Estimated

SALMON RIVER BASIN

13306385 NAPIAS CREEK BELOW ARNETT CREEK NEAR LEESBURG, ID

LOCATION.--Lat 45°12'07", long 114°08'19"(revised), in SW¼NW¼SE¼ sec.29, T.22 N., R.20 E., Lemhi County, Hydrologic Unit 17060203, 20 ft below Arnett Creek, 1.6 mi southwest of Leesburg, and 12 mi northwest of Salmon.

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

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. May 1989 to Oct. 1991, gage 200 ft upstream (13306375 "Napias Creek above Arnett Creek near Leesburg"). Records are not comparable, due to inflow from Arnett Creek drainage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010 ft³/s June 8, 1996, gage height, 7.54 ft; minimum daily, 4.5 ft³/s Jan. 3, 4, 1995.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 13	1915	*160	*6.35	No other peak greater than base discharge.			

Minimum daily, 5.0 ft³/s Jan. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	9.1	e8.0	e7.0	e6.0	e7.0	10	58	46	22	13	8.1
2	12	9.6	e7.5	e7.0	e6.5	e7.0	9.6	46	44	21	12	8.0
3	9.1	11	e7.5	e7.0	e6.5	e7.0	11	41	45	20	12	7.9
4	8.5	10	e7.5	e7.0	e6.5	e6.5	9.5	45	46	20	12	7.9
5	8.2	10	e8.0	e7.0	e7.0	e7.0	12	60	47	19	11	8.0
6	8.0	11	e7.5	e7.0	e7.0	e7.0	10	65	62	20	11	13
7	7.9	10	e7.5	e6.5	e6.5	e6.5	9.2	68	61	19	10	12
8	8.0	e9.5	e7.0	e6.5	e6.5	e7.0	9.4	86	60	18	10	11
9	8.0	e8.5	e7.5	e6.5	e6.5	e7.0	9.1	103	54	18	9.8	11
10	8.4	e8.0	e7.5	e7.0	e7.0	7.0	9.9	105	48	18	9.7	11
11	9.2	e8.5	e7.5	e7.0	e7.0	e7.0	8.8	106	46	18	9.8	10
12	10	e8.5	e7.5	e6.5	e7.0	7.1	10	116	49	18	9.7	9.3
13	11	e8.0	e7.5	e7.0	e7.0	7.1	9.4	129	49	18	9.5	9.2
14	11	e8.5	e7.5	e6.5	e6.5	e7.0	8.7	120	51	18	9.4	9.2
15	11	e8.5	e8.0	e6.5	e7.0	e6.5	9.8	112	50	19	9.0	8.9
16	10	e8.0	e7.5	e6.0	e7.0	e7.0	10	101	45	20	8.9	9.4
17	11	e8.0	e8.0	e5.5	e7.0	e7.0	12	82	43	19	8.7	9.7
18	11	e7.5	e7.5	e5.5	e6.5	7.2	15	81	40	17	8.6	9.1
19	11	e7.5	e7.5	e6.0	e6.5	7.4	16	80	39	16	8.5	8.7
20	11	e7.5	e7.0	e6.0	e7.0	8.0	14	74	36	16	8.5	8.6
21	12	e8.0	e7.5	e6.0	e7.0	8.8	13	66	34	16	8.5	8.5
22	10	e8.0	e7.5	e6.5	e7.0	10	13	67	32	15	8.4	8.4
23	11	e8.0	e7.5	e6.5	e7.0	10	13	71	30	14	8.4	8.3
24	10	e8.0	e8.0	e6.5	e7.0	11	17	74	29	13	8.3	8.3
25	9.7	e8.0	e7.5	e6.5	e6.5	11	29	76	27	13	8.3	8.2
26	9.5	e8.0	e7.0	e6.0	e6.5	10	44	73	26	12	8.2	8.2
27	10	e8.5	e6.5	e6.0	e7.0	11	60	72	27	13	8.1	8.2
28	9.7	e8.0	e6.0	e6.0	e7.0	9.5	74	64	30	12	8.0	8.2
29	9.9	e8.0	e6.5	e5.5	---	9.4	66	57	25	12	8.0	8.2
30	9.7	e8.0	e6.5	e5.0	---	9.6	58	51	23	13	8.0	8.1
31	9.5	---	e7.0	e5.5	---	10	---	48	---	16	8.1	---
TOTAL	317.3	257.7	228.5	197.0	189.5	250.6	600.4	2397	1244	523	291.4	272.6
MEAN	10.2	8.59	7.37	6.35	6.77	8.08	20.0	77.3	41.5	16.9	9.40	9.09
MAX	22	11	8.0	7.0	7.0	11	74	129	62	22	13	13
MIN	7.9	7.5	6.0	5.0	6.0	6.5	8.7	41	23	12	8.0	7.9
AC-FT	629	511	453	391	376	497	1190	4750	2470	1040	578	541

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2001, BY WATER YEAR (WY)

MEAN	9.32	8.79	8.20	7.67	7.57	8.91	21.0	96.7	98.3	27.0	12.4	9.68
MAX	11.4	10.6	9.88	9.95	8.94	10.7	30.2	226	216	46.7	19.2	12.9
(WY)	1998	1997	1997	1997	1999	1999	1994	1997	1996	1998	1993	1998
MIN	6.66	6.82	6.31	5.94	6.14	7.11	13.2	48.3	22.5	12.6	8.17	7.28
(WY)	1995	1995	1995	1995	1995	1995	1995	1992	1992	2000	1992	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1991 - 2001	
ANNUAL TOTAL	6637.6		6769.0			
ANNUAL MEAN	18.1		18.5		26.3	
HIGHEST ANNUAL MEAN					46.7	1997
LOWEST ANNUAL MEAN					14.3	1992
HIGHEST DAILY MEAN	110	May 25	129	May 13	585	Jun 9 1996
LOWEST DAILY MEAN	5.5	Jan 30	5.0	Jan 30	4.5	Jan 3 1995
ANNUAL SEVEN-DAY MINIMUM	6.5	Jan 26	5.7	Jan 26	4.9	Dec 31 1994
ANNUAL RUNOFF (AC-FT)	13170		13430		19090	
10 PERCENT EXCEEDS	48		50		64	
50 PERCENT EXCEEDS	8.8		9.2		9.9	
90 PERCENT EXCEEDS	7.5		6.5		7.0	

e Estimated

SALMON RIVER BASIN

13309220 MIDDLE FORK SALMON RIVER AT MIDDLE FORK LODGE NEAR YELLOW PINE, ID

LOCATION.--Lat 44°43'11", long 115°00'48", in NW¼SW¼SW¼ sec.16, T.16 N., R.12 E., Valley County, Hydrologic Unit 17060205, Boise National Forest, on left bank at Middle Fork Lodge, 300 ft upstream from Middle Fork Lodge bridge, 0.4 mi upstream from Thomas Creek, 1.8 mi downstream from Marble Creek, 29 mi southeast of Yellow Pine, and at mile 61.0.

DRAINAGE AREA.--1,040 mi^2, approximately.

PERIOD OF RECORD.--April 1973 to September 1981, March 1999 to current year.

REVISED RECORDS.--WDR-ID-00-2: 1999.

GAGE.--Water-stage recorder. Elevation of gage is,4,380 ft above sea level, from topographic map. Prior to March 1999, gage was at site 600 ft downstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,900 ft^3/s June 16, 1974, gage height, 10.80 ft, datum then in use; minimum, 190 ft^3/s Nov. 21, 1979, gage height, 1.32 ft, datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 16	0900	*3,750	*4.30	No peaks greater than base discharge.			

Minimum daily, 200 ft^3/s Jan 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	523	524	e440	e340	e380	345	556	1620	1500	660	588	300
2	e550	489	359	e300	e380	422	550	1390	1430	633	499	296
3	e500	e440	e400	e340	e400	371	493	1190	1410	612	460	294
4	e480	e460	e440	e400	e400	362	482	1190	1440	596	443	292
5	e460	e460	427	e440	e380	375	458	1350	1400	587	428	298
6	e460	e440	397	e380	e380	344	474	1480	1410	583	413	447
7	e460	e380	412	e320	e340	344	475	1450	1340	566	402	466
8	e460	e420	434	e300	e300	374	473	1590	1240	568	395	397
9	e460	e460	480	e400	e340	428	428	1750	1170	601	384	368
10	e460	e440	434	e500	e400	405	410	1800	1120	664	381	353
11	504	e420	387	e440	e380	392	440	1830	1090	632	377	341
12	550	406	321	e420	e360	379	436	1960	1200	620	376	333
13	598	e340	429	e400	e340	380	423	2290	1200	570	385	340
14	579	421	528	e360	e320	386	409	2470	1110	545	387	467
15	572	432	487	e340	e360	355	410	3140	1040	534	376	418
16	e500	407	360	e280	459	376	426	3600	976	558	368	537
17	e500	e340	454	e200	418	362	480	3050	933	559	357	442
18	e500	e340	409	e300	403	361	598	2600	901	531	343	420
19	e500	e360	e340	e420	397	416	717	2420	871	514	333	386
20	e500	403	e420	e360	399	486	727	2270	845	508	331	364
21	589	412	e440	e320	399	498	716	2110	818	495	325	354
22	611	424	e460	e380	402	518	673	2030	791	476	325	345
23	e500	377	e460	e360	375	560	637	2050	768	464	323	343
24	e500	490	e460	e360	365	599	640	2140	745	456	319	338
25	e500	451	e400	e380	379	646	784	2240	722	443	318	334
26	e500	e480	e360	e380	357	654	1100	2250	718	432	314	342
27	e500	e460	e340	e360	360	572	1470	2220	709	422	309	343
28	e500	391	e400	e300	363	548	1780	2070	805	412	303	335
29	571	e340	e360	e240	---	541	1590	1900	756	404	302	331
30	584	502	e400	e400	---	542	1400	1720	691	462	302	326
31	543	---	e360	e440	---	538	---	1590	---	687	302	---
TOTAL	16014	12709	12798	11160	10536	13879	20655	62760	31149	16794	11468	10950
MEAN	517	424	413	360	376	448	688	2025	1038	542	370	365
MAX	611	524	528	500	459	654	1780	3600	1500	687	588	537
MIN	460	340	321	200	300	344	409	1190	691	404	302	292
AC-FT	31760	25210	25380	22140	20900	27530	40970	124500	61780	33310	22750	21720
CFSM	.50	.41	.40	.35	.36	.43	.66	1.95	1.00	.52	.36	.35
IN.	.57	.45	.46	.40	.38	.50	.74	2.24	1.11	.60	.41	.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	604	621	541	530	492	580	1321	3986	4817	1817	796	621
MAX	835	1145	717	1075	719	855	2061	6399	13130	4455	1439	859
(WY)	1976	1974	1976	1974	1974	1974	2000	1976	1974	1974	1974	1974
MIN	427	408	413	360	376	407	584	957	1038	493	354	365
(WY)	1978	1980	2001	2001	2001	1980	1979	1977	2001	1977	1977	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1973 - 2001	
ANNUAL TOTAL	423148		230872			
ANNUAL MEAN	1156		633		1395	
HIGHEST ANNUAL MEAN					2697	1974
LOWEST ANNUAL MEAN					581	1977
HIGHEST DAILY MEAN	6000	May 23	3600	May 16	20700	Jun 16 1974
LOWEST DAILY MEAN	320	Jan 29	200	Jan 17	200	Jan 17 2001
ANNUAL SEVEN-DAY MINIMUM	374	Dec 25	298	Aug 30	260	Sep 9 1977
ANNUAL RUNOFF (AC-FT)	839300		457900		1010000	
ANNUAL RUNOFF (CFSM)	1.11		.61		1.34	
ANNUAL RUNOFF (INCHES)	15.14		8.26		18.22	
10 PERCENT EXCEEDS	3320		1400		3890	
50 PERCENT EXCEEDS	550		440		650	
90 PERCENT EXCEEDS	418		339		410	

e Estimated

SALMON RIVER BASIN

13310199 MIDDLE FORK SALMON RIVER AT MOUTH NEAR SHOUP, ID

LOCATION.--Lat 45°17'38", long 114°35'43", in SE¼NE¼ sec.28, T.23 N., R.15 E., Lemhi County, Hydrologic Unit 17060206, on right bank, about 0.3 mi upstream from mouth.

DRAINAGE AREA.--2,830 mi^2, approximately.

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

REVISED RECORDS.--WDR-ID-99-2: 1994, 1995, 1996, 1997.

GAGE.--Water-stage recorder. Elevation of gage is 3,040 ft above sea level, from topographic map.

REMARKS.--Records are good to 2,000 ft^3/s, fair to 10,000 ft^3/s and poor above 10,000 ft^3/s. Estimated daily discharges are fair. Station equipment includes satellite telemetry. No regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 28,600 ft^3/s May 17, 1997; minimum daily, 400 ft^3/s Dec. 31, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,930 ft^3/s May 16, gage height, 37.14 ft; minimum daily, 500 ft^3/s Jan. 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1160	1110	e900	e750	e750	e700	1180	3280	3660	1570	1330	706
2	1310	1080	e750	e700	e750	e850	1190	3140	3520	1500	1150	695
3	1140	1020	e750	e750	e800	e800	1150	2600	3390	1460	1050	677
4	1060	999	e750	e800	e800	e750	1080	2370	3370	1420	1000	672
5	1030	1050	e900	e800	e800	e750	1060	2470	3200	1400	971	678
6	1010	1030	e850	e800	e750	e800	1030	2820	3080	1390	944	880
7	1000	974	e800	e700	e700	e800	1050	2950	3040	1350	915	1070
8	998	900	e850	e500	e650	e800	1060	3140	2920	1320	898	980
9	991	1010	e900	e700	e600	e850	1020	3730	2840	1320	876	896
10	988	992	e850	e1000	e800	e900	955	4180	2740	1390	861	855
11	1010	947	e800	e800	e800	900	944	4360	2640	1390	852	822
12	1110	905	e700	e800	e750	863	991	4710	2720	1380	860	796
13	1260	795	e650	e750	e750	841	955	5720	2810	1340	851	783
14	1290	e900	e900	e750	e700	862	935	6560	2590	1270	885	852
15	1230	e950	e950	e700	e750	837	912	7160	2420	1260	874	934
16	1180	e900	e800	e700	e850	819	930	7670	2280	1290	850	999
17	1150	e800	e850	e550	e800	825	985	6940	2190	1290	827	1150
18	1130	717	e900	e600	e750	819	1140	5950	2130	1230	800	994
19	1130	808	e750	e900	e800	843	1370	5540	2070	1190	770	933
20	1130	814	e850	e800	e800	973	1510	5300	2010	1160	759	880
21	1160	857	e900	e750	e800	1030	1500	4930	1960	1160	756	852
22	1270	885	e900	e800	e800	1060	1450	4720	1910	1110	752	829
23	1200	829	e900	e750	e800	1110	1370	4870	1870	1080	745	822
24	1130	e900	e900	e750	e800	1210	1370	5320	1820	1060	738	814
25	1110	e1000	e900	e750	e750	1310	1470	5800	1760	1030	737	803
26	1100	e950	e800	e750	e750	1420	1890	5950	1720	1010	733	797
27	1100	e1000	e750	e700	e750	1320	2600	5900	1680	981	724	807
28	1120	e900	e850	e600	e700	1220	3610	5540	1760	956	710	798
29	1130	757	e800	e550	---	1200	3710	4980	1740	934	702	791
30	1200	e900	e850	e800	---	1180	3160	4370	1640	954	702	784
31	1160	---	e800	e850	---	1170	---	3890	---	1250	704	---
TOTAL	34987	27679	25800	22900	21300	29812	43577	146860	73480	38445	26326	25349
MEAN	1129	923	832	739	761	962	1453	4737	2449	1240	849	845
MAX	1310	1110	950	1000	850	1420	3710	7670	3660	1570	1330	1150
MIN	988	717	650	500	600	700	912	2370	1640	934	702	672
AC-FT	69400	54900	51170	45420	42250	59130	86430	291300	145700	76260	52220	50280
CFSM	.39	.32	.29	.26	.26	.33	.50	1.64	.85	.43	.29	.29
IN.	.45	.36	.33	.29	.27	.38	.56	1.89	.95	.49	.34	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

MEAN	1179	1168	1122	1129	1086	1430	2991	8900	10040	3570	1547	1219
MAX	1420	1642	2211	2452	1632	2042	4308	16520	17400	5558	2068	1622
(WY)	1998	1997	1996	1997	1996	1997	1996	1997	1996	1995	1997	1997
MIN	762	728	666	739	759	949	1453	4737	2449	1240	845	683
(WY)	1995	1995	1995	2001	1994	1994	2001	2001	2001	2001	1994	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1994 - 2001	
ANNUAL TOTAL	816847		516515			
ANNUAL MEAN	2232		1415		2952	
HIGHEST ANNUAL MEAN					4648	1997
LOWEST ANNUAL MEAN					1415	2001
HIGHEST DAILY MEAN	11500	May 23	7670	May 16	28600	May 17 1997
LOWEST DAILY MEAN	650	Jan 30	500	Jan 8	400	Dec 31 1994
ANNUAL SEVEN-DAY MINIMUM	779	Jan 1	691	Aug 30	557	Dec 28 1994
ANNUAL RUNOFF (AC-FT)	1620000		1025000		2139000	
ANNUAL RUNOFF (CFSM)	.77		.49		1.02	
ANNUAL RUNOFF (INCHES)	10.51		6.65		13.88	
10 PERCENT EXCEEDS	6060		2990		7730	
50 PERCENT EXCEEDS	1120		950		1360	
90 PERCENT EXCEEDS	850		750		800	

e Estimated

SALMON RIVER BASIN

13310700 SOUTH FORK SALMON RIVER NEAR KRASSEL RANGER STATION, ID

LOCATION.--Lat 44°59'14", long 115°43'27", in NE¼SW¼NE¼ sec.16, T.19 N., R.6 E., Valley County, Hydrologic Unit 17060208, Payette National Forest, on right bank, 0.6 mi upstream from Fitsum Creek, 1.4 mi downstream from Krassel Ranger station, 2 mi upstream from mouth of East Fork of South Fork Salmon River, 20 mi east of McCall, and at mile 39.7.

DRAINAGE AREA.--330 mi^2.

PERIOD OF RECORD.--October 1966 to September 1982, April 1985 to September 1986, February 1989 to current year.

REVISED RECORDS.--WSP 1397: 1939.

GAGE.--Water-stage recorder. Elevation of gage is 3,750 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, 6,740 ft^3/s June 17, 1974, gage height, 10.00 ft; minimum, 38 ft^3/s Nov. 27, 1976, gage height, 1.11 ft, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 28, 1948, reached a discharge of 5,200 ft^3/s by slope-area measurement at site 2.3 mi upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	1000	*1,940	*5.44	No other peak greater than base discharge.			

Minimum daily, 70 ft^3/s Jan. 7, 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	156	e110	e100	e110	e100	217	658	549	196	153	73
2	155	145	e110	e90	e100	e120	221	556	517	187	125	72
3	129	136	e120	e100	e100	e110	189	492	508	179	115	72
4	121	142	e120	e100	e100	105	186	474	513	173	109	71
5	119	145	e110	e110	e100	109	172	508	479	168	107	73
6	118	131	e110	e100	e100	116	176	519	492	171	103	114
7	117	110	e110	e70	e95	119	180	511	459	164	100	124
8	117	125	e110	e95	e75	126	174	572	422	162	98	98
9	115	144	e120	e110	e100	e130	155	649	392	171	96	90
10	117	143	e110	e100	e100	e130	156	704	369	179	94	87
11	137	128	e95	e100	e95	129	163	748	354	161	94	85
12	159	120	e85	e100	e95	124	163	869	443	195	93	82
13	185	e120	e100	e100	e100	123	156	1100	419	186	91	85
14	171	e130	e110	e100	e100	125	150	1160	365	169	90	119
15	165	e130	e100	e95	e110	118	150	1730	336	160	88	117
16	153	e120	e90	e70	e110	122	156	1590	312	177	89	107
17	144	e110	e110	e100	106	118	177	1300	296	166	86	108
18	140	e110	e100	e100	105	116	214	1140	282	149	83	101
19	139	e110	e100	e100	105	142	247	1060	273	140	82	93
20	138	e110	e110	e110	106	211	246	986	262	137	80	87
21	207	e110	e110	e110	108	193	248	902	252	131	80	85
22	204	e110	e110	e110	110	186	243	882	243	126	80	84
23	161	e110	e110	e100	110	194	233	928	232	122	80	83
24	152	e120	e110	e100	108	216	238	995	225	120	80	82
25	151	e120	e100	e100	e100	245	289	1040	217	117	80	81
26	149	e120	e100	e100	e95	266	402	1010	214	113	79	85
27	155	e120	e110	e80	e90	231	555	944	210	111	78	87
28	159	e100	e95	e80	e80	216	705	863	252	107	75	84
29	184	e120	e110	e90	---	208	635	758	226	105	75	82
30	191	e130	e110	e100	---	203	558	656	206	116	75	82
31	166	---	e110	e110	---	199	---	590	---	172	74	---
TOTAL	4648	3725	3305	3030	2813	4850	7754	26894	10319	4730	2832	2693
MEAN	150	124	107	97.7	100	156	258	868	344	153	91.4	89.8
MAX	207	156	120	110	110	266	705	1730	549	196	153	124
MIN	115	100	85	70	75	100	150	474	206	105	74	71
AC-FT	9220	7390	6560	6010	5580	9620	15380	53340	20470	9380	5620	5340
CFSM	.45	.38	.32	.30	.30	.47	.78	2.63	1.04	.46	.28	.27
IN.	.52	.42	.37	.34	.32	.55	.87	3.03	1.16	.53	.32	.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2001, BY WATER YEAR (WY)

MEAN	151	198	215	228	222	298	661	1723	1803	552	191	150
MAX	275	557	763	860	629	754	1210	3208	4186	1307	313	216
(WY)	1976	1974	1996	1997	1996	1986	1997	1997	1974	1982	1974	1970
MIN	84.0	103	96.3	89.5	100	117	202	390	336	137	85.1	72.6
(WY)	1992	1993	1993	1993	2001	1977	1975	1977	1992	1977	1994	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1967 - 2001	
ANNUAL TOTAL	157949		77593			
ANNUAL MEAN	432		213		540	
HIGHEST ANNUAL MEAN					974	1974
LOWEST ANNUAL MEAN					180	1977
HIGHEST DAILY MEAN	2400	May 23	1730	May 15	6200	Jun 16 1974
LOWEST DAILY MEAN	85	Dec 12	70	Jan 7	58	Nov 28 1976
ANNUAL SEVEN-DAY MINIMUM	99	Dec 10	73	Aug 30	70	Sep 22 1994
ANNUAL RUNOFF (AC-FT)	313300		153900		391400	
ANNUAL RUNOFF (CFSM)	1.31		.64		1.64	
ANNUAL RUNOFF (INCHES)	17.81		8.75		22.24	
10 PERCENT EXCEEDS	1350		508		1530	
50 PERCENT EXCEEDS	166		120		212	
90 PERCENT EXCEEDS	110		85		113	

e Estimated

SALMON RIVER BASIN

13313000 JOHNSON CREEK AT YELLOW PINE, ID

LOCATION.--Lat 44°57'44", long 115°29'58", in NE¼ sec.29, T.19 N., R.8 E., Valley County, Boise National Forest, Hydrologic Unit 17060208, on right bank 700 ft upstream from mouth, and 0.2 mi southwest of Yellow Pine.

DRAINAGE AREA.--213 mi^2. Mean elevation, 7,170 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to current year.

REVISED RECORDS.--WDR ID-83-1: 1982(M).

GAGE.--Water-stage recorder. Datum of gage is 4,655.75 ft above sea level. Prior to July 19, 1977, at site 385 ft upstream at datum 1.95 ft higher.

REMARKS.--Records fair. Station equipment includes satellite telemetry. Small diversion from Johnson Creek to Deadwood River until September 20, 1988 (see REMARKS for sta 13236000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,230 ft^3/s June 17, 1974, gage height, 8.32 ft; minimum, 21 ft^3/s Nov. 30, 1954, Nov. 20, 1979, Nov. 18, 1988; minimum gage height, 0.66 ft, Nov. 30, 1954, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	0830	*1,550	*4.63	No peaks greater than base discharge.			

Minimum, 25 ft^3/s Feb. 28, gage height, 1.72 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	90	67	60	65	58	98	420	e440	114	90	38
2	97	78	65	56	63	60	96	345	e420	106	74	38
3	83	75	70	66	63	58	81	303	e400	100	67	37
4	77	84	68	66	62	57	86	326	e420	96	62	38
5	74	83	67	67	64	58	85	404	e380	93	58	39
6	73	67	64	61	61	58	92	428	405	95	55	62
7	72	63	65	45	59	59	88	423	375	89	53	65
8	71	74	66	59	49	61	85	509	331	87	52	55
9	71	79	67	71	62	65	75	567	296	87	51	50
10	72	76	65	67	63	63	76	589	274	87	50	48
11	81	75	57	63	59	63	87	629	261	83	49	47
12	94	66	53	65	58	62	81	735	348	81	49	43
13	102	63	64	64	58	61	79	876	338	76	53	44
14	100	72	69	63	54	63	74	882	299	76	52	61
15	99	72	64	62	61	56	78	1360	265	76	49	63
16	94	68	56	46	59	65	79	1210	239	87	49	70
17	91	61	67	50	59	61	89	941	221	86	47	62
18	90	60	62	65	59	60	108	827	209	78	47	53
19	89	65	63	69	58	72	125	777	197	76	46	51
20	87	66	65	65	59	82	125	711	181	74	45	49
21	121	67	68	67	59	80	120	642	170	70	43	47
22	115	67	70	67	59	80	111	641	159	67	40	46
23	93	63	70	62	58	89	111	677	150	64	42	46
24	95	71	70	62	57	96	116	717	140	63	40	46
25	92	68	66	64	57	108	164	725	133	61	41	46
26	90	71	60	61	55	112	256	695	130	59	39	47
27	97	71	67	49	54	93	366	640	128	57	40	47
28	100	60	59	50	52	105	487	581	170	55	39	45
29	106	69	67	56	---	99	420	513	140	53	39	44
30	102	74	68	64	---	97	374	e480	122	67	39	43
31	94	---	67	65	---	91	---	e460	---	116	39	---
TOTAL	2803	2118	2016	1897	1646	2292	4312	20033	7741	2479	1539	1470
MEAN	90.4	70.6	65.0	61.2	58.8	73.9	144	646	258	80.0	49.6	49.0
MAX	121	90	70	71	65	112	487	1360	440	116	90	70
MIN	71	60	53	45	49	56	74	303	122	53	39	37
AC-FT	5560	4200	4000	3760	3260	4550	8550	39740	15350	4920	3050	2920
CFSM	.43	.33	.31	.29	.28	.35	.68	3.06	1.22	.38	.24	.23
IN.	.49	.37	.36	.33	.29	.40	.76	3.53	1.36	.44	.27	.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2001, BY WATER YEAR (WY)

MEAN	96.8	101	94.8	88.5	84.8	96.6	312	1270	1387	378	121	89.0
MAX	350	269	340	270	231	245	1098	2342	3529	1034	230	140
(WY)	1963	1963	1996	1997	1963	1934	1934	1956	1974	1974	1974	1965
MIN	43.4	49.0	46.8	49.9	51.6	57.1	69.1	295	247	77.4	45.2	39.7
(WY)	1989	1930	1989	1937	1937	1937	1975	1977	1987	1931	1931	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1928 - 2001	
ANNUAL TOTAL	106192		50346			
ANNUAL MEAN	290		138		344	
HIGHEST ANNUAL MEAN					622	1974
LOWEST ANNUAL MEAN					123	1977
HIGHEST DAILY MEAN	1840	May 23	1360	May 15	5440	Jun 17 1974
LOWEST DAILY MEAN	53	Dec 12	37	Sep 3	28	Dec 15 1988
ANNUAL SEVEN-DAY MINIMUM	61	Dec 10	38	Aug 29	36	Sep 1 1931
ANNUAL RUNOFF (AC-FT)	210600		99860		249000	
ANNUAL RUNOFF (CFSM)	1.38		.65		1.63	
ANNUAL RUNOFF (INCHES)	18.72		8.88		22.14	
10 PERCENT EXCEEDS	1010		377		1080	
50 PERCENT EXCEEDS	86		69		105	
90 PERCENT EXCEEDS	67		49		61	

e Estimated

13313000 JOHNSON CREEK AT YELLOW PINE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-1981, 1992, 1995, April to September 1998, April to September 2001 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1998, April to September 2001 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 19.0 °C July 12, 2001.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 19.0 °C July 12.

WATER-QUALITY DATA, APRIL TO SEPTEMBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)
APR										
10...	1500	73	79	7.7	4.0	3.0	1.2	11.6	103	<1
MAY										
09...	1720	521	41	7.5	17.5	7.0	1.6	10.3	101	S1
JUN										
06...	1510	391	48	7.5	17.0	8.4	1.4	10.3	104	S1
JUL										
11...	1300	81	76	8.1	27.0	15.4	.8	8.8	105	10
AUG										
07...	1600	53	92	8.4	33.5	17.0	1.4	11.5	141	S3
SEP										
18...	1410	53	91	8.0	22.5	12.0	7.8	10.3	114	S2

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)	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)
SEP													
18...	42.7	13.5	2.19	2.9	12.5	.84	55	0	45	2.9	.6	.2	11.6

DATE	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR										
10...	--	--	--	.004	E.06	.009	<.007	.005	<1	--
MAY										
09...	--	--	--	<.002	.15	<.005	<.007	.009	3	4.2
JUN										
06...	--	--	--	.004	E.07	.005	<.007	.006	1	1.1
JUL										
11...	--	--	--	.008	.11	.007	<.007	.005	1	.22
AUG										
07...	--	--	--	.002	.14	.006	<.007	E.004	1	.14
SEP										
18...	61.9	.084	8.9	.004	.11	.011	<.007	.005	<1	--

E Estimated value
S Most probable value

SALMON RIVER BASIN

13313000 JOHNSON CREEK AT YELLOW PINE, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	4.8	2.6	3.7
2	---	---	---	---	---	---	---	---	---	5.2	2.1	3.4
3	---	---	---	---	---	---	---	---	---	7.6	1.4	4.2
4	---	---	---	---	---	---	---	---	---	9.0	3.2	5.9
5	---	---	---	---	---	---	---	---	---	8.7	5.2	6.8
6	---	---	---	---	---	---	---	---	---	7.4	2.7	5.2
7	---	---	---	---	---	---	---	---	---	8.7	3.2	5.8
8	---	---	---	---	---	---	---	---	---	7.7	4.3	6.3
9	---	---	---	---	---	---	---	---	---	7.4	4.3	6.0
10	---	---	---	---	---	---	---	---	---	8.3	3.5	5.9
11	---	---	---	---	---	---	4.1	1.9	3.2	8.8	3.8	6.4
12	---	---	---	---	---	---	5.4	2.7	3.9	9.4	4.6	7.0
13	---	---	---	---	---	---	4.3	2.9	3.7	8.0	5.5	6.7
14	---	---	---	---	---	---	6.3	2.1	4.2	6.9	4.8	6.0
15	---	---	---	---	---	---	6.5	2.9	4.8	6.0	4.3	5.1
16	---	---	---	---	---	---	7.7	3.2	5.6	7.3	4.9	5.9
17	---	---	---	---	---	---	8.5	4.6	6.7	7.3	3.8	5.7
18	---	---	---	---	---	---	8.2	4.8	6.8	8.7	5.9	7.2
19	---	---	---	---	---	---	7.3	4.3	5.8	8.2	5.1	6.9
20	---	---	---	---	---	---	5.5	3.8	4.8	8.7	5.5	7.1
21	---	---	---	---	---	---	6.9	3.4	5.1	9.3	4.3	6.8
22	---	---	---	---	---	---	6.3	2.7	4.9	11.0	5.9	8.4
23	---	---	---	---	---	---	7.1	4.3	5.9	11.4	6.9	9.3
24	---	---	---	---	---	---	9.7	4.3	7.0	12.2	7.9	10.0
25	---	---	---	---	---	---	10.4	4.6	7.8	11.8	8.5	10.3
26	---	---	---	---	---	---	9.6	4.4	7.0	11.9	8.7	10.4
27	---	---	---	---	---	---	7.9	4.1	6.3	12.5	9.0	10.5
28	---	---	---	---	---	---	6.6	3.5	4.7	12.5	8.8	10.7
29	---	---	---	---	---	---	5.4	2.7	4.0	12.2	8.5	10.4
30	---	---	---	---	---	---	5.2	3.8	4.4	11.9	6.9	9.5
31	---	---	---	---	---	---	---	---	---	13.5	8.0	10.8
MONTH	---	---	---	---	---	---	---	---	---	13.5	1.4	7.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.9	8.8	11.5	17.9	11.6	15.0	15.3	9.7	12.7	14.5	10.5	12.7
2	13.9	10.7	12.2	18.5	12.5	15.9	16.9	11.1	14.2	15.0	10.4	12.8
3	11.8	8.0	9.1	18.4	12.5	15.9	17.1	12.2	14.7	15.0	10.2	12.8
4	8.0	5.4	6.3	18.2	14.7	16.5	16.0	13.6	14.9	13.8	10.2	12.3
5	7.6	4.4	5.9	17.6	14.7	15.6	17.1	11.6	14.4	13.2	10.4	11.8
6	9.7	6.3	7.7	18.2	12.4	15.1	17.9	12.4	15.1	12.4	9.6	10.9
7	11.6	6.8	8.9	16.4	12.8	14.8	16.8	12.7	14.9	10.8	8.2	9.7
8	13.2	8.0	10.5	14.9	13.2	13.9	18.0	12.7	15.3	10.7	6.6	8.9
9	13.0	9.1	11.1	15.5	12.5	14.2	16.9	12.7	14.9	11.8	7.3	9.6
10	13.6	9.1	11.3	18.0	12.1	15.1	17.9	12.7	15.3	12.4	8.0	10.3
11	12.2	9.9	11.1	17.6	13.5	15.8	17.7	13.3	15.3	13.2	9.1	11.2
12	10.4	7.6	8.7	19.0	14.2	16.7	16.4	12.5	14.6	12.7	10.2	11.4
13	10.5	5.9	7.7	17.6	13.9	15.8	16.8	12.7	14.6	14.5	10.8	12.3
14	10.4	5.9	8.1	18.0	12.7	15.5	16.6	12.1	14.4	14.7	11.4	12.8
15	13.0	6.9	9.9	16.6	13.6	14.8	16.9	13.2	14.9	13.6	10.7	12.4
16	13.9	7.4	10.7	14.2	12.2	12.9	17.1	12.4	14.7	13.6	11.6	12.6
17	14.2	9.6	12.0	14.2	10.4	12.3	17.1	12.1	14.6	13.9	10.7	12.4
18	13.6	8.3	11.2	14.1	10.8	12.4	16.8	12.1	14.5	12.8	10.2	11.7
19	14.1	7.6	11.0	16.1	10.4	13.3	16.3	11.6	14.0	12.1	9.1	10.7
20	15.5	8.7	12.2	16.0	12.2	14.2	14.9	10.2	12.7	11.3	7.7	9.7
21	16.9	10.4	13.8	17.1	11.8	14.4	14.9	10.4	12.7	11.0	7.6	9.3
22	17.6	11.3	14.6	16.4	11.4	14.0	14.5	10.4	12.7	11.1	7.3	9.3
23	17.1	11.6	14.6	16.6	11.4	14.0	14.5	10.0	12.2	11.6	8.0	9.9
24	16.3	11.4	14.2	17.4	11.6	14.6	14.7	10.2	12.4	12.4	8.7	10.5
25	15.0	10.2	12.9	17.7	12.2	15.1	15.2	10.0	12.7	11.4	8.7	10.1
26	16.1	11.3	13.8	17.7	12.4	15.1	15.8	10.5	13.2	11.0	7.9	9.6
27	15.2	11.8	13.2	17.4	11.9	14.8	16.4	11.6	13.9	11.3	7.7	9.6
28	16.9	11.3	13.8	16.1	11.9	14.1	15.6	11.1	13.6	11.1	9.1	10.0
29	17.4	10.8	14.3	14.5	10.8	13.0	15.5	10.8	13.3	10.4	7.3	9.0
30	16.3	11.9	14.4	13.2	11.9	12.4	15.0	10.5	12.9	10.2	6.8	8.6
31	---	---	---	13.8	10.7	12.2	14.2	11.0	12.8	---	---	---
MONTH	17.6	4.4	11.2	19.0	10.4	14.5	18.0	9.7	14.0	15.0	6.6	10.8

COLLECTION METHODS.--Electrofishing.

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.

BIOLOGICAL DATA, JULY 2001
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
	July 24								
Cottidae (Sculpins)									
Cottus confusus (Shorthead sculpin)		133	68	35-237	1-121	NATIVE	INVERTIVORE	COLD	133-AA
Cottus rhotheus (Torrent sculpin)		4	2	90-108	8-17	NATIVE	INVERTIVORE	COLD	4-AA
Salmonidae (Trouts)									
Oncorhynchus mykiss sp. (Rainbow trout)		55	28	35-230	1-101	NATIVE	INVERTIVORE	COLD	55-AA
Prosopium williamsoni (Mountain whitefish)		3	2	255-320	133-361	NATIVE	INVERTIVORE	COLD	3-AA

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 3
TOTAL INDIVIDUALS 195

SALMON RIVER BASIN

13314300 SOUTH FORK SALMON RIVER AT MOUTH NEAR MACKAY BAR, ID

LOCATION.--Lat 45°22'00", long 116°30'43", in sec.8, T.23 N., R.8 E. (unsurveyed, from USGS topographic map), Idaho County, Hydrologic Unit 17060208, on left bank, 1.0 mi south of Mackay Bar landing strip, and at mile 0.8.

DRAINAGE AREA.--1,310 mi^2, approximately.

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

GAGE.--Water-stage recorder. Elevation of gage is 1,980 ft above sea level, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft^3/s May 17, 1997, gage height, 18.19 ft; minimum, 139 ft^3/s Jan. 18, 2001, gage height, 8.68 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	1230	*7,480	*14.10

No other peak greater than base discharge.

Minimum, 139 ft^3/s Jan. 18, gage height, 8.68 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	507	592	469	394	407	289	688	e2600	2640	956	699	287
2	749	559	414	322	395	424	715	e2200	2540	903	572	281
3	569	512	431	350	391	400	670	1870	2440	859	511	278
4	489	514	460	409	387	369	617	1820	2460	823	477	275
5	461	545	421	440	402	377	608	1980	2330	805	460	280
6	446	523	404	433	400	393	597	2110	2420	814	447	388
7	437	454	393	305	380	396	625	2090	2340	786	429	496
8	432	441	423	181	304	416	621	2350	2210	754	416	421
9	426	512	468	377	243	481	577	2720	2090	762	404	371
10	421	496	427	567	441	489	544	2920	1970	771	393	351
11	457	461	385	469	416	452	560	3060	1910	731	387	335
12	546	421	303	415	375	434	591	3510	2110	720	393	323
13	701	386	287	418	369	426	561	4490	2160	731	392	320
14	712	412	487	395	336	426	545	4770	1930	697	393	348
15	694	480	493	387	367	417	530	6480	1790	670	393	418
16	623	459	381	345	392	398	551	6320	1660	728	377	418
17	580	370	405	224	377	421	611	5120	1570	761	366	471
18	571	348	431	236	371	400	746	4420	1490	693	350	414
19	571	381	367	517	374	436	888	4240	1430	660	336	370
20	562	407	435	447	377	594	901	3970	1370	639	329	345
21	710	432	424	378	385	615	856	3660	1310	613	325	329
22	841	455	438	426	394	590	815	3610	1260	579	321	322
23	668	405	441	407	391	615	785	3840	1200	557	318	317
24	605	455	444	373	381	698	805	4220	1150	541	316	312
25	596	515	431	390	364	795	986	4560	1100	523	315	306
26	586	486	385	385	355	870	1390	4550	1070	506	314	313
27	593	496	365	345	338	795	1920	4260	1050	488	308	323
28	620	450	416	262	297	724	e2600	3920	1210	471	299	318
29	662	376	382	239	---	713	e2400	3510	1170	458	294	309
30	712	485	422	421	---	694	e2200	3060	1020	478	293	304
31	632	---	413	454	---	678	---	2790	---	658	291	---
TOTAL	18179	13828	12845	11711	10409	16225	27503	111020	52400	21135	11918	10343
MEAN	586	461	414	378	372	523	917	3581	1747	682	384	345
MAX	841	592	493	567	441	870	2600	6480	2640	956	699	496
MIN	421	348	287	181	243	289	530	1820	1020	458	291	275
AC-FT	36060	27430	25480	23230	20650	32180	54550	220200	103900	41920	23640	20520
IN.	.52	.39	.36	.33	.30	.46	.78	3.15	1.49	.60	.34	.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

MEAN	574	710	816	829	787	1077	2308	6763	7109	2190	796	563
MAX	677	1267	2147	2475	1644	1642	3298	11510	11500	3494	1078	739
(WY)	1996	1997	1996	1997	1996	1995	1997	1997	1996	1995	1997	1998
MIN	408	397	414	378	372	511	917	3581	1747	682	384	318
(WY)	1995	1994	2001	2001	2001	1994	2001	2001	2001	2001	2001	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1994 - 2001	
ANNUAL TOTAL	585189		317516			
ANNUAL MEAN	1599		870		2046	
HIGHEST ANNUAL MEAN					3125	1997
LOWEST ANNUAL MEAN					870	2001
HIGHEST DAILY MEAN	9570	May 23	6480	May 15	20000	May 17 1997
LOWEST DAILY MEAN	287	Dec 13	181	Jan 8	181	Jan 8 2001
ANNUAL SEVEN-DAY MINIMUM	384	Dec 7	284	Aug 30	284	Aug 30 2001
ANNUAL RUNOFF (AC-FT)	1161000		629800		1482000	
ANNUAL RUNOFF (INCHES)	16.62		9.02		21.22	
10 PERCENT EXCEEDS	4960		2200		5370	
50 PERCENT EXCEEDS	656		469		791	
90 PERCENT EXCEEDS	417		322		413	

e Estimated

SALMON RIVER BASIN

13316500 LITTLE SALMON RIVER AT RIGGINS, ID

LOCATION.--Lat 45°24'47", long 116°19'29", in SE¼SW¼ sec.15, T.24 N., R.1 E., Idaho County, Hydrologic Unit 17060210, on right bank, 14 ft upstream from road bridge, at mile 0.5, and 0.8 mi southwest of Riggins.

DRAINAGE AREA.--576 mi^2. Mean elevation, 5,430 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1951 to February 1955, September 1956 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,760 ft above sea level, from topographic map. Prior to Sept. 28, 1984, at site 250 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Station equipment includes telemetry. Diversions above station for irrigation of about 15,300 acres, (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s June 17, 1974, gage height, 11.05 ft, from floodmark; maximum gage height, 12.39 ft, June 13, 1953, site and datum then in use; minimum, 54 ft^3/s Dec. 21, 1990, gage height, 2.71 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood about June 1, 1948, reached a discharge of 9,200 ft^3/s, by slope-area 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 12	2315	2,580	6.17	May 16	0715	*3,300	*6.88
				May 24	2230	2,090	5.69

Minimum, 105 ft^3/s Feb. 8, gage height, 2.25 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	274	199	172	165	164	461	1200	804	350	203	123
2	224	248	194	166	163	182	470	959	779	322	189	123
3	201	245	192	173	165	167	462	836	726	301	179	125
4	183	245	188	171	167	170	420	834	721	286	172	128
5	176	246	186	171	174	176	391	959	714	288	176	125
6	172	231	180	165	173	187	386	963	822	298	168	132
7	170	220	179	144	168	197	396	968	762	280	162	137
8	166	228	184	164	129	211	401	1170	689	263	156	135
9	163	230	188	176	173	239	368	1330	624	254	151	132
10	164	225	183	170	175	243	360	1330	584	242	148	131
11	193	208	175	169	168	252	362	1410	613	232	146	133
12	197	205	154	175	164	259	391	1710	737	230	144	127
13	244	184	183	171	164	273	366	2090	708	226	140	128
14	273	214	186	171	155	300	344	2040	612	221	143	131
15	260	215	193	170	164	307	338	2760	550	232	143	132
16	232	196	181	163	163	301	344	2740	501	276	140	139
17	219	193	189	146	161	286	388	2030	471	286	138	140
18	212	191	184	176	164	274	453	1780	446	263	139	133
19	205	190	182	174	164	327	549	1750	419	246	136	130
20	202	191	183	166	167	548	542	1610	396	235	133	126
21	368	192	181	169	169	598	506	1450	379	239	130	122
22	329	193	184	168	178	612	483	1500	367	229	130	117
23	272	184	186	166	178	646	473	1620	360	218	130	115
24	257	199	195	167	177	712	503	1730	345	209	134	115
25	247	195	192	169	171	690	632	1790	335	200	131	114
26	240	195	181	167	170	746	850	1680	328	188	131	126
27	272	200	182	160	161	586	1150	1500	326	181	134	122
28	300	193	175	155	150	523	1410	1340	568	177	129	120
29	375	190	179	153	---	515	1130	1120	474	176	128	118
30	347	211	178	167	---	481	965	934	387	187	127	115
31	298	---	176	169	---	450	---	843	---	213	124	---
TOTAL	7363	6331	5692	5163	4640	11622	16294	45976	16547	7548	4534	3794
MEAN	238	211	184	167	166	375	543	1483	552	243	146	126
MAX	375	274	199	176	178	746	1410	2760	822	350	203	140
MIN	163	184	154	144	129	164	338	834	326	176	124	114
AC-FT	14600	12560	11290	10240	9200	23050	32320	91190	32820	14970	8990	7530
CFSM	.41	.37	.32	.29	.29	.65	.94	2.57	.96	.42	.25	.22
IN.	.48	.41	.37	.33	.30	.75	1.05	2.97	1.07	.49	.29	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2001, BY WATER YEAR (WY)

MEAN	240	289	324	328	389	670	1311	2361	2344	695	258	223
MAX	752	915	1030	1501	962	2026	2481	4042	5109	1771	489	379
(WY)	1963	1974	1996	1974	1996	1983	1952	1952	1974	1982	1975	1959
MIN	104	122	130	126	139	180	377	628	309	165	105	105
(WY)	1988	1988	1993	1991	1994	1977	1977	1977	1992	1977	1992	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951 - 2001	
ANNUAL TOTAL	238674		135504			
ANNUAL MEAN	652		371		787	
HIGHEST ANNUAL MEAN					1393	1974
LOWEST ANNUAL MEAN					260	1977
HIGHEST DAILY MEAN	3130	May 22	2760	May 15	9650	Jun 17 1974
LOWEST DAILY MEAN	154	Dec 12	114	Sep 25	60	Dec 21 1990
ANNUAL SEVEN-DAY MINIMUM	159	Aug 18	118	Sep 22	95	Dec 20 1990
ANNUAL RUNOFF (AC-FT)	473400		268800		570300	
ANNUAL RUNOFF (CFSM)	1.13		.64		1.37	
ANNUAL RUNOFF (INCHES)	15.41		8.75		18.57	
10 PERCENT EXCEEDS	1880		827		2160	
50 PERCENT EXCEEDS	274		197		332	
90 PERCENT EXCEEDS	174		133		161	

SALMON RIVER BASIN

13316500 LITTLE SALMON RIVER AT RIGGINS, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971-1978, 1992, 1995, April to September 1998, April to September 2001 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1998, April to September 2001 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 23.4 °C July 12, 2001.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 23.4 °C July 12.

REMARKS.--Missing data due to equipment malfunction.

WATER-QUALITY DATA, APRIL TO SEPTEMBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)
APR										
11...	1115	367	111	8.0	6.0	5.6	20	12.4	106	S11
MAY										
10...	1045	1260	54	7.6	20.0	6.8	2.7	11.7	101	S8
JUN										
07...	0945	759	72	7.4	14.0	9.4	1.7	10.4	96.3	67
JUL										
13...	0910	227	130	8.1	19.0	16.0	4.4	9.6	104	140
AUG										
08...	1830	154	142	8.9	34.0	21.2	2.0	9.1	107	21
SEP										
20...	1620	128	166	8.9	31.0	15.8	4.4	10.7	116	20

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)	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)
SEP													
20...	74.0	23.1	3.95	5.5	13.7	1.69	72	5	68	15.4	1.1	E.1	14.8

DATE	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR										
11...	--	--	--	.002	.18	.019	<.007	.022	4	4.0
MAY										
10...	--	--	--	<.002	.14	.086	<.007	.021	7	24
JUN										
07...	--	--	--	.010	.11	.031	E.005	.018	4	8.2
JUL										
13...	--	--	--	.004	.19	.044	.010	.023	3	1.8
AUG										
08...	--	--	--	.004	.24	.044	.009	.021	2	.83
SEP										
20...	107	.145	37	.004	.25	.051	.011	.029	3	1.0

E Estimated value
S Most probable value

13316500 LITTLE SALMON RIVER AT RIGGINS, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	8.0	5.5	6.7
2	---	---	---	---	---	---	---	---	---	8.3	4.9	6.4
3	---	---	---	---	---	---	---	---	---	10.2	4.6	7.2
4	---	---	---	---	---	---	---	---	---	11.6	6.3	8.8
5	---	---	---	---	---	---	---	---	---	10.8	8.0	9.5
6	---	---	---	---	---	---	---	---	---	10.2	5.1	7.7
7	---	---	---	---	---	---	---	---	---	11.6	5.8	8.5
8	---	---	---	---	---	---	---	---	---	11.6	7.1	9.4
9	---	---	---	---	---	---	---	---	---	10.8	7.1	9.0
10	---	---	---	---	---	---	---	---	---	11.1	6.3	8.7
11	---	---	---	---	---	---	---	---	---	11.7	6.3	9.0
12	---	---	---	---	---	---	8.2	5.2	6.5	12.7	6.6	9.4
13	---	---	---	---	---	---	7.6	5.2	6.4	11.1	7.6	8.9
14	---	---	---	---	---	---	9.4	4.3	6.7	9.1	7.2	8.1
15	---	---	---	---	---	---	9.7	4.8	7.3	8.8	6.5	7.5
16	---	---	---	---	---	---	11.0	6.3	8.5	8.9	6.8	8.0
17	---	---	---	---	---	---	11.3	8.0	9.6	9.7	6.0	7.8
18	---	---	---	---	---	---	10.8	8.3	9.6	11.7	8.0	9.6
19	---	---	---	---	---	---	11.1	6.9	8.7	11.1	7.1	9.0
20	---	---	---	---	---	---	9.1	6.8	7.8	11.0	7.7	9.4
21	---	---	---	---	---	---	9.4	6.8	8.0	11.4	6.5	8.8
22	---	---	---	---	---	---	9.4	6.0	7.8	13.4	8.0	10.5
23	---	---	---	---	---	---	10.5	7.7	9.1	14.4	8.9	11.5
24	---	---	---	---	---	---	13.1	7.7	10.3	14.7	9.9	12.2
25	---	---	---	---	---	---	13.4	8.2	10.8	15.3	10.8	12.9
26	---	---	---	---	---	---	12.3	7.9	10.4	14.5	10.8	12.8
27	---	---	---	---	---	---	12.3	7.6	9.9	15.6	11.4	13.4
28	---	---	---	---	---	---	10.2	6.9	7.7	14.8	11.7	13.3
29	---	---	---	---	---	---	8.3	5.7	6.9	13.3	10.0	11.6
30	---	---	---	---	---	---	8.9	6.5	7.4	13.0	8.3	10.6
31	---	---	---	---	---	---	---	---	---	15.3	10.2	12.5
MONTH	---	---	---	---	---	---	---	---	---	15.6	4.6	9.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.8	11.1	13.3	20.7	15.3	17.9	---	---	---	19.5	14.2	16.7
2	14.0	11.0	12.4	21.1	15.3	18.0	---	---	---	19.6	14.2	16.7
3	11.9	9.7	10.6	21.1	15.5	18.2	---	---	---	18.8	14.2	16.6
4	10.2	8.5	9.0	21.6	16.7	18.6	---	---	---	18.0	14.0	16.2
5	10.3	7.6	8.8	19.1	17.2	17.8	---	---	---	16.2	13.4	14.8
6	11.7	8.6	10.1	20.1	15.3	17.5	---	---	---	16.2	11.9	13.9
7	13.3	9.4	11.1	18.3	14.8	16.9	---	---	---	15.8	11.6	13.6
8	15.3	10.5	12.7	21.4	15.5	18.0	---	---	---	15.8	10.2	12.9
9	16.6	12.3	14.2	21.2	15.9	18.6	20.3	14.8	17.5	16.1	10.8	13.4
10	14.7	12.0	12.8	21.2	15.9	18.8	21.1	15.0	17.9	16.7	11.4	14.0
11	12.7	10.8	11.8	20.3	16.4	18.5	21.2	15.8	18.1	17.2	12.0	14.5
12	12.2	10.0	11.1	23.4	16.4	19.2	20.4	15.1	17.9	18.2	13.1	15.4
13	11.4	8.5	9.6	19.5	15.9	17.4	19.1	16.1	17.9	17.4	15.0	16.1
14	12.3	8.6	10.5	---	---	---	20.7	15.8	18.0	18.8	14.2	16.2
15	15.0	9.6	12.1	19.3	15.9	17.5	21.2	15.5	18.1	18.5	13.6	16.0
16	16.1	10.2	13.0	17.8	15.0	16.1	20.6	15.1	17.9	18.8	14.8	16.5
17	15.0	11.7	13.4	18.0	13.6	15.5	20.9	15.1	18.0	18.3	14.2	16.2
18	15.1	10.0	12.5	17.2	13.9	15.3	20.1	15.3	17.7	17.7	13.4	15.5
19	16.1	10.2	13.0	---	---	---	19.3	14.0	16.6	16.2	12.3	14.3
20	17.0	10.8	13.9	---	---	---	19.0	13.3	16.1	15.9	11.3	13.5
21	18.6	12.3	15.4	---	---	---	18.8	13.6	16.1	15.5	11.3	13.4
22	19.8	13.9	16.6	---	---	---	17.5	13.9	15.6	15.9	11.1	13.4
23	18.6	14.4	16.4	---	---	---	16.4	13.6	15.2	16.1	11.6	13.8
24	16.1	13.3	14.4	---	---	---	19.3	14.0	16.2	16.9	12.2	14.3
25	15.6	11.4	13.4	---	---	---	18.5	13.0	15.8	15.6	12.2	13.8
26	17.8	12.8	15.0	---	---	---	19.5	13.3	16.3	16.1	12.0	13.8
27	17.8	14.2	15.7	---	---	---	19.9	14.4	17.1	15.6	12.3	13.9
28	18.3	13.9	15.7	---	---	---	18.8	14.5	16.9	14.8	12.8	13.8
29	19.9	14.2	16.9	---	---	---	19.5	13.7	16.5	15.0	10.8	12.9
30	19.6	14.8	17.2	---	---	---	19.6	13.7	16.6	15.0	10.3	12.6
31	---	---	---	---	---	---	19.1	14.8	16.8	---	---	---
MONTH	19.9	7.6	13.1	---	---	---	---	---	---	19.6	10.2	14.6

SALMON RIVER BASIN

13317000 SALMON RIVER AT WHITE BIRD, ID

LOCATION.--Lat 45°45'01", long 116°19'23", in NE¼NW¼SW¼ sec.22, T.28 N., R.1 E., Idaho County, White Bird quad., Hydrologic Unit 17060209, on left bank 0.1 mi upstream from White Bird Creek, 0.6 mi downstream from Canfield-Joseph highway bridge, 1 mi southwest of White Bird, and at mile 53.7.

DRAINAGE AREA.--13,550 mi^2, approximately, includes that of White Bird Creek. Mean elevation, 6,720 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1910 to September 1917, October 1919 to current year.

REVISED RECORDS.--WSP 753: 1932. WSP 1043: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,412.65 ft above sea level. Aug. 18, 1910 to Sept. 30, 1917 and Oct. 1, 1919 to Sept. 13, 1920, nonrecording gages at site 600 ft downstream at different datum. Sept. 14, 1920 to Jan. 2, 1931, nonrecording gage on highway bridge 200 ft upstream at datum 10 ft higher.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 165,000 acres, of which about 1,200 acres are irrigated by withdrawals from ground water (1966 determination). Records include flow of White Bird Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130,000 ft^3/s June 17, 1974, gage height, 35.81 ft; minimum daily, 1,000 ft^3/s Jan. 4, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31,900 ft^3/s May 16, gage height, 21.67 ft; minimum daily, 2,260 ft^3/s Sept. 1-3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4310	5180	3990	3520	3160	3150	5570	15800	16900	6800	4410	2260
2	5400	5020	4110	3560	3450	3150	5680	15200	16100	6410	4390	2260
3	5220	4830	3920	3460	3630	3360	5630	13600	15300	6070	3970	2260
4	4480	4700	3570	3300	3690	3520	5370	12500	15400	5790	3700	2280
5	4180	4680	3650	3240	3670	3580	5170	12500	15500	5610	3530	2270
6	4060	4710	3770	3350	3760	3640	5000	12800	15400	5530	3420	2290
7	3970	4630	3690	3290	3740	3730	4960	13000	15200	5440	3330	2640
8	3930	4550	3530	3140	3490	3880	4930	13800	14600	5230	3210	3190
9	3930	4420	3620	3060	3280	4130	4850	15300	14200	5020	3120	3220
10	3930	4510	3810	3030	3020	4330	4720	16700	13500	4910	3030	3070
11	3990	4420	3910	3390	3110	4410	4630	17800	13100	4890	2930	2980
12	4110	4280	3780	3720	3380	4300	4630	19200	13200	4980	2890	2880
13	4680	4160	3310	3820	3420	4230	4630	22300	13600	5080	2900	2780
14	5710	3990	3180	3780	3370	4160	4550	24900	13300	5010	2940	2730
15	6030	3830	3570	3800	3330	4180	4470	28600	12800	4850	2960	2750
16	5720	4130	3910	3770	3300	4090	4440	31200	11900	5010	2910	2920
17	5210	4250	3900	3460	3350	3970	4580	29300	11100	5340	2840	2990
18	5020	4040	3660	3200	3430	3920	4990	25600	10500	5120	2790	3310
19	4970	3770	3570	3030	3540	3960	5810	23800	9990	4910	2740	3240
20	4980	3670	3610	3200	3520	4430	6380	22500	9500	4810	2660	3110
21	5430	3650	3570	3390	3510	4920	6470	21200	9120	4640	2600	2990
22	5860	3700	3520	3560	3560	5080	6370	20400	8780	4490	2560	2900
23	5610	3790	3620	3650	3590	5270	6280	20800	8410	4270	2550	2830
24	5290	3770	3890	3580	3640	5670	6300	22100	8090	4110	2530	2800
25	5110	3890	4080	3680	3570	6220	6970	23800	7790	3970	2510	2790
26	5000	4230	4100	3660	3480	6850	8650	24600	7500	3850	2480	2800
27	5000	4290	3900	3600	3400	6830	11600	24200	7260	3700	2460	2760
28	5080	4440	3610	3400	3280	6380	15200	23600	7880	3570	2400	2760
29	5250	4280	3440	3080	---	6110	16400	22100	7910	3470	2350	2750
30	5380	3990	3260	2850	---	5850	15500	19800	7310	3430	2300	2710
31	5350	---	3350	2930	---	5660	---	17900	---	3650	2280	---
TOTAL	152190	127800	114400	105500	96670	142960	200730	626900	351140	149960	91690	83520
MEAN	4909	4260	3690	3403	3452	4612	6691	20220	11700	4837	2958	2784
MAX	6030	5180	4110	3820	3760	6850	16400	31200	16900	6800	4410	3310
MIN	3930	3650	3180	2850	3020	3150	4440	12500	7260	3430	2280	2260
AC-FT	301900	253500	226900	209300	191700	283600	398100	1243000	696500	297400	181900	165700
CFSM	.36	.31	.27	.25	.25	.34	.49	1.49	.86	.36	.22	.21
IN.	.42	.35	.31	.29	.27	.39	.55	1.72	.96	.41	.25	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2001, BY WATER YEAR (WY)

MEAN	4797	4942	4558	4247	4459	5557	11680	31870	38270	13590	5409	4422
MAX	8592	8254	10980	11240	8983	11680	27130	58950	82600	35470	8888	7077
(WY)	1963	1984	1996	1997	1996	1986	1943	1997	1974	1975	1965	1965
MIN	2952	3010	2749	2737	2875	3516	5401	10510	8803	3521	2299	2257
(WY)	1932	1932	1936	1932	1932	1955	1929	1977	1992	1931	1931	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1910 - 2001	
ANNUAL TOTAL	3289460		2243460			
ANNUAL MEAN	8988		6146		11160	
HIGHEST ANNUAL MEAN					17870	1997
LOWEST ANNUAL MEAN					5812	1931
HIGHEST DAILY MEAN	41600	May 25	31200	May 16	129000	Jun 17 1974
LOWEST DAILY MEAN	3130	Aug 30	2260	Sep 1	1000	Jan 4 1995
ANNUAL SEVEN-DAY MINIMUM	3210	Aug 26	2270	Aug 31	1500	Jan 1 1995
ANNUAL RUNOFF (AC-FT)	6525000		4450000		8085000	
ANNUAL RUNOFF (CFSM)	.66		.45		.82	
ANNUAL RUNOFF (INCHES)	9.03		6.16		11.19	
10 PERCENT EXCEEDS	23900		14400		29000	
50 PERCENT EXCEEDS	4830		4090		5290	
90 PERCENT EXCEEDS	3520		2900		3390	

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1966 to 1994, April to September 2000, April to September 2001 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1977 to September 1980 (discontinued).
WATER TEMPERATURE: October 1966 to September 1980, April to September 2000, April to September 2001 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily mean, 241 microsiemens/cm Dec. 27, 1978; minimum daily mean, 51 microsiemens/cm May 25, 1979.
WATER TEMPERATURE: Maximum, 28.0 °C July 31, Aug. 2, 1977; minimum, 0.0 °C on many days during winter months.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 24.8 °C Aug. 12.

WATER-QUALITY DATA, APRIL TO SEPTEMBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)
APR										
12...	1000	4600	135	7.7	8.0	7.2	6.1	12.3	107	S15
MAY										
11...	1000	17800	64	7.6	23.0	11.0	7.0	10.6	101	S9
JUN										
08...	0815	14700	72	7.7	17.5	11.7	2.5	10.2	99.5	S11
JUL										
12...	1445	4990	120	8.4	34.5	23.0	7.7	9.5	117	S2
AUG										
08...	1530	3210	134	8.6	36.0	23.6	2.5	9.6	118	S8
SEP										
20...	1200	3120	165	8.0	26.5	17.5	5.7	9.0	99.0	S7

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)	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)
SEP													
20...	66.6	19.8	4.17	8.5	21.3	1.58	87	0	71	9.9	2.1	.5	12.1

DATE	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR										
12...	--	--	--	<.002	.18	.008	E.004	.024	4	50
MAY										
11...	--	--	--	<.002	.20	.018	E.006	.045	34	1630
JUN										
08...	--	--	--	.004	.10	.009	E.006	.023	11	436
JUL										
12...	--	--	--	<.002	.20	.008	E.004	.016	3	40
AUG										
08...	--	--	--	<.002	.19	<.005	E.005	.017	3	26
SEP										
20...	102	.138	856	.003	.23	.008	E.004	.017	5	42

E Estimated value
S Most probable value

SALMON RIVER BASIN

13317000 SALMON RIVER AT WHITE BIRD, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	9.9	8.8	9.2
2	---	---	---	---	---	---	---	---	---	9.5	8.5	9.0
3	---	---	---	---	---	---	---	---	---	9.4	7.8	8.7
4	---	---	---	---	---	---	---	---	---	10.0	8.6	9.3
5	---	---	---	---	---	---	---	---	---	10.8	9.9	10.2
6	---	---	---	---	---	---	---	---	---	11.2	9.7	10.5
7	---	---	---	---	---	---	---	---	---	11.4	10.0	10.7
8	---	---	---	---	---	---	---	---	---	11.6	10.8	11.3
9	---	---	---	---	---	---	---	---	---	11.9	10.9	11.4
10	---	---	---	---	---	---	---	---	---	12.2	10.9	11.6
11	---	---	---	---	---	---	---	---	---	12.5	10.9	11.7
12	---	---	---	---	---	---	---	---	---	12.3	11.1	11.8
13	---	---	---	---	---	---	8.5	7.4	7.9	12.2	11.4	11.8
14	---	---	---	---	---	---	9.2	7.1	8.1	11.9	10.8	11.1
15	---	---	---	---	---	---	10.0	7.8	8.8	10.8	10.2	10.6
16	---	---	---	---	---	---	10.6	8.3	9.4	10.6	10.0	10.3
17	---	---	---	---	---	---	10.8	9.4	10.0	10.3	9.5	10.0
18	---	---	---	---	---	---	10.9	9.5	10.2	11.4	9.7	10.4
19	---	---	---	---	---	---	11.1	9.9	10.4	11.9	10.6	11.2
20	---	---	---	---	---	---	10.6	10.2	10.4	12.2	11.1	11.6
21	---	---	---	---	---	---	10.9	10.0	10.3	12.3	10.9	11.6
22	---	---	---	---	---	---	10.9	9.7	10.2	12.8	10.9	11.9
23	---	---	---	---	---	---	11.1	10.0	10.4	13.7	11.9	12.7
24	---	---	---	---	---	---	12.2	10.0	11.0	14.7	13.0	13.8
25	---	---	---	---	---	---	12.6	10.8	11.7	15.1	13.7	14.4
26	---	---	---	---	---	---	12.8	11.6	12.2	14.8	14.0	14.5
27	---	---	---	---	---	---	13.4	12.2	12.7	15.0	13.9	14.4
28	---	---	---	---	---	---	12.8	11.1	11.8	15.1	13.9	14.6
29	---	---	---	---	---	---	11.1	10.3	10.7	14.8	13.7	14.2
30	---	---	---	---	---	---	10.5	9.7	10.0	14.3	13.1	13.8
31	---	---	---	---	---	---	---	---	---	15.0	13.1	14.0
MONTH	---	---	---	---	---	---	---	---	---	15.1	7.8	11.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.6	13.9	14.7	21.9	19.9	20.9	21.2	18.8	20.0	22.6	20.7	21.7
2	15.4	14.7	15.0	22.6	20.4	21.5	21.6	19.1	20.1	22.2	20.7	21.6
3	15.1	14.5	14.8	23.2	21.1	22.1	21.7	19.3	20.4	22.2	20.6	21.5
4	14.5	12.8	13.5	23.9	22.1	22.8	---	---	---	21.7	20.4	21.3
5	12.8	10.9	11.6	23.2	22.2	22.6	---	---	---	21.4	19.3	20.3
6	11.4	10.3	10.9	22.9	21.7	22.3	---	---	---	20.1	18.6	19.4
7	12.3	10.9	11.4	22.9	21.1	22.1	---	---	---	19.6	18.3	18.9
8	13.7	11.9	12.7	23.2	21.4	22.2	---	---	---	19.3	17.3	18.3
9	15.0	13.4	14.2	23.6	21.9	22.7	23.9	21.9	22.9	18.6	16.9	17.8
10	15.0	14.3	14.6	23.6	21.7	22.5	24.1	22.1	23.1	18.6	16.7	17.7
11	15.4	14.5	15.1	23.2	21.6	22.4	24.4	22.4	23.4	18.3	16.6	17.6
12	15.3	14.3	14.7	23.4	21.7	22.6	24.8	22.7	23.5	18.6	16.9	17.7
13	14.5	13.0	13.5	23.1	21.9	22.5	24.1	22.9	23.4	18.3	17.7	18.0
14	13.3	12.2	12.7	22.9	21.2	22.1	23.9	22.6	23.2	19.1	17.5	18.2
15	13.3	11.7	12.5	22.6	21.6	22.0	24.1	22.1	23.0	19.6	17.8	18.6
16	14.5	12.3	13.3	21.6	20.6	21.1	24.1	22.2	23.1	19.9	18.5	19.1
17	15.1	13.9	14.5	20.9	19.9	20.4	23.8	22.1	22.9	20.3	18.5	19.2
18	16.4	14.5	15.4	20.1	19.0	19.5	23.1	21.9	22.5	20.4	18.6	19.5
19	16.9	15.3	16.1	20.7	18.6	19.5	22.7	21.2	22.0	19.6	18.2	19.0
20	17.5	15.9	16.7	21.1	19.3	20.0	22.4	20.6	21.6	19.1	17.3	18.3
21	18.5	16.7	17.5	20.9	19.3	20.1	22.2	20.6	21.4	18.6	17.0	17.9
22	19.6	17.8	18.6	21.9	19.4	20.5	21.6	20.6	21.0	18.3	16.6	17.4
23	19.9	18.8	19.4	22.7	20.3	21.3	21.1	20.1	20.5	18.0	16.6	17.3
24	19.4	18.3	19.0	23.4	20.6	21.8	21.2	19.8	20.5	18.0	16.6	17.2
25	19.4	18.0	18.7	23.6	21.1	22.2	21.2	19.3	20.3	17.5	16.4	16.9
26	19.3	18.2	18.7	23.9	20.9	22.4	21.7	19.4	20.6	17.2	15.6	16.4
27	19.4	18.6	18.9	24.1	20.9	22.5	22.1	20.3	21.2	17.5	15.9	16.6
28	19.6	18.5	19.0	23.4	21.1	22.1	21.9	20.6	21.3	16.9	15.8	16.2
29	20.6	18.6	19.5	21.1	17.7	19.6	22.1	20.3	21.2	16.6	14.8	15.6
30	21.1	19.4	20.2	19.4	16.2	18.1	22.4	20.6	21.6	16.9	15.0	15.9
31	---	---	---	21.2	18.3	19.9	22.2	21.1	21.7	---	---	---
MONTH	21.1	10.3	15.6	24.1	16.2	21.4	---	---	---	22.6	14.8	18.4

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles.
MESH SIZE.--425 um.
AVERAGE DEPTH.-- 0.80 m.
AVERAGE PERCENT SHADING.--15.
AVERAGE VELOCITY.-- 0.64.
SUBSTRATE EMBEDDEDNESS CLASS RANGE.--4-5.
PERCENT FINES RANGE.--2.

BIOLOGICAL DATA, AUGUST 2000
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE Aug. 29	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION
NON-INSECTS			
Porifera		4	0.13
Turbellaria		26	0.92
Potamopyrgus antipodarum		4	0.13
Fluminicola n.sp. near fuscus		218	7.72
Fisherola nuttalli		4	0.13
Stagnicola idahoensis		11	0.39
Physella		30	1.05
Acari		63	2.23
EPHEMEROPTERA			
Acentrella insignificans		81	2.88
Baetis tricaudatus		11	0.39
Fallceon quilleri		4	0.13
Drunella doddsi		133	4.71
Drunella grandis		41	1.44
Ephemerella inermis/infrequens		7	0.26
Epeorus albertae		48	1.70
Heptagenia		30	1.05
Rhithrogena		41	1.44
PLECOPTERA			
Hesperoperla pacifica		11	0.39
TRICHOPTERA			
Brachycentrus occidentalis		22	0.79
Glossosoma		11	0.39
Helicopsyche borealis		41	1.44
Cheumatopsyche		74	2.62
Hydropsyche		151	5.37
Hydroptila		4	0.13
Leucotrichia		7	0.26
Ochrotrichia		55	1.96
Lepidostoma-sand case larvae		4	0.13
Ceraclea		4	0.13
Psychomyia		7	0.26
LEPIDOPTERA			
Petrophila		26	0.92
COLEOPTERA			
Zaitzevia		133	4.71
DIPTERA			
Atherix		4	0.13
Empididae-pupae		4	0.13
Hemerodromia		7	0.26
Simulium		414	14.66
Antocha		4	0.13
CHIRONOMIDAE			
Chironomidae-pupae		26	0.92
Cardiocladius		351	12.43
Cricotopus		96	3.40
Cricotopus Trifascia group		255	9.03
Eukiefferiella		188	6.68
Orthocladius Complex		103	3.66
Potthastia Gaedii group		15	0.52
Thienemanniella		7	0.26
Thienemannimyia group		7	0.26
Tvetenia Discoloripes group		37	1.31

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 8
TOTAL INDIVIDUALS 2,821

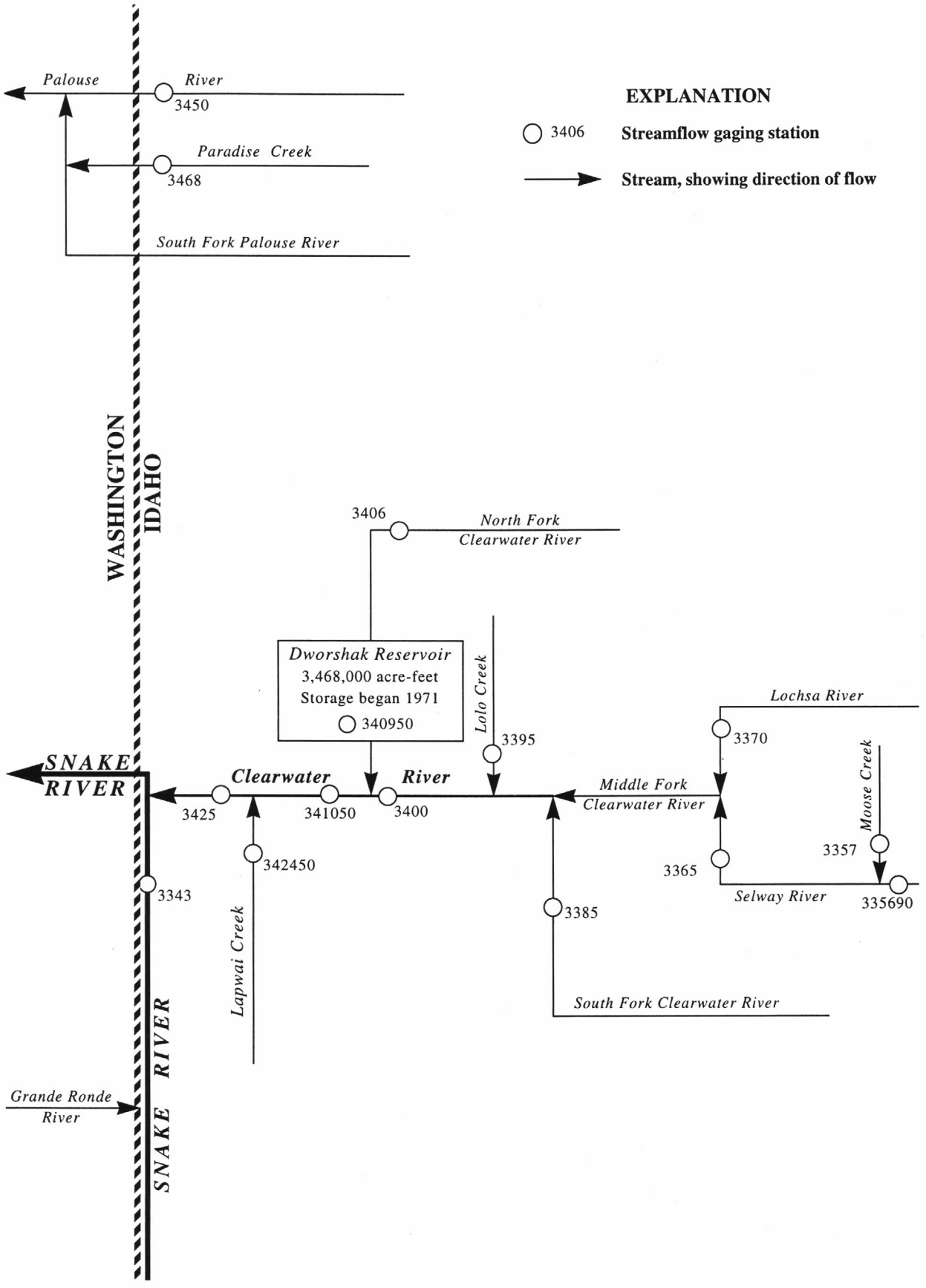


Figure 17. Schematic diagram showing gaging stations in the Clearwater and Palouse River basins.

SNAKE RIVER MAIN STEM

13334300 SNAKE RIVER NEAR ANATONE, WA

LOCATION.--Lat 46°05'50", long 116°58'36", in SE¼SE¼NE¼ sec.12, T.7 N., R.46 E., Asotin County, Washington, Hydrologic Unit 17060103, on left bank, 1.2 mi downstream from Grande Ronde River, 7.8 mi east of Anatone, 22 mi south of Clarkston, and at mile 167.2.

DRAINAGE AREA.--92,960 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1958 to current year.

REVISED RECORDS.--WDR ID-76-1: 1974 and 1975.

GAGE.--Water-stage recorder. Datum of gage is 806.78 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 4,090,000 acres of which about 750,000 acres are irrigated by withdrawals from ground water. Flow regulated by many reservoirs above station with a total usable capacity of more than 10,000,000 acre-feet, the most effective of which is Brownlee Reservoir 117.8 mi upstream (see sta 13289700). Diurnal fluctuations caused by Hells Canyon powerplant.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195,000 ft^3/s June 18, 1974, gage height, 24.45 ft; minimum, 6,010 ft^3/s Sept. 2, 1958, gage height, 1.29 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 65,500 ft^3/s May 17, gage height, 11.73 ft; minimum, 9,440 ft^3/s Sept. 2, gage height, 2.47 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14000	16200	14900	13200	14600	13800	25900	37900	36000	15900	12200	12000
2	18900	16000	14900	13300	16500	13500	21500	34600	29000	15400	15600	9820
3	25700	15900	14900	13200	14500	16900	26400	31400	27400	16600	15800	10300
4	26000	15700	14700	13100	13700	16100	24800	30600	26400	16300	14300	12700
5	25700	15700	17500	13000	13900	14300	22800	31000	25800	17900	11500	14500
6	25400	15600	20500	13100	14100	14900	23200	27600	25000	16800	13300	15200
7	25000	15500	17000	13100	17800	17100	21200	28200	26400	14700	17000	12500
8	22400	15400	16500	12900	21200	16800	20300	30300	29500	13600	16600	12100
9	15500	15500	16000	13000	20900	18200	19700	31300	29600	13100	16900	10800
10	14300	15300	14800	14900	16400	18000	21800	31900	23400	13400	14000	11900
11	14400	15400	17000	14600	14600	15800	21100	34000	23200	14100	16600	14400
12	14400	15200	20700	19700	13600	16500	19100	34700	23200	14800	13500	14200
13	14700	15000	19300	16400	18600	19300	20700	36200	23300	13500	12200	13600
14	15600	14800	17800	13800	20900	21500	20700	41500	23100	14600	13300	12500
15	16300	14600	14100	14200	21100	21300	18500	48200	22900	13100	13800	11200
16	16400	14600	15000	16900	15900	23800	18100	54200	24500	13100	11700	10300
17	15900	14800	16300	22200	14600	20100	23400	58000	20300	13700	15800	10600
18	15600	14700	18300	24300	14200	17200	23900	54900	20400	13900	15000	14000
19	15400	14500	17800	20000	13500	16600	22400	52100	20100	14100	11700	15300
20	15400	14300	15300	18700	13500	23000	23200	46600	18800	14100	10000	13600
21	15500	14400	15200	16900	13500	25000	26400	40100	20400	16200	12300	17100
22	16300	14300	13400	16700	13500	24400	23400	40300	18100	13000	11800	15300
23	16300	14400	13400	15600	14600	20800	23700	40400	17700	14600	11100	10800
24	16000	14500	13600	14700	16900	21200	22900	41100	16900	20200	12700	10600
25	16100	14600	13800	13700	13900	19800	23900	42700	16800	18000	10800	16300
26	15900	14800	13900	14400	14000	22500	27100	44600	16700	20400	10100	13600
27	15900	15000	13900	18500	15600	28700	29000	40000	16500	18000	12000	12700
28	16000	15300	13600	19800	15700	29100	32700	39600	16700	16500	15300	10800
29	16200	15300	13200	22800	---	28800	32200	43300	17500	11900	12800	10800
30	16400	15200	13100	18600	---	29400	31800	37900	16800	12000	13500	10300
31	16400	---	13000	15100	---	26900	---	35200	---	11700	12200	---
TOTAL	544000	452500	483400	500400	441800	631300	711800	1220400	672400	465200	415400	379820
MEAN	17550	15080	15590	16140	15780	20360	23730	39370	22410	15010	13400	12660
MAX	26000	16200	20700	24300	21200	29400	32700	58000	36000	20400	17000	17100
MIN	14000	14300	13000	12900	13500	13500	18100	27600	16500	11700	10000	9820
AC-FT	1079000	897560	958800	992500	876300	1252000	1412000	2421000	1334000	922700	823900	753400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2001, BY WATER YEAR (WY)

MEAN	21560	22250	25220	29690	33710	40150	49120	67010	71990	30980	18080	19460
MAX	31540	36960	41630	71930	72520	90400	88700	118700	134200	63860	29140	31730
(WY)	1985	1985	1965	1997	1965	1972	1974	1984	1984	1982	1997	1997
MIN	13760	13620	13570	16140	15780	18680	18880	20610	16850	12830	9765	10180
(WY)	1989	1993	1993	2001	2001	1977	1977	1977	1992	1977	1992	1992

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1958 - 2001	
ANNUAL TOTAL	10829600		6918420			
ANNUAL MEAN	29590		18950		35740	
HIGHEST ANNUAL MEAN					59030	1997
LOWEST ANNUAL MEAN					18050	1992
HIGHEST DAILY MEAN	68200	Apr 23	58000	May 17	191000	Jun 18 1974
LOWEST DAILY MEAN	10100	Sep 29	9820	Sep 2	6630	Sep 1 1958
ANNUAL SEVEN-DAY MINIMUM	13100	Aug 21	11300	Aug 20	7150	Aug 28 1958
ANNUAL RUNOFF (AC-FT)	21480000		13720000		25890000	
10 PERCENT EXCEEDS	54800		29200		74500	
50 PERCENT EXCEEDS	26100		16000		25800	
90 PERCENT EXCEEDS	14100		12900		15300	

SNAKE RIVER MAIN STEM

13334300 SNAKE RIVER NEAR ANATONE, WA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to May 1984, October 1985 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1959 to May 1984, April 1986 to current year.

INSTRUMENTATION.--Temperature recorder since October 1959.

REMARKS.--Records poor. Interruptions in record this year were due to malfunction of the recording instrument. Prior to October 1990, records furnished by U. S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 25.5 °C Aug. 26, 28, 1991, Aug. 2-4, 1994, Aug. 14, 1998; minimum, 0.0 °C several days during winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 25.0 °C Aug. 16; minimum, 2.0 °C Feb. 9, 11-12.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.5	16.0	17.0	12.0	11.5	11.5	6.5	6.0	6.5	4.5	4.0	4.0
2	17.0	16.0	16.5	11.5	11.0	11.0	6.5	6.0	6.0	4.0	3.5	4.0
3	17.0	16.0	16.5	11.5	10.5	11.0	6.5	6.0	6.0	4.0	3.5	4.0
4	17.0	16.0	16.5	11.0	10.5	10.5	6.5	6.0	6.0	4.5	4.0	4.0
5	17.0	16.0	16.5	11.0	10.5	10.5	6.5	6.0	6.5	4.5	4.0	4.0
6	16.5	16.0	16.5	11.0	10.0	10.5	7.0	6.5	6.5	4.5	3.5	4.0
7	16.5	15.5	16.0	10.5	10.0	10.0	6.5	5.5	6.0	4.0	3.5	3.5
8	16.5	15.5	16.0	10.0	9.5	9.5	6.0	5.5	6.0	3.5	3.0	3.5
9	16.0	15.0	15.5	10.0	9.0	9.5	6.0	5.5	6.0	4.0	3.5	3.5
10	15.0	15.0	15.0	9.0	8.5	9.0	6.0	5.5	5.5	4.5	3.5	4.0
11	15.0	14.5	15.0	9.0	8.0	8.5	5.5	5.0	5.0	4.0	3.5	4.0
12	15.0	14.5	14.5	8.5	8.0	8.5	5.0	5.0	5.0	4.0	4.0	4.0
13	15.0	14.5	14.5	8.5	7.5	8.0	5.5	5.0	5.0	4.5	4.0	4.0
14	15.0	14.0	14.5	8.0	7.5	7.5	5.0	5.0	5.0	4.0	4.0	4.0
15	14.5	14.0	14.0	8.0	7.5	8.0	5.0	4.5	5.0	4.5	4.0	4.0
16	15.0	14.0	14.5	8.0	7.5	7.5	4.5	4.5	4.5	4.5	3.5	4.0
17	15.0	14.0	14.5	7.5	7.0	7.0	5.0	4.5	5.0	4.0	3.5	4.0
18	14.5	14.0	14.0	7.0	7.0	7.0	5.0	4.5	5.0	4.0	4.0	4.0
19	15.0	14.0	14.5	7.0	6.5	7.0	5.0	4.5	5.0	4.0	4.0	4.0
20	14.5	14.0	14.5	7.0	6.5	7.0	4.5	4.0	4.5	4.0	3.5	3.5
21	14.5	14.0	14.0	7.0	6.0	6.5	5.0	4.5	4.5	4.0	3.5	3.5
22	14.0	13.0	13.5	6.5	6.0	6.0	4.5	4.5	4.5	4.5	3.5	4.0
23	13.0	12.0	12.5	6.5	6.0	6.0	5.0	4.5	5.0	4.5	3.5	4.0
24	13.0	12.0	12.5	6.5	6.0	6.5	5.5	5.0	5.0	4.0	3.5	3.5
25	13.0	12.0	12.5	7.0	6.5	6.5	5.5	5.0	5.0	4.0	3.5	4.0
26	12.5	12.0	12.0	7.0	6.5	7.0	5.0	4.5	4.5	4.0	3.5	3.5
27	13.0	12.0	12.5	7.5	7.0	7.0	5.0	4.5	4.5	3.5	3.5	3.5
28	12.5	12.0	12.5	7.0	6.5	6.5	4.5	4.0	4.0	4.0	3.0	3.5
29	12.5	12.0	12.0	6.5	6.0	6.0	4.5	4.0	4.0	3.5	3.0	3.0
30	12.5	11.5	12.0	6.5	6.0	6.5	4.5	4.0	4.0	3.5	3.0	3.0
31	12.0	11.5	11.5	---	---	---	5.0	4.0	4.5	3.5	3.0	3.0
MONTH	17.5	11.5	14.3	12.0	6.0	8.1	7.0	4.0	5.1	4.5	3.0	3.8

13334300 SNAKE RIVER NEAR ANATONE, WA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	3.0	3.0	4.0	3.5	3.5	8.5	7.5	8.0	10.5	9.5	10.0
2	3.5	3.0	3.0	5.0	3.5	4.0	8.0	7.5	8.0	10.0	9.0	9.5
3	4.0	3.0	3.5	5.0	4.0	4.5	8.5	7.5	8.0	11.0	9.0	10.0
4	3.5	3.5	3.5	4.5	3.5	4.0	8.5	7.5	8.0	12.5	10.0	11.0
5	4.5	3.5	4.0	5.0	4.0	4.5	9.0	7.5	8.5	13.0	11.5	12.0
6	4.0	3.5	3.5	6.0	4.5	5.0	9.0	8.5	8.5	12.5	11.0	11.5
7	3.5	2.5	3.0	6.0	5.0	5.5	8.5	8.0	8.5	13.0	11.0	12.0
8	2.5	2.5	2.5	5.5	5.0	5.5	8.5	7.5	8.0	13.5	12.0	12.5
9	2.5	2.0	2.5	6.0	5.0	5.5	8.5	7.5	8.0	14.0	12.5	13.0
10	3.0	2.5	2.5	6.0	5.0	5.5	8.5	8.0	8.0	14.0	12.5	13.0
11	3.0	2.0	2.5	6.5	5.0	6.0	9.0	8.0	8.5	14.0	12.5	13.0
12	3.5	2.0	2.5	6.5	5.5	6.0	9.0	8.0	8.5	14.5	12.5	13.5
13	3.5	2.5	3.0	7.0	5.5	6.0	9.0	8.0	8.5	14.5	13.5	14.0
14	3.0	2.5	3.0	7.0	5.5	6.0	9.5	8.0	8.5	14.0	12.5	13.0
15	3.5	2.5	3.0	6.0	5.5	5.5	10.0	8.5	9.0	12.5	11.5	12.0
16	3.0	2.5	3.0	6.0	5.5	5.5	11.0	9.5	10.0	12.0	11.0	11.5
17	4.0	3.0	3.5	6.5	5.5	6.0	11.0	10.5	10.5	12.0	11.0	11.5
18	4.0	3.0	3.5	6.5	6.0	6.0	10.5	10.0	10.5	12.5	11.5	12.0
19	4.5	3.5	4.0	7.5	6.5	7.0	11.0	10.0	10.5	13.5	12.0	12.5
20	4.5	3.5	4.0	8.0	6.5	7.0	10.5	9.5	10.0	14.0	12.5	13.0
21	4.5	3.5	4.0	7.5	6.0	6.5	11.0	9.5	10.0	14.5	12.5	13.5
22	5.0	4.0	4.5	7.5	6.0	6.5	11.0	10.0	10.5	15.0	13.0	14.0
23	4.5	4.5	4.5	8.0	6.5	7.0	11.0	10.5	10.5	16.0	14.0	15.0
24	5.0	4.0	4.5	8.5	7.5	8.0	12.5	10.5	11.5	17.0	15.0	16.0
25	5.0	4.0	4.5	8.5	8.0	8.5	14.0	12.0	12.5	17.0	16.0	16.5
26	5.0	3.5	4.0	8.5	8.0	8.5	14.0	12.5	13.0	17.0	15.5	16.5
27	4.5	3.5	4.0	8.0	7.0	7.5	14.0	12.5	13.5	16.5	15.5	16.0
28	4.5	3.0	3.5	8.0	7.0	7.5	13.5	11.5	12.5	16.5	15.5	16.0
29	---	---	---	8.0	7.0	7.5	11.5	10.0	10.5	16.0	15.0	15.5
30	---	---	---	8.5	7.5	8.0	10.5	10.0	10.0	15.5	14.5	15.0
31	---	---	---	8.5	7.5	8.0	---	---	---	16.5	14.5	15.5
MONTH	5.0	2.0	3.4	8.5	3.5	6.2	14.0	7.5	9.7	17.0	9.0	13.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.0	16.0	16.5	22.5	20.5	21.5	22.5	20.0	21.0	23.5	---	---
2	17.0	16.0	16.5	22.5	21.0	21.5	23.0	21.0	21.5	---	---	---
3	16.0	15.0	15.5	22.5	21.0	21.5	23.5	21.5	22.5	---	---	---
4	15.0	14.5	14.5	23.0	21.5	22.0	23.0	21.5	22.0	23.5	21.0	22.0
5	14.5	14.0	14.0	22.5	21.5	22.0	24.0	21.5	22.5	22.0	20.5	21.5
6	15.0	13.5	14.0	22.0	20.5	21.0	23.5	21.5	22.0	22.0	20.0	21.0
7	15.0	14.0	14.5	22.5	20.5	21.5	23.5	22.0	22.5	21.5	18.0	20.5
8	16.5	14.5	15.5	23.5	21.0	22.0	24.0	22.0	22.5	22.0	20.0	20.5
9	17.5	15.5	16.5	24.0	21.5	22.5	24.0	22.0	22.5	22.0	19.5	20.5
10	16.5	16.0	16.5	24.0	22.0	22.5	24.0	22.0	22.5	21.5	18.5	20.0
11	16.5	15.5	16.0	23.5	22.0	22.5	23.5	22.0	22.5	22.0	20.0	21.0
12	16.0	15.5	15.5	23.0	21.5	22.0	24.0	22.5	23.0	21.5	20.0	21.0
13	15.5	15.0	15.5	23.0	21.5	22.0	24.0	22.5	23.0	22.0	20.5	21.0
14	16.0	14.5	15.0	23.0	21.5	22.5	24.5	22.5	23.0	22.5	20.5	21.0
15	16.5	14.5	15.5	23.0	21.5	22.0	24.5	22.5	23.5	23.0	20.5	21.0
16	17.5	15.5	16.5	22.5	21.0	21.5	25.0	22.5	23.5	---	---	---
17	17.0	16.0	16.5	22.0	20.5	21.0	24.0	22.5	23.0	---	---	---
18	18.0	16.0	16.5	21.5	20.0	20.5	24.0	22.0	22.5	21.5	20.5	21.0
19	18.5	16.5	17.5	22.0	20.0	21.0	23.5	---	---	21.5	20.0	20.5
20	19.0	17.5	18.0	22.5	20.5	21.0	---	---	---	21.5	19.5	20.5
21	20.0	18.0	19.0	22.5	20.5	21.0	23.0	---	---	21.5	20.0	20.5
22	20.5	19.0	20.0	23.0	20.5	21.5	23.5	21.0	21.5	21.0	20.0	20.5
23	21.0	19.5	20.0	23.0	21.0	21.5	22.5	21.0	21.5	21.5	19.5	20.0
24	20.0	18.5	19.5	22.5	21.0	21.5	23.0	21.0	21.5	21.5	19.0	20.0
25	19.0	18.0	18.5	22.5	21.0	21.5	24.0	20.0	21.5	20.0	19.5	20.0
26	19.5	18.0	19.0	22.5	21.0	21.5	---	---	---	20.0	19.0	19.5
27	19.5	19.0	19.0	23.0	21.0	21.5	---	---	---	20.5	19.0	19.5
28	21.0	19.0	20.0	22.0	21.0	21.5	23.0	21.5	22.0	20.0	18.5	19.0
29	21.0	19.0	20.0	21.0	20.0	20.5	24.0	21.5	22.0	20.0	18.0	18.5
30	22.0	20.0	21.0	20.5	19.5	20.0	23.5	21.5	22.5	---	---	---
31	---	---	---	22.0	19.5	20.5	---	---	---	---	---	---
MONTH	22.0	13.5	17.1	24.0	19.5	21.5	---	---	---	---	---	---

CLEARWATER RIVER BASIN

13335690 SELWAY RIVER ABOVE MOOSE CREEK NEAR MOOSE CREEK RANGER STATION, ID

LOCATION.--Lat 46°07'19", long 114°55'47", Idaho County, Hydrologic Unit 17060301, Selway Bitterroot Wilderness, Nezperce National Forest, on left bank at downstream side of pack bridge, 150 ft downstream of Tony Creek, 1,250 ft upstream of Moose Creek, 0.8 mi southwest of Moose Creek Ranger Station, and at mile 138.

DRAINAGE AREA.--987 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 2,190 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 17,300 ft^3/s May 17, 1997; minimum daily, 120 ft^3/s Dec. 21, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 9,500 ft^3/s May 15; minimum daily, 140 ft^3/s Jan. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2000	625	363	291	325	256	e1300	e5000	e4200	e1000	721	187
2	1710	584	293	265	281	367	e1300	e4000	e4000	e950	543	184
3	948	553	365	e260	276	323	e1200	e3600	e3600	e900	479	182
4	731	562	351	e260	270	305	e1100	e3400	e3600	e850	445	178
5	629	581	344	e280	305	309	e1000	e3600	e3200	e850	422	180
6	560	546	322	279	306	331	e1000	e3400	e3400	e800	401	270
7	514	516	273	225	285	394	e950	e3400	e3400	e800	380	295
8	479	481	299	e150	223	491	e950	e3600	e3200	e750	364	239
9	450	528	322	e160	210	e650	881	e4000	e3400	e750	348	221
10	428	388	351	e200	e240	e650	844	e4400	e3400	e700	337	209
11	431	418	297	e300	e240	e600	830	e4800	e3200	e650	323	199
12	449	454	163	e320	259	e550	e850	e5500	e3400	e650	314	191
13	636	364	e180	e320	267	e550	e800	e7500	e3000	e600	308	187
14	822	333	e220	302	249	e600	e750	e8000	e2800	e600	299	192
15	821	500	e320	285	251	e550	e700	e9500	e2800	e550	293	188
16	717	488	e400	270	261	e550	e800	e8500	e2600	e650	280	186
17	695	440	e440	247	263	e500	e950	e6500	e2600	645	270	192
18	719	383	459	215	262	e500	e1200	e6000	e2400	581	262	187
19	803	326	402	302	273	e600	e1500	e5500	e2200	578	252	176
20	821	324	e360	287	283	e1000	e1400	e5500	e2200	550	246	168
21	1000	410	e360	264	313	e950	e1300	e5000	e2000	567	241	166
22	983	469	e380	277	338	e950	e1200	e5500	e1800	512	235	162
23	858	380	e400	263	351	e1000	e1300	e6500	e1700	482	231	160
24	805	512	e400	238	346	e1200	e1700	e8000	e1600	461	227	157
25	759	538	e360	274	324	e1600	e2200	e8500	e1500	441	222	156
26	716	443	329	266	313	e1700	e3200	e8000	e1400	424	216	156
27	694	408	312	231	300	e1500	e4600	e7000	e1300	407	209	156
28	677	383	311	e140	233	e1400	e5200	e6500	e1500	393	203	156
29	682	335	283	e170	---	e1400	e5000	e6000	e1300	382	199	156
30	685	388	292	e300	---	e1300	e4700	e5000	e1100	406	196	156
31	632	---	303	e320	---	e1200	---	e4400	---	764	191	---
TOTAL	23854	13660	10254	7961	7847	24276	50705	176100	77800	19643	9657	5592
MEAN	769	455	331	257	280	783	1690	5681	2593	634	312	186
MAX	2000	625	459	320	351	1700	5200	9500	4200	1000	721	295
MIN	428	324	163	140	210	256	700	3400	1100	382	191	156
AC-FT	47310	27090	20340	15790	15560	48150	100600	349300	154300	38960	19150	11090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

MEAN	478	774	856	585	875	1254	2925	6814	5966	1707	437	291
MAX	792	2384	3111	1154	2824	1803	4002	9703	8782	2587	575	354
(WY)	1996	1996	1996	1996	1996	1996	1996	1997	1996	1996	1995	1997
MIN	225	342	331	257	280	783	1690	5681	2593	634	258	186
(WY)	2000	1999	2001	2001	2001	2001	2001	2001	2001	2001	2000	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1995 - 2001	
ANNUAL TOTAL	558651		427349			
ANNUAL MEAN	1526		1171		1906	
HIGHEST ANNUAL MEAN					2921	1996
LOWEST ANNUAL MEAN					1171	2001
HIGHEST DAILY MEAN	8830	May 22	9500	May 15	17300	May 17 1997
LOWEST DAILY MEAN	156	Jan 30	140	Jan 28	120	Dec 21 1998
ANNUAL SEVEN-DAY MINIMUM	203	Aug 26	156	Sep 24	156	Sep 24 2001
ANNUAL RUNOFF (AC-FT)	1108000		847600		1381000	
10 PERCENT EXCEEDS	5090		3480		5410	
50 PERCENT EXCEEDS	562		469		624	
90 PERCENT EXCEEDS	261		207		270	

e Estimated

CLEARWATER RIVER BASIN

13335700 MOOSE CREEK AT MOUTH NEAR MOOSE CREEK RANGER STATION, ID

LOCATION.--Lat 46°07'28", long 114°55'58", Idaho County, Hydrologic Unit 17060302, Selway Bitterroot Wilderness, Nezperce National Forest, on right bank 240 ft upstream from pack bridge, 800 ft upstream of mouth, and 0.8 mi southwest of Moose Creek Ranger Station.

DRAINAGE AREA.--367 mi^2.

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

REVISED RECORDS.--WDR-ID-99-2: 1997 (M).

GAGE.--Water-stage recorder. Elevation of gage is 2,190 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 15,000 ft^3/s May 17, 1997; minimum daily, 32 ft^3/s Dec. 21, 1998, during period of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,470 ft^3/s May 15; minimum daily, 66 ft^3/s Sept. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	932	321	180	145	148	137	618	2600	2370	606	248	79
2	741	292	155	137	137	152	598	2010	2250	561	197	78
3	410	281	185	140	135	133	556	1760	1920	520	177	77
4	320	292	172	140	134	130	526	1710	1870	487	165	76
5	276	304	168	142	154	134	504	1860	1680	468	159	76
6	247	281	160	143	146	143	502	1700	1900	451	151	86
7	229	252	150	116	136	173	492	1700	1820	415	142	86
8	214	267	152	80	122	207	485	1920	1740	391	135	84
9	202	274	167	e85	e110	260	452	2250	1890	369	129	82
10	193	173	163	e100	e120	248	442	2460	1800	352	124	79
11	188	245	147	e140	e120	226	433	2640	1660	329	119	77
12	188	241	e70	145	125	212	424	3210	1780	323	115	76
13	295	183	e80	146	129	214	411	4240	1580	307	111	74
14	419	188	e90	142	121	241	393	4460	1500	293	107	75
15	393	244	e130	137	126	224	384	5470	1460	278	105	73
16	326	242	149	131	124	225	404	4590	1360	316	102	72
17	304	214	164	127	124	217	479	3580	1320	317	100	74
18	296	195	173	122	126	221	599	3220	1240	282	97	73
19	343	157	159	138	129	348	748	2930	1160	288	95	70
20	340	157	149	133	129	508	705	2980	1110	262	94	69
21	485	178	149	129	135	455	655	2780	1070	266	92	69
22	443	179	160	133	147	459	631	3040	1030	239	91	68
23	389	160	167	123	153	502	652	3680	975	224	90	68
24	373	218	169	117	145	615	772	4510	893	212	89	67
25	355	227	164	143	138	796	1090	5220	824	201	88	66
26	339	209	156	129	133	810	1570	4910	765	190	87	69
27	337	196	151	110	123	707	2280	4330	740	182	85	69
28	329	191	151	82	108	686	2710	3910	874	173	83	68
29	360	172	142	89	---	684	2370	3340	721	169	82	67
30	350	193	147	155	---	663	2430	2660	656	177	81	67
31	320	---	148	148	---	624	---	2450	---	257	80	---
TOTAL	10936	6726	4667	3947	3677	11354	25315	98120	41958	9905	3620	2214
MEAN	353	224	151	127	131	366	844	3165	1399	320	117	73.8
MAX	932	321	185	155	154	810	2710	5470	2370	606	248	86
MIN	188	157	70	80	108	130	384	1700	656	169	80	66
AC-FT	21690	13340	9260	7830	7290	22520	50210	194600	83220	19650	7180	4390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

MEAN	251	509	534	356	445	618	1599	4219	3752	933	211	128
MAX	499	1614	1960	665	1395	896	2290	7061	6043	1512	305	190
(WY)	1996	1996	1996	1996	1996	1996	2000	1997	1997	1997	1997	1997
MIN	111	178	151	127	131	366	844	3165	1399	320	117	73.8
(WY)	1999	1999	2001	2001	2001	2001	2001	2001	2001	2001	2000	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1995 - 2001	
ANNUAL TOTAL	335908		222439			
ANNUAL MEAN	918		609		1128	
HIGHEST ANNUAL MEAN					1670	1996
LOWEST ANNUAL MEAN					609	2001
HIGHEST DAILY MEAN	5840	May 22	5470	May 15	15000	May 17 1997
LOWEST DAILY MEAN	70	Dec 12	66	Sep 25	32	Dec 21 1998
ANNUAL SEVEN-DAY MINIMUM	89	Aug 25	68	Sep 24	68	Sep 24 2001
ANNUAL RUNOFF (AC-FT)	666300		441200		817500	
10 PERCENT EXCEEDS	3220		1860		3010	
50 PERCENT EXCEEDS	289		212		341	
90 PERCENT EXCEEDS	114		85		116	

e Estimated

CLEARWATER RIVER BASIN

13336500 SELWAY RIVER NEAR LOWELL, ID

LOCATION.--Lat 46°05'12", long 115°30'46", in NW¼SE¼NE¼ sec.25, T.32 N., R.7 E., Idaho County, Nez Perce National Forest, Hydrologic Unit 17060302, on right bank 0.2 mi upstream from O'Hara Creek, 7 mi upstream from Lowell, 7.6 mi upstream from confluence with Lochsa River, and 105.2 mi upstream from mouth of Clearwater River.

DRAINAGE AREA.--1,910 mi^2, approximately. Mean elevation, 5,640 ft.

PERIOD OF RECORD.--April 1911 to September 1912 (gage heights or fragmentary discharge records only), October 1929 to current year. Monthly discharge only for October 1929, published in WSP 1317.

REVISED RECORDS.--WSP 1043: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,540 ft above sea level, from river-profile map. Apr. 11 to Sept. 2, 1911, recording gage at site 2 mi downstream at different datum. Feb. 7 to Sept. 22, 1912, and Oct. 14 to Nov. 19, 1930, nonrecording gages at nearby sites at different datums.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,900 ft^3/s May 29, 1948, gage height, 16.04 ft; minimum, probably less than 100 ft^3/s Jan. 8, 1937, during period of ice effect.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 18,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	0715	*19,300	*9.79	No other peak greater than base discharge.			

Minimum daily, 380 ft^3/s Jan. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4070	1400	884	743	758	689	3250	10700	8840	2680	1540	495
2	4220	1320	792	708	740	853	3160	8630	8700	2470	1160	488
3	2200	1250	787	696	709	831	2910	7520	7640	2290	1020	486
4	1620	1260	856	719	720	770	2670	7090	7790	2140	952	478
5	1370	1330	810	739	868	778	2480	7510	6750	2050	919	474
6	1210	1270	800	741	899	831	2390	7070	7210	1990	877	515
7	1110	1190	737	e600	818	970	2280	6900	7190	1860	835	623
8	1040	1140	732	e480	711	1190	2230	7560	6910	1750	803	571
9	979	1170	758	e480	657	1480	2040	8820	7550	1660	776	535
10	933	1050	819	e550	708	1560	1940	9640	7450	1600	753	515
11	935	918	769	e700	e700	1430	1900	10200	7050	1500	731	496
12	963	1050	590	759	699	1300	1920	11400	7270	1510	711	481
13	1620	970	545	722	707	1250	1830	14400	6690	1480	695	471
14	2280	845	819	725	682	1360	1770	15700	6190	1420	680	467
15	2140	994	927	702	677	1290	1720	17700	6040	1340	665	468
16	1720	1070	917	678	694	1250	1790	16100	5700	1510	649	459
17	1570	1020	953	649	686	1210	2040	13400	5560	1570	629	486
18	1530	929	e900	617	691	1190	2560	12100	5320	1390	615	476
19	1620	879	e850	673	711	1460	3240	10800	4990	1400	599	457
20	1710	865	e800	710	735	2230	3260	10900	4780	1330	591	442
21	2220	1020	e750	673	786	2260	3060	10200	4630	1310	583	437
22	2290	994	e800	702	860	2250	2870	10500	4560	1220	575	432
23	1910	832	853	696	925	2400	2850	11900	4390	1130	574	428
24	1780	896	859	641	908	2870	3210	14000	4070	1080	566	422
25	1690	1020	809	680	862	3820	4380	15500	3730	1040	555	417
26	1590	957	771	697	819	4160	6300	15500	3420	997	546	419
27	1530	946	746	645	787	3630	9190	14200	3260	961	532	422
28	1490	900	753	527	716	3460	11400	13200	3770	927	520	423
29	1520	821	729	e380	---	3470	10500	12100	3260	904	512	423
30	1550	874	717	e480	---	3360	9740	9930	2900	923	508	420
31	1420	---	751	e650	---	3120	---	8980	---	1250	500	---
TOTAL	53830	31180	24583	20162	21233	58722	110880	350150	173610	46682	22171	14126
MEAN	1736	1039	793	650	758	1894	3696	11300	5787	1506	715	471
MAX	4220	1400	953	759	925	4160	11400	17700	8840	2680	1540	623
MIN	933	821	545	380	657	689	1720	6900	2900	904	500	417
AC-FT	106800	61850	48760	39990	42120	116500	219900	694500	344400	92590	43980	28020
CFSM	.91	.54	.42	.34	.40	.99	1.94	5.91	3.03	.79	.37	.25
IN.	1.05	.61	.48	.39	.41	1.14	2.16	6.82	3.38	.91	.43	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2001, BY WATER YEAR (WY)

MEAN	970	1292	1427	1263	1542	2251	5998	13330	11780	3127	919	748
MAX	4932	5696	7441	3710	6647	6240	13210	22430	24370	8990	1968	2174
(WY)	1960	1996	1996	1934	1996	1934	1934	1949	1974	1975	1975	1968
MIN	366	399	456	325	420	692	2098	7950	2948	918	441	403
(WY)	1988	1937	1953	1937	1937	1955	1973	1977	1987	1934	1934	1934

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1911 - 2001	
ANNUAL TOTAL	1241881		927329			
ANNUAL MEAN	3393		2541		3729	
HIGHEST ANNUAL MEAN					6159	1996
LOWEST ANNUAL MEAN					2096	1973
HIGHEST DAILY MEAN	17700	May 23	17700	May 15	45300	May 29 1948
LOWEST DAILY MEAN	506	Aug 31	380	Jan 29	150	Nov 28 1952
ANNUAL SEVEN-DAY MINIMUM	543	Aug 26	421	Sep 24	210	Jan 1 1937
ANNUAL RUNOFF (AC-FT)	2463000		1839000		2702000	
ANNUAL RUNOFF (CFSM)	1.78		1.33		1.95	
ANNUAL RUNOFF (INCHES)	24.19		18.06		26.53	
10 PERCENT EXCEEDS	10800		7510		11000	
50 PERCENT EXCEEDS	1360		1020		1400	
90 PERCENT EXCEEDS	658		530		570	

e Estimated

CLEARWATER RIVER BASIN

13337000 LOCHSA RIVER NEAR LOWELL, ID

LOCATION.--Lat 46°09'02", long 115°35'11", in SW¼SW¼SE¼ sec.33, T.33 N., R.7 E., Idaho County, Clearwater National Forest, Hydrologic Unit 17060303, on right bank, 0.7 mi upstream from Lowell, 0.9 mi upstream from confluence with Selway River, 1.2 mi downstream from Pete King Creek, and 19 mi east of Kooskia.

DRAINAGE AREA.--1,180 mi^2, approximately. Mean elevation, 5,250 ft.

PERIOD OF RECORD.--October 1910 to September 1912, October 1929 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is 1,452.98 ft above sea level. Prior to Nov. 21, 1930, nonrecording gages at site 1 mi upstream at different datums.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,100 ft^3/s June 8, 1964, gage height, 13.50 ft, from rating curve extended above 17,000 ft^3/s; minimum, probably less than 100 ft^3/s Jan. 8, 1937, during period of ice effect.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	0815	*14,600	*8.67

No other peak greater than base discharge.

Minimum daily, 274 ft^3/s Sept. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2390	931	641	541	554	496	2340	8530	5890	2060	925	341
2	3070	895	588	524	540	559	2210	6720	5750	1900	797	336
3	1690	828	571	522	519	568	2010	5740	5120	1760	711	332
4	1160	844	617	522	523	558	1840	5440	5820	1640	666	326
5	956	926	581	533	655	556	1710	5830	4960	1580	642	322
6	847	877	576	548	661	579	1670	5500	5190	1550	619	320
7	776	819	548	515	e550	667	1620	5330	5250	1440	591	328
8	727	770	535	e380	e480	786	1590	5710	5040	1340	568	342
9	689	818	531	e400	e460	1010	1480	6430	5660	1260	548	345
10	658	701	559	460	e480	1030	1410	6940	5630	1200	533	336
11	648	605	546	573	e500	949	1370	7180	4960	1140	515	324
12	651	700	e420	576	504	869	1360	8150	5600	1160	501	318
13	1010	668	471	554	505	842	1320	10100	5190	1120	489	311
14	1420	647	551	544	489	950	1260	10600	4800	1060	477	306
15	1320	626	630	524	512	896	1210	13600	4600	1010	469	301
16	1110	676	637	512	485	870	1250	12600	4250	1020	457	297
17	985	706	660	488	479	843	1490	10200	4070	1090	442	302
18	935	655	614	478	495	835	1840	9080	3860	1030	431	299
19	1020	605	606	506	503	1230	2350	8060	3630	1010	419	296
20	1060	572	585	513	518	1920	2380	7960	3460	978	411	294
21	1510	555	578	498	531	1750	2230	7280	3350	947	406	290
22	1520	561	565	506	560	1660	2110	7420	3270	917	400	287
23	1240	540	625	505	594	1740	2150	8460	3140	853	399	284
24	1120	567	650	477	597	2010	2430	9830	2930	809	395	282
25	1060	659	616	478	579	2520	3290	11000	2740	774	388	275
26	1000	681	580	497	550	2680	4600	10800	2540	741	378	274
27	974	677	568	e420	524	2400	6430	9820	2440	712	372	278
28	949	648	568	e380	480	2430	7850	9190	3040	686	362	278
29	994	604	555	e340	---	2480	7030	8280	2580	672	356	282
30	1030	614	537	460	---	2360	7150	6800	2260	677	352	282
31	959	---	534	535	---	2210	---	6070	---	842	346	---
TOTAL	35478	20975	17843	15309	14827	41253	78980	254650	127020	34978	15365	9188
MEAN	1144	699	576	494	530	1331	2633	8215	4234	1128	496	306
MAX	3070	931	660	576	661	2680	7850	13600	5890	2060	925	345
MIN	648	540	420	340	460	496	1210	5330	2260	672	346	274
AC-FT	70370	41600	35390	30370	29410	81830	156700	505100	251900	69380	30480	18220
CFSM	.97	.59	.49	.42	.45	1.13	2.23	6.96	3.59	.96	.42	.26
IN.	1.12	.66	.56	.48	.47	1.30	2.49	8.03	4.00	1.10	.48	.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2001, BY WATER YEAR (WY)

MEAN	750	1086	1237	1107	1292	1834	4849	10160	8304	2184	671	558
MAX	3476	4942	6183	4245	5132	5250	10750	17290	19710	6098	1462	1602
(WY)	1960	1996	1996	1934	1996	1934	1934	1997	1974	1975	1975	1968
MIN	261	289	330	251	325	597	1852	5293	2226	734	326	278
(WY)	1988	1953	1953	1937	1937	1955	1975	1941	1987	1931	1940	1988

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1911 - 2001	
ANNUAL TOTAL	921632		665866			
ANNUAL MEAN	2518		1824		2838	
HIGHEST ANNUAL MEAN					4498	1996
LOWEST ANNUAL MEAN					1495	1977
HIGHEST DAILY MEAN	12400	May 23	13600	May 15	31900	May 29 1948
LOWEST DAILY MEAN	348	Aug 31	274	Sep 26	110	Nov 28 1952
ANNUAL SEVEN-DAY MINIMUM	364	Aug 25	279	Sep 24	156	Nov 25 1952
ANNUAL RUNOFF (AC-FT)	1828000		1321000		2056000	
ANNUAL RUNOFF (CFSM)	2.13		1.55		2.40	
ANNUAL RUNOFF (INCHES)	29.05		20.99		32.68	
10 PERCENT EXCEEDS	8130		5640		8200	
50 PERCENT EXCEEDS	982		706		1130	
90 PERCENT EXCEEDS	474		376		428	

e Estimated

CLEARWATER RIVER BASIN

13338500 SOUTH FORK CLEARWATER RIVER AT STITES, ID

LOCATION.--Lat 46°05'12", long 115°58'32", in NE¼SE¼NE¼ sec.29, T.32 N., R.4 E., Idaho County, Hydrologic Unit 17060305, on left bank at Stites, 0.4 mi upstream from county road bridge, 0.4 mi downstream from Cottonwood Creek, and at mile 4.0.

DRAINAGE AREA.--1,150 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to April 1912, October 1964 to current year. Published as "at Kooskia," 1910-12.

REVISED RECORDS.--WSP 1317: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,311.99 ft above sea level. October 1910 to April 1912, nonrecording gage 3.6 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. No regulation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,100 ft^3/s Feb. 7, 1996, gage height, 8.82 ft; minimum, 48 ft^3/s Nov. 30, 1987, gage height, 2.39 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 8, 1964, reached a stage of 10.3 ft, from floodmarks, present site and datum, discharge, 17,500 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,800 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	0200	*4,970	*6.24	May 15	0915	4,330	5.94

Minimum, 113 ft^3/s Sept. 26, gage height, 2.80 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1280	492	328	290	277	311	1910	4460	1420	768	447	142
2	968	473	303	e260	280	393	2120	3500	1370	717	356	140
3	505	437	298	e240	283	388	2070	2950	1320	675	312	139
4	369	428	303	270	308	368	1880	2700	1980	633	288	136
5	317	452	298	280	709	388	1580	2760	1950	633	289	136
6	282	438	285	284	572	443	1460	2540	1890	634	284	136
7	261	403	272	225	450	502	1620	2360	1800	596	264	162
8	245	386	265	e190	338	603	1560	2430	1740	554	248	156
9	232	400	274	e220	319	1040	1310	2600	1830	520	238	144
10	223	373	285	e260	346	897	1150	2600	1680	497	229	141
11	223	312	263	282	323	756	1120	2580	1650	468	221	136
12	274	340	e200	288	308	669	1450	2780	2280	470	213	132
13	1020	316	186	275	311	630	1290	3220	2370	494	209	130
14	1410	274	e260	273	275	646	1100	3310	2170	464	203	130
15	997	344	e300	270	295	579	1000	3960	1940	449	198	131
16	685	333	275	259	284	618	987	3770	1710	564	190	129
17	558	304	292	231	284	595	1100	3270	1570	703	183	130
18	494	297	e260	e220	291	562	1280	2940	1450	549	177	139
19	473	281	e260	e240	319	654	1690	2630	1350	500	172	133
20	462	259	e260	264	341	992	1750	2440	1270	490	169	126
21	852	283	e240	264	381	1020	1660	2160	1190	448	168	124
22	930	305	e260	285	503	968	1520	2070	1130	440	166	124
23	689	259	287	306	500	1010	1530	2140	1070	404	166	121
24	629	290	e320	315	454	1180	1760	2260	1000	375	168	121
25	587	329	e320	316	443	1550	2220	2380	950	355	165	118
26	549	324	e300	305	417	1990	2890	2320	907	339	161	115
27	540	330	305	281	364	1680	3720	2160	874	326	157	118
28	525	321	311	e240	306	1590	4180	2050	1220	311	152	120
29	549	288	302	e190	---	1870	3880	1890	944	302	148	121
30	595	320	e280	e220	---	1780	3610	1610	826	307	146	124
31	522	---	e280	e240	---	1630	---	1470	---	404	145	---
TOTAL	18245	10391	8672	8083	10281	28302	56397	82310	44851	15389	6632	3954
MEAN	589	346	280	261	367	913	1880	2655	1495	496	214	132
MAX	1410	492	328	316	709	1990	4180	4460	2370	768	447	162
MIN	223	259	186	190	275	311	987	1470	826	302	145	115
AC-FT	36190	20610	17200	16030	20390	56140	111900	163300	88960	30520	13150 -	7840
CFSM	.51	.30	.24	.23	.32	.79	1.63	2.31	1.30	.43	.19	.11
IN.	.59	.34	.28	.26	.33	.92	1.82	2.66	1.45	.50	.21	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2001, BY WATER YEAR (WY)

MEAN	288	360	453	527	639	992	2070	3258	2447	806	287	242
MAX	677	893	2365	1665	2211	2387	3549	5528	5706	2063	528	473
(WY)	1976	1969	1976	1969	1996	1978	1978	1976	1975	1975	1975	1968
MIN	108	139	167	144	227	312	807	947	463	314	137	114
(WY)	1988	1988	1988	1988	1994	1977	1973	1992	1992	1973	1973	1987

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1912 - 2001	
ANNUAL TOTAL	257157		293507			
ANNUAL MEAN	703		804		1030	
HIGHEST ANNUAL MEAN					1711	1976
LOWEST ANNUAL MEAN					451	1992
HIGHEST DAILY MEAN	3320	May 10	4460	May 1	9400	May 29 1912
LOWEST DAILY MEAN	118	Aug 31	115	Sep 26	60	Nov 30 1987
ANNUAL SEVEN-DAY MINIMUM	128	Aug 18	119	Sep 23	87	Dec 29 1987
ANNUAL RUNOFF (AC-FT)	510100		582200		746000	
ANNUAL RUNOFF (CFSM)	.61		.70		.90	
ANNUAL RUNOFF (INCHES)	8.32		9.49		12.17	
10 PERCENT EXCEEDS	1900		2090		2780	
50 PERCENT EXCEEDS	386		388		458	
90 PERCENT EXCEEDS	174		164		187	

e Estimated

WATER-QUALITY DATA

PERIOD OF RECORD.--Water years 1973-1981, 1990, 1993, 1996, April to September 1998, April to September 2001 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to September 1998, April to September 2001 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 27.0 °C Aug. 7, 2001.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 27.0 °C Aug. 7.

WATER-QUALITY DATA, APRIL TO SEPTEMBER 2001

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)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	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)
APR										
11...	1630	1130	70	7.9	11.5	6.6	16	12.4	107	120
MAY										
10...	1550	2570	30	7.6	23.0	10.4	5.2	11.1	105	S11
JUN										
07...	1445	1790	30	7.4	20.0	10.0	3.4	11.6	107	45
JUL										
12...	1030	454	39	7.9	24.5	20.8	3.3	9.1	106	78
AUG										
08...	1200	249	46	8.4	30.5	22.2	2.2	9.4	113	25
SEP										
19...	1200	136	59	8.4	19.0	15.1	3.5	10.9	114	25

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)	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)
SEP													
19...	21.4	5.81	1.66	4.0	27.4	1.15	33	0	27	1.7	.9	<.2	13.6

DATE	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR										
11...	--	--	--	.006	.30	.387	.033	.074	9	27
MAY										
10...	--	--	--	.004	.12	.017	.009	.032	9	62
JUN										
07...	--	--	--	.005	.14	.009	.008	.027	6	29
JUL										
12...	--	--	--	<.002	.18	.007	E.006	.020	3	3.7
AUG										
08...	--	--	--	.002	.21	<.005	E.005	.015	2	1.3
SEP										
19...	45.1	.061	17	.004	.22	.010	E.006	.016	1	.37

E Estimated value
S Most probable value

CLEARWATER RIVER BASIN

13338500 SOUTH FORK CLEARWATER RIVER AT STITES, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	7.4	5.7	6.5
2	---	---	---	---	---	---	---	---	---	6.8	5.4	5.9
3	---	---	---	---	---	---	---	---	---	8.3	4.8	6.3
4	---	---	---	---	---	---	---	---	---	10.1	6.8	8.2
5	---	---	---	---	---	---	---	---	---	9.9	7.9	9.0
6	---	---	---	---	---	---	---	---	---	9.3	6.3	7.7
7	---	---	---	---	---	---	---	---	---	9.9	6.8	8.2
8	---	---	---	---	---	---	---	---	---	9.7	8.2	8.8
9	---	---	---	---	---	---	---	---	---	10.7	8.5	9.3
10	---	---	---	---	---	---	---	---	---	10.8	8.3	9.4
11	---	---	---	---	---	---	---	---	---	10.8	8.3	9.4
12	---	---	---	---	---	---	7.3	5.1	6.0	11.0	9.0	9.9
13	---	---	---	---	---	---	6.6	5.1	5.7	10.2	9.1	9.9
14	---	---	---	---	---	---	8.5	4.0	6.0	9.1	8.3	8.7
15	---	---	---	---	---	---	9.6	4.6	7.0	9.1	8.5	8.8
16	---	---	---	---	---	---	10.2	5.6	7.8	10.1	8.5	9.1
17	---	---	---	---	---	---	10.1	7.0	8.4	9.0	7.6	8.3
18	---	---	---	---	---	---	10.4	7.3	8.3	10.2	8.3	9.1
19	---	---	---	---	---	---	8.7	6.5	7.5	10.1	8.0	9.0
20	---	---	---	---	---	---	6.8	5.4	6.1	11.8	9.3	10.1
21	---	---	---	---	---	---	7.6	5.6	6.5	11.3	8.2	9.6
22	---	---	---	---	---	---	8.5	5.2	6.5	13.2	9.3	10.9
23	---	---	---	---	---	---	9.0	6.5	7.5	14.2	11.0	12.4
24	---	---	---	---	---	---	10.7	7.3	8.7	15.0	12.2	13.4
25	---	---	---	---	---	---	10.5	7.9	9.0	15.3	13.0	14.1
26	---	---	---	---	---	---	9.1	7.6	8.5	15.0	12.9	13.8
27	---	---	---	---	---	---	9.4	7.4	8.4	14.4	12.5	13.3
28	---	---	---	---	---	---	8.2	6.0	7.0	13.9	12.1	12.8
29	---	---	---	---	---	---	6.6	5.4	6.1	14.4	11.8	12.8
30	---	---	---	---	---	---	7.6	6.3	6.9	13.3	10.2	11.7
31	---	---	---	---	---	---	---	---	---	15.8	10.8	13.1
MONTH	---	---	---	---	---	---	---	---	---	15.8	4.8	10.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.3	12.7	14.3	22.8	17.1	19.8	21.6	14.7	18.0	23.1	16.5	19.9
2	15.0	12.2	13.8	23.5	17.6	20.5	24.4	16.5	20.1	23.0	16.8	20.1
3	12.2	9.6	10.7	24.2	17.6	20.8	24.4	18.1	21.1	23.5	16.5	20.1
4	9.6	7.6	8.4	24.9	19.3	21.9	23.0	18.5	20.8	23.3	16.1	20.0
5	8.0	7.0	7.5	22.6	20.3	21.2	25.0	17.3	21.0	21.0	16.8	18.3
6	11.4	7.9	9.5	22.3	18.1	20.1	26.3	18.5	22.3	20.0	14.6	17.4
7	11.4	9.6	10.2	22.5	16.6	19.6	27.0	19.7	23.2	18.4	14.1	16.5
8	13.3	9.6	11.3	23.8	18.1	20.6	26.8	20.2	23.4	19.0	11.9	15.5
9	14.9	12.2	13.3	25.4	18.9	22.0	26.4	19.2	22.6	19.3	11.8	15.7
10	13.3	11.6	12.8	26.4	19.8	22.9	26.4	19.2	22.7	18.7	12.5	15.8
11	13.0	10.5	11.6	25.4	19.8	22.5	25.9	19.2	22.6	20.5	12.9	16.6
12	11.8	9.7	11.0	26.1	20.3	22.8	26.4	19.3	22.9	21.3	14.2	17.7
13	9.7	8.3	8.9	22.8	20.2	21.4	25.2	20.8	23.2	21.3	16.1	18.8
14	11.0	7.9	9.2	24.9	18.4	21.5	26.8	20.3	23.5	22.3	15.5	18.9
15	13.6	9.7	11.5	23.8	19.7	21.4	26.8	20.2	23.5	22.0	15.3	18.9
16	14.7	10.8	12.7	21.0	17.7	19.3	26.6	19.5	23.0	21.3	15.3	18.6
17	14.4	11.6	13.0	18.7	15.7	17.0	25.2	19.2	22.4	22.0	15.5	18.8
18	15.2	10.8	12.9	19.0	14.6	16.7	24.9	18.5	21.8	20.8	15.3	18.4
19	15.8	11.3	13.4	22.5	15.7	18.6	24.0	17.4	20.8	19.3	13.8	16.8
20	17.3	12.1	14.4	23.1	17.1	19.6	23.1	16.5	20.0	19.0	12.2	15.8
21	18.9	13.5	15.9	22.5	18.1	20.1	23.0	16.1	19.7	17.3	12.2	15.2
22	20.3	15.0	17.4	24.0	17.1	20.2	20.5	16.3	18.5	18.7	11.9	15.4
23	20.8	16.1	18.2	24.7	17.4	20.8	22.1	16.1	18.8	19.3	12.4	16.0
24	17.9	15.2	16.5	24.9	18.1	21.3	23.1	17.4	20.1	19.7	13.5	16.7
25	17.7	13.6	15.6	25.4	18.4	21.7	23.3	15.5	19.4	17.6	13.3	15.1
26	19.0	14.6	16.3	25.6	18.4	21.7	24.2	15.8	20.0	18.2	13.0	15.6
27	19.0	15.8	17.0	25.6	18.2	21.7	24.5	17.3	21.0	18.2	14.1	16.1
28	19.5	15.8	17.3	22.3	18.5	20.4	23.0	17.3	20.5	16.8	14.4	15.4
29	21.6	15.8	18.4	20.2	17.3	18.6	24.4	16.5	20.4	16.8	11.1	14.1
30	21.6	16.8	19.1	18.1	16.5	17.4	24.4	16.8	20.7	16.5	10.1	13.5
31	---	---	---	21.5	15.5	17.9	22.8	17.4	20.3	---	---	---
MONTH	21.6	7.0	13.4	26.4	14.6	20.4	27.0	14.7	21.2	23.5	10.1	17.1

CLEARWATER RIVER BASIN

13339500 LOLO CREEK NEAR GREER, ID

LOCATION.--Lat 46°22'20", long 116°09'40", in NE¼SE¼SE¼ sec.14, T.35 N., R.2 E., Idaho County, Hydrologic Unit 17060306, on left bank, upstream side of county road bridge 2,000 ft upstream from mouth, 1.35 mi southeast of Greer, and 8.5 mi southeast of Orofino.

DRAINAGE AREA.--243 mi^2.

PERIOD OF RECORD.--October 1979 to current year. Daily record, December 1911 to December 1912, published in WSP 332. Miscellaneous streamflow measurements made 1928, 1929, and 1964 are published in Miscellaneous Streamflow Measurements in Idaho, 1894-1967.

GAGE.--Water-stage recorder. Elevation of gage is 1,120 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,990 ft^3/s Feb. 9, 1996, gage height, 17.01 ft; minimum daily, 15 ft^3/s Nov. 27, 30, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 29	0330	1,240	11.98	May 1	1030	*1,950	*13.13

Minimum daily, 21 ft^3/s Sept. 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	322	88	78	76	72	113	1060	1780	224	151	112	27
2	338	89	74	68	74	122	939	1260	212	140	80	26
3	145	81	77	71	73	114	774	973	206	130	69	26
4	97	78	75	73	81	109	675	845	726	123	64	25
5	79	87	73	72	145	116	569	820	813	120	60	25
6	68	94	69	69	174	141	523	730	584	123	58	25
7	62	88	63	50	155	194	515	653	462	115	55	25
8	58	84	69	e60	e100	259	501	625	391	107	51	25
9	55	89	64	e80	e95	399	469	601	380	100	49	25
10	52	72	68	e85	e100	394	428	580	347	95	46	25
11	54	71	58	83	e100	348	429	555	308	90	44	24
12	55	76	e40	79	e95	311	469	558	466	94	43	23
13	97	49	e50	76	e90	335	494	597	656	102	44	23
14	240	50	e70	74	e80	435	464	574	522	92	43	22
15	156	82	80	e65	e85	360	422	898	435	88	41	22
16	115	66	62	e60	90	351	420	912	374	101	39	21
17	94	74	79	e55	87	300	497	779	331	120	37	23
18	83	66	61	e60	87	317	625	649	303	105	35	28
19	93	58	65	e65	88	580	743	556	276	94	33	25
20	114	79	62	69	91	807	733	506	253	92	32	24
21	209	118	62	69	101	680	637	445	233	101	32	23
22	224	124	74	75	108	581	574	415	215	99	32	23
23	143	82	81	79	128	555	592	400	200	85	33	23
24	118	71	94	78	131	600	645	387	187	77	33	23
25	104	74	98	82	127	758	747	376	181	73	32	22
26	94	74	92	78	118	979	888	354	175	68	31	23
27	88	78	89	76	106	808	995	328	169	65	30	25
28	84	82	85	e60	98	925	1090	316	218	62	29	26
29	90	76	81	e55	---	1120	1040	290	208	61	28	27
30	109	78	79	e70	---	905	1040	259	166	64	28	28
31	93	---	77	75	---	816	---	239	---	83	27	---
TOTAL	3733	2378	2249	2187	2879	14832	19997	19260	10221	3020	1370	732
MEAN	120	79.3	72.5	70.5	103	478	667	621	341	97.4	44.2	24.4
MAX	338	124	98	85	174	1120	1090	1780	813	151	112	28
MIN	52	49	40	50	72	109	420	239	166	61	27	21
AC-FT	7400	4720	4460	4340	5710	29420	39660	38200	20270	5990	2720	1450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2001, BY WATER YEAR (WY)

MEAN	79.1	167	185	221	427	632	883	758	406	141	57.7	59.2
MAX	174	708	810	631	1487	1201	1746	2119	1158	322	107	171
(WY)	1996	1996	1996	1996	1996	1986	1997	1912	1912	1997	1993	1985
MIN	28.3	43.2	69.6	59.9	76.0	276	445	187	80.9	64.0	25.7	24.4
(WY)	1992	1988	1988	1988	1985	1985	1992	1992	1992	1988	1988	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1912 - 2001	
ANNUAL TOTAL	106392		82858			
ANNUAL MEAN	291		227		323	
HIGHEST ANNUAL MEAN					613	1996
LOWEST ANNUAL MEAN					182	1992
HIGHEST DAILY MEAN	1360	Apr 14	1780	May 1	5410	Feb 9 1996
LOWEST DAILY MEAN	20	Aug 31	21	Sep 16	15	Nov 27 1988
ANNUAL SEVEN-DAY MINIMUM	22	Aug 26	23	Sep 11	17	Nov 26 1988
ANNUAL RUNOFF (AC-FT)	211000		164300		234100	
10 PERCENT EXCEEDS	819		640		846	
50 PERCENT EXCEEDS	120		92		152	
90 PERCENT EXCEEDS	35		32		45	

e Estimated

CLEARWATER RIVER BASIN

13340000 CLEARWATER RIVER AT OROFINO, ID

LOCATION.--Lat 46°28'43", long 116°15'23", in SW¼SE¼NW¼ sec.7, T.36 N., R.2 E., Clearwater County, Hydrologic Unit 17060306, on right bank 56 ft upstream from State Highway 7 bridge at Orofino, and at mile 44.6.

DRAINAGE AREA.--5,580 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to September 1938, October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 990.80 ft above sea level (levels by Idaho Department of Highways). Prior to Sept. 30, 1938, nonrecording gage at site 0.1 mi downstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 87,300 ft^3/s June 2, 1972, gage height, 18.84 ft, present datum; minimum observed, probably less than 250 ft^3/s Jan. 8, 1937, during period of ice effect; minimum gage height, 1.96 ft, Nov. 30, 1979.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 8, 1964, reached a stage of 20.32 ft, present site and datum, discharge, 99,700 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30,000 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	1130	32,000	11.12	May 15	1430	*42,000	*12.72
				May 26	1030	33,700	11.42

Minimum daily, 944 ft^3/s Sept. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5270	3460	2350	2060	2150	2200	11500	29900	17300	6540	3300	1130
2	10800	3400	2310	2010	2080	2360	11200	24100	17000	6070	3060	1120
3	6750	3150	2120	1940	2080	2630	10700	20300	15500	5670	2530	1100
4	4390	3010	2160	1930	2110	2490	9790	18300	17800	5300	2300	1090
5	3450	3210	2230	1980	3140	2460	8830	18500	16700	5030	2170	1080
6	2980	3290	2120	2030	3780	2680	8200	18000	15700	4970	2110	1060
7	2690	3060	2070	1920	3220	3100	8240	16900	16100	4720	2020	1110
8	2510	2910	1980	1560	2700	3810	8260	17400	15200	4380	1920	1270
9	2360	2910	1950	1640	2350	5470	7740	19300	15900	4100	1830	1220
10	2250	2910	2020	1670	2390	6040	7100	21000	16400	3900	1770	1170
11	2190	2430	2070	2160	2340	5490	6910	21700	15200	3700	1720	1130
12	2210	2400	1720	2190	2280	4970	7340	23500	16200	3570	1650	1090
13	2980	2500	1380	2090	2170	4780	7340	28600	17200	3730	1610	1060
14	6300	2160	1500	2030	2090	5320	6790	32000	15400	3500	1580	1040
15	6020	2310	2130	2030	2080	5030	6340	37900	14500	3310	1540	1020
16	4780	2450	2210	1930	2070	4830	6180	36700	13500	3360	1500	1020
17	3970	2500	2160	1850	2040	4510	6650	31700	12700	4020	1470	1020
18	3620	2400	2110	1740	2020	4430	7750	27200	12100	3720	1420	1070
19	3610	2150	2110	1830	2070	5670	9420	24200	11400	3340	1380	1050
20	3930	1950	2120	1940	2180	8350	10200	23400	10700	3360	1350	1010
21	4930	1880	1920	1920	2300	8390	9540	21800	10300	3140	1340	990
22	6490	2150	1970	1960	2590	7730	8920	21300	9970	3110	1320	978
23	5260	2170	2140	2050	2920	7690	8740	23300	9660	2880	1310	968
24	4580	2010	2360	2060	2920	8280	9220	26900	9120	2700	1320	962
25	4250	2300	2430	2010	2860	10200	11100	30300	8510	2570	1290	953
26	3970	2500	2300	2030	2710	12300	14800	31400	7950	2460	1260	944
27	3790	2460	2200	2020	2550	11300	20300	28700	7500	2360	1240	955
28	3670	2470	2160	1890	2330	10900	26000	26900	8510	2280	1210	971
29	3650	2300	2150	1550	---	12100	25500	24500	8310	2200	1180	972
30	3960	2250	2070	1500	---	11200	23300	20700	7120	2190	1160	975
31	3730	---	2040	1980	---	10400	---	18000	---	2420	1150	---
TOTAL	131340	77050	64560	59500	68520	197110	323900	764400	389450	114600	52010	31528
MEAN	4237	2568	2083	1919	2447	6358	10800	24660	12980	3697	1678	1051
MAX	10800	3460	2430	2190	3780	12300	26000	37900	17800	6540	3300	1270
MIN	2190	1880	1380	1500	2020	2200	6180	16900	7120	2190	1150	944
AC-FT	260500	152800	128100	118000	135900	391000	642500	1516000	772500	227300	103200	62540
CFSM	.76	.46	.37	.34	.44	1.14	1.93	4.42	2.33	.66	.30	.19
IN.	.88	.51	.43	.40	.46	1.31	2.16	5.10	2.60	.76	.35	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2001, BY WATER YEAR (WY)

MEAN	2175	3210	3889	4094	5082	7774	15530	28720	24040	6635	2116	1777
MAX	5305	13170	18430	11000	19200	19890	28010	48070	53100	18200	4497	4756
(WY)	1969	1996	1996	1934	1996	1972	1936	1997	1974	1975	1975	1968
MIN	833	925	1124	800	1030	2365	6390	17110	6450	2009	971	860
(WY)	1988	1937	1936	1937	1937	1937	1973	1977	1934	1934	1931	1987

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1931 - 2001	
ANNUAL TOTAL	2891110		2273968			
ANNUAL MEAN	7899		6230		8755	
HIGHEST ANNUAL MEAN					14400	1996
LOWEST ANNUAL MEAN					4741	1977
HIGHEST DAILY MEAN	35700	May 23	37900	May 15	81200	Jun 2 1972
LOWEST DAILY MEAN	1170	Aug 31	944	Sep 26	250	Jan 8 1937
ANNUAL SEVEN-DAY MINIMUM	1230	Aug 26	961	Sep 23	529	Jan 3 1937
ANNUAL RUNOFF (AC-FT)	5735000		4510000		6342000	
ANNUAL RUNOFF (CFSM)	1.42		1.12		1.57	
ANNUAL RUNOFF (INCHES)	19.27		15.16		21.32	
10 PERCENT EXCEEDS	22900		17200		24500	
50 PERCENT EXCEEDS	3640		2710		3750	
90 PERCENT EXCEEDS	1570		1280		1330	

13340000 CLEARWATER RIVER AT OROFINO, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to September 1989, October 1993 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1993 to current year.

INSTRUMENTATION.--Temperature recorder since October 1993.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 29.5 °C July 25, 1994; minimum, 0.0 °C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 27.5 °C Aug. 8, 15-16; minimum, 0.0 °C many times during winter months.

REMARKS.--Temperature record rated good.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.0	12.5	7.5	6.0	2.0	1.5	2.0	.5	2.5	1.0	2.5	.5
2	12.5	11.0	6.0	4.0	2.0	1.0	1.5	.5	2.5	1.5	3.5	2.0
3	12.0	9.5	5.0	3.5	2.5	1.5	1.5	.0	3.0	1.5	4.0	2.0
4	11.5	8.5	4.0	3.0	3.0	1.5	2.5	1.0	3.0	2.0	4.0	2.0
5	11.0	7.5	5.5	4.0	2.5	2.0	2.5	1.5	2.5	1.5	5.0	3.5
6	10.0	6.0	4.5	3.5	2.5	1.0	2.0	.5	2.5	1.5	5.0	2.5
7	10.0	6.0	4.0	2.5	2.0	1.0	1.0	.0	1.5	.5	4.5	2.5
8	10.5	6.5	3.0	2.5	2.0	1.5	1.0	.0	1.0	.5	4.0	2.5
9	10.5	7.0	3.5	2.5	2.5	1.5	1.0	.0	1.5	.5	4.0	3.0
10	10.5	8.5	2.5	1.0	2.0	.5	1.0	.0	2.0	.5	4.0	3.0
11	11.5	9.5	2.5	1.0	1.0	.0	1.0	.0	2.5	1.0	4.5	3.0
12	11.5	9.5	2.5	1.0	.5	.0	1.5	.5	2.0	.5	5.0	3.5
13	10.5	10.0	1.5	.0	.5	.0	1.5	.5	2.5	1.5	5.5	3.5
14	10.5	9.5	1.0	.0	.5	.0	2.0	1.0	2.0	.5	4.5	3.5
15	10.5	9.0	1.5	.0	.5	.0	2.0	1.0	2.5	1.0	4.5	2.5
16	11.0	9.0	1.0	.0	.0	.0	2.0	1.0	3.5	1.5	4.5	4.0
17	11.0	9.0	1.0	.0	.5	.0	1.5	.5	4.0	2.5	5.0	3.0
18	10.5	8.5	.5	.0	.5	.0	1.0	.0	4.5	2.5	5.0	4.0
19	11.0	9.0	1.0	.0	.0	.0	1.0	.5	4.5	2.5	5.0	3.0
20	10.0	9.0	1.0	.0	.5	.0	2.0	.5	4.0	1.5	4.5	2.5
21	10.0	8.0	1.0	.0	.5	.0	2.0	.5	4.5	3.0	5.0	2.5
22	8.0	6.5	.5	.0	.5	.0	2.5	1.5	5.0	3.0	5.0	2.5
23	7.0	5.5	.5	.0	.5	.0	2.5	1.0	4.0	3.0	6.0	3.0
24	6.5	5.0	1.0	.0	.5	.0	2.0	.5	4.0	2.5	6.5	4.0
25	6.5	5.0	2.0	.5	1.0	.5	2.0	1.0	3.5	2.0	6.0	4.5
26	6.5	5.0	2.0	1.0	1.5	.5	2.0	1.5	3.5	1.0	5.0	3.5
27	8.0	6.5	2.5	1.5	2.0	.5	2.0	1.5	3.0	.5	5.5	3.0
28	7.5	6.0	2.0	1.0	2.0	1.0	2.5	.5	2.5	.5	6.0	4.5
29	8.5	7.0	1.5	.5	1.5	.5	1.0	.5	---	---	6.0	4.5
30	7.0	6.0	2.0	.5	1.5	.5	2.5	.5	---	---	6.5	4.5
31	8.0	7.0	---	---	2.0	1.0	3.0	1.0	---	---	5.0	3.5
MONTH	14.0	5.0	7.5	.0	3.0	.0	3.0	.0	5.0	.5	6.5	.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.5	4.0	7.0	6.0	14.5	12.0	22.5	19.5	22.0	17.0	23.5	18.5
2	5.5	4.0	7.0	5.0	14.5	12.5	23.5	19.5	24.0	18.0	23.5	18.0
3	6.0	4.0	8.5	5.0	13.5	11.0	24.0	19.5	24.5	19.5	24.0	18.0
4	6.5	4.0	10.5	7.0	11.0	8.5	25.0	21.5	24.0	19.5	23.5	17.5
5	7.0	3.5	10.0	9.0	9.0	7.5	24.0	21.5	25.0	19.0	20.0	17.5
6	7.0	5.5	9.5	7.0	12.0	8.5	22.5	19.5	26.5	20.0	20.0	15.5
7	6.0	4.5	10.0	7.0	12.0	10.0	23.5	18.5	27.0	21.5	20.0	14.5
8	5.5	4.0	10.0	8.0	13.0	10.5	24.5	20.0	27.5	21.5	19.5	14.0
9	6.0	4.0	10.5	8.5	14.5	12.5	25.0	21.0	27.0	21.0	20.0	13.0
10	6.5	4.5	10.5	8.5	14.5	13.0	26.0	21.5	27.0	21.0	19.0	13.5
11	6.5	5.0	10.5	8.5	13.0	11.5	25.5	22.0	27.0	21.0	20.5	14.5
12	7.0	5.0	10.5	8.5	12.5	11.0	25.5	22.0	27.0	21.0	20.5	15.0
13	7.0	5.0	10.5	9.0	11.0	9.5	24.5	22.0	26.0	22.0	20.5	16.0
14	7.0	4.0	9.0	8.0	11.5	8.5	25.0	20.5	27.0	21.0	21.5	16.0
15	8.5	4.5	8.5	7.5	13.5	10.0	24.0	20.5	27.5	21.0	22.0	16.5
16	9.5	5.5	8.5	7.5	15.0	11.5	21.0	18.5	27.5	21.0	21.0	16.5
17	9.5	7.5	8.5	7.0	14.5	12.5	20.5	16.5	26.5	21.0	22.0	16.5
18	8.5	7.0	9.5	7.5	15.0	12.0	21.5	17.0	25.0	20.0	21.0	16.0
19	9.5	7.0	9.5	7.5	16.0	13.0	23.0	17.5	24.5	18.5	19.5	15.0
20	7.5	5.5	11.0	8.5	16.5	14.0	23.5	18.5	24.0	17.5	19.0	13.5
21	8.5	6.0	10.5	8.5	18.0	15.0	23.5	19.5	24.0	17.5	18.0	13.5
22	9.0	6.0	12.0	8.5	19.0	16.5	24.0	18.5	21.5	18.0	18.5	13.0
23	9.0	7.5	13.0	10.0	19.5	17.5	25.0	19.5	21.5	17.5	18.5	13.5
24	11.5	7.0	13.0	11.0	19.0	16.5	25.5	20.0	23.5	18.0	19.5	14.0
25	12.0	8.0	13.0	11.0	18.5	15.0	26.0	20.0	23.5	16.5	17.0	14.5
26	10.5	9.0	13.0	11.0	18.5	16.5	26.0	20.0	24.5	17.0	17.5	14.0
27	10.5	8.5	12.5	11.0	19.0	17.5	26.0	20.0	25.0	18.0	18.0	14.5
28	10.0	7.0	12.5	11.0	20.0	17.0	23.0	20.0	24.0	18.5	16.5	14.0
29	7.0	6.0	13.0	11.0	21.0	17.5	20.5	18.5	25.0	18.0	17.0	11.5
30	7.5	6.5	12.5	10.0	22.0	18.5	18.5	17.0	24.5	18.0	16.0	10.5
31	---	---	13.5	10.0	---	---	22.5	16.5	24.5	18.5	---	---
MONTH	12.0	3.5	13.5	5.0	22.0	7.5	26.0	16.5	27.5	16.5	24.0	10.5

CLEARWATER RIVER BASIN

13340600 NORTH FORK CLEARWATER RIVER NEAR CANYON RANGER STATION, ID

LOCATION.--Lat 46°50'26", long 115°37'11", in SE¼SE¼NE¼ sec.6, T.40 N., R.7 E., Clearwater County, Hydrologic Unit 17060307, Clearwater National Forest, on left bank immediately upstream from forest road bridge, 0.1 mi upstream from Beaver Creek, 1.7 mi downstream from Canyon Ranger Station, and at mile 58.0.

DRAINAGE AREA.--1,360 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,660.00 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,500 ft^3/s Nov. 30, 1995, gage height, 17.58 ft, from rating curve extended above 29,500 ft^3/s; minimum, 200 ft^3/s Dec. 5, 1972, gage height, 5.00 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	1430	*13,100	*11.98	No other peak greater than base discharge.			

Minimum, 393 ft^3/s Jan. 29, gage height, 5.07 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3670	978	851	748	791	645	2790	10200	5310	1990	1220	603
2	2770	952	770	727	766	839	2620	7830	5150	1870	1050	593
3	1450	904	759	705	714	847	2370	6580	4730	1790	991	589
4	1170	913	781	717	730	768	2150	6110	5690	1720	963	582
5	1040	1040	726	742	921	803	1980	6280	4810	1710	951	576
6	970	976	740	781	947	885	1980	5750	4960	1720	923	577
7	918	916	659	713	834	1030	1930	5530	4610	1620	895	581
8	885	893	641	515	714	1220	1900	5730	4290	1550	872	588
9	859	933	704	544	622	1500	1750	6020	4480	1490	850	589
10	838	771	748	749	710	1460	1690	6380	4270	1440	832	575
11	825	697	702	817	770	1330	1650	6560	3970	1400	814	564
12	809	818	513	779	719	1210	1600	7150	4560	1410	798	554
13	1020	763	482	780	718	1150	1560	8560	4450	1410	786	546
14	1400	723	724	752	669	1260	1490	9220	4110	1350	777	540
15	1160	674	867	719	702	1190	1450	12200	3890	1310	764	534
16	1000	785	758	693	707	1180	1570	12000	3630	1480	744	529
17	934	870	772	659	685	1130	1960	10300	3460	1470	727	555
18	894	810	805	629	714	1120	2440	9150	3300	1360	712	556
19	1020	701	792	685	730	1940	2960	7990	3150	1290	696	542
20	1050	643	732	717	730	3140	2970	7570	3000	1270	692	528
21	1730	666	681	676	752	2490	2770	7010	2880	1350	688	526
22	1530	778	739	698	802	2300	2710	6910	2770	1260	680	519
23	1230	691	811	691	840	2350	2820	7350	2650	1190	687	517
24	1120	707	854	622	832	2600	3190	8180	2530	1140	685	514
25	1060	935	828	653	798	3140	4270	9100	2450	1110	668	502
26	1010	891	791	722	722	3370	5570	9020	2350	1070	656	513
27	988	871	769	637	676	2900	7100	8410	2280	1040	642	527
28	969	817	767	554	596	2800	8420	8000	2740	1010	629	526
29	1070	717	744	448	---	2860	7260	7060	2350	1010	628	543
30	1080	793	722	636	---	2750	8180	6120	2110	1040	625	534
31	980	---	740	788	---	2600	---	5570	---	1230	610	---
TOTAL	37449	24626	22972	21296	20911	54807	93100	239840	110930	43100	24255	16522
MEAN	1208	821	741	687	747	1768	3103	7737	3698	1390	782	551
MAX	3670	1040	867	817	947	3370	8420	12200	5690	1990	1220	603
MIN	809	643	482	448	596	645	1450	5530	2110	1010	610	502
AC-FT	74280	48850	45560	42240	41480	108700	184700	475700	220000	85490	48110	32770
CFSM	.89	.60	.54	.51	.55	1.30	2.28	5.69	2.72	1.02	.58	.40
IN.	1.02	.67	.63	.58	.57	1.50	2.55	6.56	3.03	1.18	.66	.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2001, BY WATER YEAR (WY)

MEAN	1043	1622	1835	1788	2312	3173	6158	10800	8215	2624	1142	934
MAX	2346	6581	8582	5106	8133	7429	9931	20670	20630	4934	1713	1675
(WY)	1969	1996	1996	1974	1996	1986	1990	1997	1974	1975	1975	1968
MIN	551	609	708	665	722	1247	2710	5955	2367	1151	698	551
(WY)	1988	1988	1979	1979	1985	1977	1975	1973	1992	1977	1973	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1967 - 2001	
ANNUAL TOTAL	1153567		709808			
ANNUAL MEAN	3152		1945		3459	
HIGHEST ANNUAL MEAN					5657	1996
LOWEST ANNUAL MEAN					1830	1977
HIGHEST DAILY MEAN	14200	Apr 14	12200	May 15	34200	Nov 30 1995
LOWEST DAILY MEAN	482	Dec 13	448	Jan 29	253	Dec 5 1972
ANNUAL SEVEN-DAY MINIMUM	636	Dec 7	517	Sep 21	446	Dec 4 1972
ANNUAL RUNOFF (AC-FT)	2288000		1408000		2506000	
ANNUAL RUNOFF (CFSM)	2.32		1.43		2.54	
ANNUAL RUNOFF (INCHES)	31.55		19.42		34.56	
10 PERCENT EXCEEDS	9410		5550		9090	
50 PERCENT EXCEEDS	1420		933		1720	
90 PERCENT EXCEEDS	743		600		768	

13340600 NORTH FORK CLEARWATER RIVER NEAR CANYON RANGER STATION, ID--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to 1983, October 1986 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: February 1970 to September 1983, October 1986 to current year.

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 24.0 °C August 8, 1983; minimum, 0.0 °C on many days during winter months.

EXTREMES FOR CURRENT PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 22.0 °C July 12; minimum, 0.0 °C on many days during winter months.

REMARKS.--Temperature record rated excellent, except for the period July 11-Sept. 30, which is rated fair.

WATER TEMPERATURE, DEGREES CELSIUS, OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	6.0	5.5	1.0	.5	.5	.5	.5	.0	.5	.0
2	---	---	5.5	4.5	1.0	.5	.5	.5	.5	.0	.5	.5
3	---	---	4.5	3.5	1.0	.5	.5	.5	.5	.0	1.0	.5
4	---	---	3.5	3.0	1.0	.5	.5	.5	.5	.0	1.5	1.0
5	---	---	3.0	3.0	1.0	.5	1.0	.5	.5	.0	2.5	1.0
6	---	---	3.0	3.0	1.0	.0	1.0	.5	1.0	.5	2.0	1.5
7	---	---	3.0	3.0	.5	.0	1.0	.0	1.0	.5	2.0	1.5
8	---	---	3.0	1.5	.5	.5	.0	.0	.5	.0	2.5	1.5
9	---	---	2.0	1.5	.5	.0	.0	.0	.0	.0	2.5	2.0
10	---	---	1.5	.5	.5	.0	.0	.0	.5	.0	2.5	2.0
11	---	---	.5	.5	.0	.0	.5	.0	.5	.0	2.5	2.0
12	---	---	.5	.5	.0	.0	.5	.0	.5	.0	2.5	2.0
13	9.0	8.5	.5	.0	.0	.0	.5	.5	1.0	.5	3.0	2.5
14	8.5	8.5	.0	.0	.0	.0	.5	.0	.5	.0	3.0	2.5
15	9.0	8.0	.0	.0	.0	.0	.5	.5	.0	.0	3.5	2.5
16	9.5	9.0	.5	.0	.0	.0	.5	.0	.5	.0	3.5	3.0
17	9.5	8.5	.5	.5	.0	.0	.0	.0	.5	.5	3.5	3.0
18	9.0	8.5	.5	.0	.0	.0	.0	.0	1.0	.5	4.0	3.0
19	9.0	8.0	.0	.0	.0	.0	.0	.0	1.0	.5	4.0	3.5
20	8.5	8.0	.0	.0	.0	.0	.5	.0	1.0	.5	3.5	2.0
21	8.5	8.0	.0	.0	.0	.0	.5	.0	1.5	1.0	3.5	3.0
22	8.0	6.5	.5	.0	.0	.0	.5	.0	1.5	1.0	3.5	2.5
23	6.5	6.0	.0	.0	.0	.0	1.0	.0	1.5	1.5	4.0	2.5
24	6.0	4.5	.5	.0	.0	.0	.5	.0	1.5	1.5	4.5	3.0
25	5.0	4.0	.5	.0	.0	.0	.5	.0	1.5	1.0	4.5	4.0
26	5.0	4.0	1.0	.5	.0	.0	.5	.5	1.0	.5	4.0	3.5
27	5.0	4.5	1.0	.5	.0	.0	.5	.5	.5	.0	4.5	3.5
28	6.0	5.0	1.0	.5	.0	.0	.5	.0	.0	.0	5.0	4.0
29	6.5	6.0	.5	.0	.5	.0	.0	.0	---	---	5.0	4.5
30	6.5	6.0	.5	.0	.5	.0	.0	.0	---	---	5.5	4.5
31	6.5	6.0	---	---	.5	.5	.0	.0	---	---	5.0	3.0
MONTH	---	---	6.0	.0	1.0	.0	1.0	.0	1.5	.0	5.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.0	3.0	5.5	4.5	12.5	11.0	20.0	17.0	17.5	15.0	19.0	17.5
2	4.5	4.0	5.5	4.5	12.5	11.0	20.5	17.5	19.0	16.5	18.5	17.5
3	5.0	4.0	7.0	5.0	11.0	8.0	20.5	17.5	20.0	18.0	18.5	17.5
4	5.5	4.0	8.0	6.5	8.0	7.0	21.5	18.0	20.0	19.0	18.5	17.0
5	5.5	3.5	8.5	7.5	8.0	6.5	21.0	19.5	19.5	18.5	18.0	16.5
6	6.0	4.5	7.5	6.0	9.5	8.0	20.0	17.5	20.5	19.0	17.0	15.5
7	5.5	4.5	8.0	6.5	10.5	9.5	19.0	16.0	21.0	20.0	16.0	15.0
8	5.5	4.5	8.0	7.5	11.5	10.0	20.5	17.0	21.5	21.0	15.0	14.0
9	5.0	4.0	8.5	7.5	13.0	11.5	21.5	18.0	21.5	21.0	14.5	13.5
10	5.0	4.0	8.5	8.0	12.5	11.5	21.5	19.0	21.0	20.5	15.0	13.5
11	5.5	4.0	8.5	8.0	11.5	10.0	21.5	18.5	21.0	20.0	15.0	14.0
12	5.5	4.5	8.5	8.0	10.5	9.0	22.0	20.0	21.0	20.0	15.5	14.0
13	5.5	4.5	9.0	8.5	9.0	7.5	21.5	20.0	21.0	20.5	15.5	14.5
14	6.0	4.0	8.5	7.0	9.5	7.5	21.0	19.0	21.0	20.5	16.0	14.0
15	6.5	4.0	7.5	6.5	11.0	9.5	20.5	19.0	21.5	20.5	16.0	15.0
16	8.0	5.0	7.5	6.5	12.5	10.5	20.0	18.0	21.0	20.5	16.0	15.0
17	8.5	6.0	7.5	6.0	12.0	11.5	18.0	16.5	21.0	20.5	16.0	15.0
18	8.0	6.5	8.0	7.0	12.0	11.0	17.5	15.5	20.5	19.5	15.5	14.5
19	7.5	7.0	8.0	6.5	13.5	11.5	18.0	16.0	20.0	19.0	14.5	13.5
20	7.0	6.0	8.5	8.0	14.5	12.5	19.0	16.5	19.0	18.0	14.0	13.0
21	6.5	5.5	8.5	7.5	16.0	14.0	19.0	17.5	18.5	18.0	13.5	12.5
22	7.0	6.0	10.0	8.5	17.5	15.0	19.0	17.0	18.5	17.5	13.0	12.0
23	7.0	6.5	10.5	10.0	18.0	16.5	19.0	17.0	18.0	17.0	13.0	12.0
24	8.0	6.5	11.0	10.5	17.5	15.5	20.0	18.0	18.0	17.5	13.5	12.5
25	8.5	7.5	12.0	11.0	15.5	14.5	20.5	18.5	18.0	17.5	14.0	13.0
26	8.5	7.5	11.5	10.5	16.0	14.5	20.5	19.0	18.5	17.5	14.5	13.5
27	8.0	7.0	11.0	10.5	16.0	15.0	20.5	19.0	18.5	17.5	14.0	13.5
28	8.0	5.5	11.0	10.5	16.5	15.0	20.5	18.5	19.0	18.0	14.0	13.5
29	6.0	5.0	10.5	10.0	18.0	15.5	19.0	17.5	19.0	17.5	13.5	12.5
30	6.0	5.5	10.0	8.5	19.0	16.0	17.5	16.5	19.0	18.0	12.5	12.0
31	---	---	11.5	9.0	---	---	16.5	15.5	19.0	17.5	---	---
MONTH	8.5	3.0	12.0	4.5	19.0	6.5	22.0	15.5	21.5	15.0	19.0	12.0

CLEARWATER RIVER BASIN

13340950 DWORSHAK RESERVOIR NEAR AHSAHKA, ID

LOCATION.--Lat 46°31'00", long 116°17'30", in SW¼SE¼ sec.26, T.37 N., R.1 E., Clearwater County, Hydrologic Unit 17060308, at Dam, 1.5 mi northeast of Ahsahka, and at mile 2.0.

DRAINAGE AREA.--2,440 mi^2, approximately. Mean elevation, 4,220 ft.

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder located in gage slot 6 on the 1,603 ft level. Datum of gage is sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by straight-axis concrete gravity dam. Total capacity is 3,469,000 acre-ft between elevations 970.0 ft, bottom of bypass valve, and 1,600.0 ft, normal full pool elevation. Inactive storage for minimum power head is 1,452,000 acre-ft, elevation, 1,445.0 ft. Storage began Sept. 27, 1971. Dworshak Dam is used to regulate annual floodwaters of the North Fork Clearwater River and for power generation.

COOPERATION.--Capacity table provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 3,472,000 acre-ft Aug. 16, 1978, and June 6, 1981, elevation 1,600.21 ft; minimum since full capacity was reached July 29, 1974, 1,455,000 acre-ft Mar. 29, 30, 1976, Apr. 10, 1999; minimum elevation observed, 1,445.31 ft, Apr. 10, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 3,238,000 acre-ft July 2, elevation, 1,587.44 ft; minimum contents, 2,015,000 acre-ft Mar. 5, elevation, 1,501.85 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2234000	2236000	2226000	2198000	2076000	2016000	2148000	2423000	3026000	3238000	2761000	2241000
2	2240000	2236000	2225000	2198000	2067000	2016000	2155000	2446000	3037000	3234000	2743000	2240000
3	2241000	2235000	2225000	2197000	2067000	2016000	2162000	2465000	3047000	3228000	2724000	2239000
4	2241000	2235000	2225000	2197000	2068000	2016000	2168000	2481000	3063000	3222000	2705000	2237000
5	2241000	2235000	2225000	2197000	2069000	2016000	2173000	2498000	3073000	3213000	2689000	2235000
6	2241000	2235000	2225000	2197000	2070000	2016000	2177000	2513000	3085000	3203000	2670000	2234000
7	2241000	2234000	2224000	2197000	2070000	2018000	2182000	2527000	3096000	3188000	2652000	2232000
8	2240000	2235000	2224000	2196000	2070000	2019000	2187000	2541000	3105000	3172000	2633000	2231000
9	2239000	2235000	2223000	2195000	2070000	2022000	2191000	2556000	3114000	3155000	2616000	2229000
10	2239000	2234000	2222000	2194000	2069000	2025000	2195000	2573000	3123000	3138000	2597000	2228000
11	2237000	2233000	2209000	2194000	2070000	2027000	2199000	2589000	3131000	3121000	2579000	2227000
12	2236000	2232000	2202000	2195000	2069000	2028000	2203000	2607000	3141000	3105000	2558000	2225000
13	2236000	2232000	2202000	2195000	2060000	2030000	2207000	2628000	3151000	3088000	2539000	2223000
14	2237000	2230000	2201000	2195000	2050000	2032000	2210000	2653000	3160000	3070000	2520000	2222000
15	2237000	2229000	2201000	2194000	2041000	2034000	2213000	2687000	3167000	3053000	2501000	2220000
16	2236000	2229000	2200000	2194000	2031000	2035000	2216000	2719000	3174000	3037000	2481000	2219000
17	2236000	2228000	2200000	2194000	2028000	2037000	2221000	2745000	3180000	3021000	2461000	2217000
18	2234000	2228000	2200000	2192000	2026000	2039000	2227000	2769000	3186000	3004000	2441000	2216000
19	2234000	2227000	2199000	2191000	2019000	2045000	2236000	2788000	3191000	2986000	2421000	2214000
20	2234000	2226000	2199000	2191000	2018000	2054000	2244000	2807000	3196000	2968000	2402000	2213000
21	2236000	2225000	2198000	2191000	2018000	2060000	2251000	2825000	3201000	2953000	2381000	2211000
22	2237000	2225000	2199000	2183000	2018000	2066000	2256000	2842000	3205000	2935000	2361000	2209000
23	2237000	2224000	2199000	2173000	2018000	2071000	2264000	2860000	3210000	2918000	2341000	2207000
24	2237000	2224000	2199000	2161000	2018000	2077000	2272000	2880000	3212000	2901000	2320000	2205000
25	2237000	2224000	2199000	2151000	2018000	2086000	2283000	2904000	3217000	2883000	2300000	2204000
26	2236000	2225000	2199000	2140000	2018000	2097000	2299000	2927000	3220000	2865000	2279000	2201000
27	2236000	2225000	2199000	2129000	2017000	2105000	2319000	2950000	3225000	2848000	2259000	2200000
28	2236000	2225000	2199000	2119000	2017000	2114000	2343000	2969000	3229000	2830000	2251000	2199000
29	2236000	2226000	2199000	2108000	---	2123000	2364000	2986000	3233000	2812000	2247000	2197000
30	2236000	2225000	2199000	2097000	---	2131000	2391000	3001000	3235000	2794000	2245000	2196000
31	2236000	---	2198000	2086000	---	2139000	---	3014000	---	2777000	2243000	---
MAX	2241000	2236000	2226000	2198000	2076000	2139000	2391000	3014000	3235000	3238000	2761000	2241000
MIN	2234000	2224000	2198000	2086000	2017000	2016000	2148000	2423000	3026000	2777000	2243000	2196000
†	1519.86	1519.03	1516.94	1507.94	1501.97	1512.23	1531.50	1574.19	1587.29	1558.89	1520.41	1516.75
‡	12000	-11000	-27000	-112000	-69000	122000	252000	623000	221000	458000	-534000	-47000

CAL YR 2000 ‡ -278000
WTR YR 2001 ‡ -28000

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

CLEARWATER RIVER BASIN

13341050 CLEARWATER RIVER NEAR PECK, ID

LOCATION.--Lat 46°30'00", long 116°23'30", in NE¼NE¼ sec.1, T.36 N., R.1 W., Nez Perce County, Hydrologic Unit 17060306, on left bank 2 mi upstream from Big Canyon Creek, 2.2 mi northeast of Peck, 3 mi downstream from North Fork Clearwater River, and at mile 37.4.

DRAINAGE AREA.--8,040 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 930 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Flow regulated by Dworshak Reservoir (station 13340950) 5.1 mi upstream beginning September 1971.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1965-71), 107,000 ft^3/s May 13, 1971, maximum gage height, 25.00 ft, Dec. 28, 1967, result of ice jam; minimum, 1,630 ft^3/s Nov. 30. 1969, gage height, 2.70 ft.

Maximum discharge since regulation (1972-2001), 127,000 ft^3/s June 16, 1974, gage height, 23.66 ft; minimum, 1,260 ft^3/s Oct. 31, 1971, gage height, 2.24 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 8, 1964, reached a stage of 23.95 ft, from floodmark, discharge, 118,000 ft^3/s, from rating extended above 89,100 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 38,900 ft^3/s May 15; minimum daily, 2,600 ft^3/s Sept. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6310	5260	3840	3560	8680	3850	12900	31200	19100	8490	13700	2930
2	12300	5210	3810	3490	8610	3990	12700	25800	18800	10400	13600	2800
3	8500	4970	3630	3420	3620	4300	12200	21800	17300	10800	13100	2780
4	6130	4820	3610	3410	3620	4170	11300	19900	19400	10500	12900	2760
5	5170	4990	3700	3450	4560	4120	10300	20000	18600	11700	12800	2700
6	4720	5060	3580	3510	5310	4360	9700	19600	17500	12200	12800	2680
7	4430	4770	3550	3420	4800	4750	9750	18500	17900	13900	12700	2720
8	4230	4660	3470	3050	4270	5430	9770	18900	16800	14400	12600	2880
9	4070	4610	3420	3080	3880	6950	9290	20700	17500	14200	12000	2850
10	4090	4620	4110	3110	3910	7610	8600	22500	18200	14000	12500	2790
11	4100	4150	9430	3630	3860	7090	8390	23200	16900	13800	12500	2750
12	4110	4050	5630	3700	3810	6600	8770	24900	17800	13700	12400	2710
13	4640	4200	2890	3600	8110	6410	8840	29800	19000	13900	12400	2680
14	7910	3830	3020	3510	8330	6950	8290	33400	17200	13700	12400	2650
15	7770	4020	3560	3520	8330	6700	7880	38900	16300	13500	12400	2650
16	6640	4110	3470	3420	8250	6490	7760	38100	15300	13600	12400	2640
17	5870	4100	3540	3400	4840	6170	8190	33300	14500	14200	12400	2630
18	5540	4010	3500	3860	4800	6100	9260	28500	14000	14000	12400	2700
19	5490	3720	3450	3310	7360	7060	10900	25600	13200	13600	12400	2670
20	5800	3470	3450	3410	4010	9750	11700	24800	12600	13700	12200	2630
21	6580	3280	3340	3410	3980	9970	11300	23300	12100	13500	12300	2600
22	8240	3610	3410	7240	4220	9280	10800	22700	11800	13400	12400	2680
23	7050	3670	3610	8290	4590	9180	10500	24600	11500	13200	12400	2690
24	6280	3480	3840	8910	4610	9710	10900	28100	11000	13100	12400	2680
25	5970	3760	3950	8660	4550	11500	12700	31500	10300	13000	12400	2650
26	5720	3990	3800	8560	4400	13900	16200	32700	9690	12900	12400	2640
27	5550	3960	3700	8600	4230	13000	21600	30300	9290	12800	12200	2640
28	5440	3980	3650	8460	4000	12400	27300	28300	10200	12700	6700	2660
29	5420	3810	3640	8140	---	13600	27100	26100	10300	12700	4210	2660
30	5690	3740	3580	8010	---	12700	24600	22600	9090	12700	3060	2670
31	5530	---	3520	8480	---	12000	---	19800	---	12900	3000	---
TOTAL	185290	125910	118700	155620	147540	246090	369490	809400	443170	401190	356070	81170
MEAN	5977	4197	3829	5020	5269	7938	12320	26110	14770	12940	11490	2706
MAX	12300	5260	9430	8910	8680	13900	27300	38900	19400	14400	13700	2930
MIN	4070	3280	2890	3050	3620	3850	7760	18500	9090	8490	3000	2600
AC-FT	367500	249700	235400	308700	292600	488100	732900	1605000	879000	795800	706300	161000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1971, BY WATER YEAR (WY) (UNREGULATED)

MEAN	4796	6642	7898	10520	12710	12550	26050	49610	40830	10530	3812	3799
MAX	8818	12510	18720	16090	21110	17630	41330	72930	54520	15670	5024	7201
(WY)	1969	1969	1965	1969	1971	1968	1965	1971	1971	1971	1965	1968
MIN	2887	3365	4174	4770	3779	10220	14200	36430	21890	6351	2704	2219
(WY)	1967	1970	1966	1966	1966	1967	1970	1968	1966	1966	1966	1966

SUMMARY STATISTICS	[a] WATER YEARS 1965 - 1971	
ANNUAL MEAN	15800	
HIGHEST ANNUAL MEAN	19980	1971
LOWEST ANNUAL MEAN		1966
HIGHEST DAILY MEAN	103000	May 13 1971
LOWEST DAILY MEAN	1860	Sep 29 1967
ANNUAL SEVEN-DAY MINIMUM	1920	Sep 24 1967
ANNUAL RUNOFF (AC-FT)	11440000	
10 PERCENT EXCEEDS	42500	
50 PERCENT EXCEEDS	8540	
90 PERCENT EXCEEDS	3140	

CLEARWATER RIVER BASIN

13341050 CLEARWATER RIVER NEAR PECK, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2001, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4300	6945	9174	9465	10600	15380	21120	35210	31350	13720	7690	7051
MAX	8253	20750	26370	22670	32460	33820	37740	64110	70340	27610	18900	11550
(WY)	1976	1996	1976	1974	1996	1986	1997	1972	1974	1997	1997	1989
MIN	1680	2134	2214	2971	3295	4717	7476	19490	8646	4892	2996	2588
(WY)	1972	1972	1972	1987	1973	1973	1973	1977	1987	1987	1994	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		[b] WATER YEARS 1972 - 2001	
ANNUAL TOTAL	5061990		3439640			
ANNUAL MEAN	13830		9424		14340	
HIGHEST ANNUAL MEAN					23480	1996
LOWEST ANNUAL MEAN					7676	1973
HIGHEST DAILY MEAN	45700	Apr 22	38900	May 15	119000	Jun 16 1974
LOWEST DAILY MEAN	2890	Dec 13	2600	Sep 21	1330	Oct 31 1971
ANNUAL SEVEN-DAY MINIMUM	3010	Sep 24	2650	Sep 15	1460	Oct 7 1971
ANNUAL RUNOFF (AC-FT)	10040000		6823000		10390000	
10 PERCENT EXCEEDS	30900		18900		33100	
50 PERCENT EXCEEDS	12400		7610		9860	
90 PERCENT EXCEEDS	3550		3100		3410	

a Unregulated
b Regulated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to 1984, October 1985 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1964 to September 1984, October 1985 to current year.

INSTRUMENTATION.--Temperature recorder since October 1964.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 25.0 °C Aug. 1-2, 1965; minimum, 0.0 °C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 19.5 °C June 30, July 1; minimum, 1.5 °C Jan. 8, Feb. 9.

REMARKS.--Temperature record rated excellent except for period July 10 to Sept. 12, which is rated good.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.5	11.0	9.5	8.5	4.0	3.5	3.5	3.0	4.5	3.5	4.0	2.5
2	12.0	11.5	9.0	8.0	4.0	3.5	3.5	2.5	4.5	3.5	4.0	3.5
3	11.5	10.5	8.0	7.5	4.0	4.0	3.5	2.5	4.0	3.0	4.5	3.5
4	11.5	10.0	7.5	7.0	4.0	4.0	3.5	3.0	3.5	3.0	5.0	3.5
5	11.0	9.5	7.5	6.5	4.0	4.0	3.5	3.0	4.0	3.5	5.5	4.5
6	10.0	8.5	7.0	6.0	4.0	4.0	3.0	2.5	3.5	3.0	6.0	4.5
7	10.0	8.0	7.0	6.0	4.0	4.0	2.5	2.0	3.0	2.5	6.0	4.5
8	10.0	8.0	6.5	6.0	4.0	3.5	2.5	1.5	2.5	2.0	6.0	4.5
9	10.0	8.5	6.0	5.5	4.0	3.5	2.5	2.5	2.5	1.5	5.5	5.0
10	9.5	8.5	5.5	5.0	5.5	3.5	2.5	2.0	3.0	2.0	5.0	4.5
11	9.5	9.0	5.0	5.0	5.5	3.0	2.5	2.0	3.5	2.5	5.5	4.5
12	9.5	9.0	5.0	4.5	5.5	2.5	2.5	2.5	3.0	2.5	6.0	4.5
13	9.5	9.5	4.5	4.0	3.0	2.5	2.5	2.0	4.0	3.0	6.0	5.0
14	10.0	9.0	4.5	3.5	3.0	2.5	3.0	2.5	4.0	3.5	6.0	5.0
15	10.0	9.0	4.5	4.0	3.0	2.0	3.5	2.5	4.0	3.5	5.5	4.5
16	10.0	9.5	4.0	3.5	2.5	2.0	3.0	2.5	4.5	4.0	5.5	4.5
17	10.5	9.0	4.0	3.5	3.0	2.5	3.0	2.5	4.5	3.5	5.5	4.5
18	11.5	9.0	4.0	3.0	2.5	2.0	4.0	2.5	4.5	4.0	6.0	5.0
19	11.5	10.5	3.5	3.0	2.5	2.0	3.5	2.0	5.0	4.0	6.5	5.5
20	11.5	11.0	3.5	3.0	2.5	2.0	2.5	2.0	5.0	3.5	6.0	5.0
21	11.0	9.5	3.5	3.0	2.5	2.0	3.0	2.0	5.0	4.5	6.0	5.5
22	9.5	9.0	3.5	3.0	3.0	2.5	4.5	3.0	5.5	4.5	6.0	5.5
23	9.5	8.5	3.5	3.0	3.0	2.5	4.5	4.0	5.0	4.5	6.5	5.5
24	9.0	8.0	4.0	3.5	2.5	2.5	4.5	3.5	5.0	4.0	7.0	6.0
25	9.0	8.0	4.0	3.5	2.5	2.0	4.5	3.5	4.5	4.0	7.0	6.0
26	8.5	8.0	4.0	4.0	2.5	2.0	4.5	3.5	4.5	3.0	6.0	5.5
27	9.0	8.0	4.5	4.0	3.0	2.5	4.5	3.5	4.0	3.0	6.0	5.0
28	8.5	8.0	4.0	3.5	3.0	2.5	4.5	3.5	4.0	2.5	6.5	6.0
29	9.0	8.5	4.0	3.5	3.5	2.5	4.5	3.0	---	---	6.5	6.0
30	9.0	8.5	4.0	3.5	3.0	2.5	4.5	3.5	---	---	7.0	6.5
31	9.0	8.5	---	---	3.5	3.0	4.5	3.5	---	---	7.0	5.5
MONTH	12.5	8.0	9.5	3.0	5.5	2.0	4.5	1.5	5.5	1.5	7.0	2.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.0	5.5	7.0	6.5	14.0	12.5	19.5	18.0	13.0	11.5	14.5	13.0
2	6.5	5.5	6.5	5.5	14.0	12.5	18.5	16.5	13.0	12.0	15.0	12.5
3	6.5	5.5	8.0	5.5	13.0	11.0	18.0	16.5	13.0	11.5	15.0	12.5
4	7.0	6.0	9.5	7.5	11.0	9.0	18.0	17.0	12.5	11.5	15.0	12.5
5	7.0	6.0	9.5	9.0	9.0	8.0	17.5	15.5	12.5	11.5	14.0	12.5
6	7.5	7.0	9.5	8.0	11.0	8.0	16.0	15.0	12.5	11.5	13.5	11.5
7	7.0	6.0	9.0	7.5	11.0	10.0	15.0	14.0	12.5	11.5	13.0	11.0
8	6.5	5.5	9.5	8.5	12.0	10.5	15.0	13.5	12.5	11.5	13.5	11.0
9	6.5	5.5	10.0	8.5	14.0	12.0	14.5	13.5	14.0	11.5	13.5	11.0
10	7.0	6.0	10.0	9.0	14.0	13.0	15.0	13.5	12.5	11.5	13.0	11.0
11	7.0	6.0	10.0	9.0	13.0	12.0	15.0	14.0	12.5	11.5	13.5	11.5
12	7.5	6.5	10.5	8.5	12.5	11.5	14.5	13.5	12.5	11.5	13.5	11.5
13	7.0	6.5	10.0	9.0	11.5	9.5	14.5	13.5	12.0	10.5	13.5	11.5
14	7.5	6.0	9.0	8.0	10.0	9.0	14.5	13.0	12.0	11.5	13.5	11.5
15	8.5	6.5	8.5	7.5	12.5	10.0	14.0	13.0	12.0	11.5	13.5	11.5
16	9.5	7.5	8.5	7.5	13.5	12.0	13.5	12.5	11.5	11.0	14.0	12.0
17	9.5	8.5	8.5	7.5	13.5	13.0	13.5	12.0	11.5	11.0	13.5	12.0
18	9.5	9.0	9.0	7.5	14.0	12.5	13.0	12.0	11.5	10.5	13.5	12.0
19	9.5	9.0	9.0	8.0	14.5	13.5	13.0	11.5	11.0	10.5	13.0	11.5
20	9.0	7.5	10.5	8.5	15.0	14.0	13.5	12.0	11.5	10.0	12.5	10.5
21	8.5	7.5	10.5	9.0	16.0	14.5	13.5	12.0	11.0	10.0	12.0	10.5
22	8.0	7.5	11.0	9.0	17.5	16.0	13.5	12.0	10.5	10.0	12.0	10.0
23	8.5	8.0	12.0	10.0	18.0	17.0	13.5	12.0	10.5	10.0	12.5	10.5
24	10.0	8.5	12.5	11.0	17.5	16.0	13.5	12.0	10.5	10.0	12.5	10.5
25	11.0	10.0	13.0	11.0	17.0	15.5	13.0	12.0	11.0	10.0	11.5	10.5
26	11.0	10.0	12.5	11.5	17.0	16.0	13.5	12.0	11.0	10.0	12.0	10.5
27	10.0	9.5	12.5	11.0	17.0	16.0	13.0	11.5	11.0	8.5	12.0	10.5
28	10.0	7.0	12.0	11.0	18.0	16.5	12.5	11.5	11.0	8.5	11.0	10.0
29	7.0	6.5	13.0	11.0	19.0	17.5	11.5	11.0	13.5	10.0	11.0	9.5
30	7.0	6.5	12.5	11.0	19.5	18.0	11.5	11.0	15.0	11.5	11.0	9.5
31	---	---	12.5	10.5	---	---	12.5	11.0	15.0	13.0	---	---
MONTH	11.0	5.5	13.0	5.5	19.5	8.0	19.5	11.0	15.0	8.5	15.0	9.5

CLEARWATER RIVER BASIN

13342450 LAPWAI CREEK NEAR LAPWAI, ID

LOCATION.--Lat 46°25'36", long 116°48'15", in NW¼NE¼NW¼ sec.35, T.36 N., R.4 W., Nez Perce County, Hydrologic Unit 17050306, on right bank, 30 ft upstream from county road bridge, 0.7 mi downstream from Tom Beall Creek, 1.6 mi north of Lapwai, 1.6 mi south of Spalding, and at mile 1.9.

DRAINAGE AREA.--235 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 864.64 ft above sea level.

REMARKS.--No estimated daily discharges. Records good except for discharges above 400 ft^3/s, which are fair. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 1,500 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,010 ft^3/s Feb. 9, 1996, gage height, 9.70 ft, from rating curve extended above 1,500 ft^3/s; maximum gage height, 10.22 ft, Feb. 23, 1986; minimum, 0.71 ft^3/s Dec. 21, 1990, gage height, 2.39 ft, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 4,380 ft^3/s January 1965, on basis of slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 19	2130	*1,120	*5.47	Apr. 30	2315	720	4.76

Minimum daily, 1.9 ft^3/s Aug. 16, 18, 26, 29, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	21	21	25	30	32	219	460	19	9.4	4.3	2.2
2	21	20	21	24	30	34	199	312	18	8.6	3.8	2.2
3	17	20	22	24	30	32	210	239	18	7.9	3.3	2.3
4	24	20	22	24	34	31	247	199	19	7.1	3.4	2.2
5	23	21	22	24	59	30	243	160	22	7.1	3.8	2.3
6	19	21	22	24	71	32	273	137	22	7.0	3.4	2.3
7	18	20	22	22	64	37	280	117	19	6.5	3.1	2.4
8	17	21	21	23	59	51	257	99	18	5.9	2.7	2.4
9	16	24	21	24	61	76	274	85	18	5.6	2.7	2.4
10	16	23	21	24	55	82	247	74	17	5.4	2.7	2.4
11	16	22	20	24	50	85	241	66	16	4.8	2.3	2.4
12	16	21	14	27	46	87	318	60	19	4.9	2.4	2.3
13	18	21	18	26	43	100	294	55	22	5.2	2.2	2.3
14	19	20	21	27	40	200	236	60	19	4.9	2.0	2.2
15	17	21	22	27	39	190	211	83	17	4.0	2.1	2.1
16	17	20	20	26	37	173	218	89	15	5.4	1.9	2.1
17	16	20	21	22	36	138	211	76	14	6.4	2.1	2.1
18	16	19	20	26	35	139	199	67	13	5.8	1.9	2.3
19	18	18	20	27	35	534	213	57	12	5.2	2.0	2.4
20	19	19	19	26	34	550	184	42	12	5.0	2.0	2.5
21	27	19	20	26	32	395	179	36	11	5.2	2.1	2.5
22	31	19	20	26	33	329	157	33	9.4	5.1	2.1	2.7
23	29	18	21	26	35	298	146	30	8.9	4.7	2.1	2.7
24	26	18	24	28	37	290	135	27	9.0	4.2	2.3	2.6
25	23	18	23	30	36	302	118	25	9.4	3.5	2.1	2.7
26	22	19	23	32	35	285	108	23	9.9	3.8	1.9	3.0
27	21	19	23	32	33	230	118	24	12	3.7	2.0	3.2
28	21	20	24	32	32	231	134	31	15	3.6	2.0	3.5
29	22	21	26	30	---	233	172	25	13	3.8	1.9	3.6
30	22	21	26	32	---	190	223	24	11	4.4	1.9	3.6
31	21	---	26	31	---	167	---	21	---	4.6	2.0	---
TOTAL	629	604	666	821	1161	5583	6264	2836	457.6	168.7	76.5	75.9
MEAN	20.3	20.1	21.5	26.5	41.5	180	209	91.5	15.3	5.44	2.47	2.53
MAX	31	24	26	32	71	550	318	460	22	9.4	4.3	3.6
MIN	16	18	14	22	30	30	108	21	8.9	3.5	1.9	2.1
AC-FT	1250	1200	1320	1630	2300	11070	12420	5630	908	335	152	151
CFSM	.09	.09	.09	.11	.18	.77	.89	.39	.06	.02	.01	.01
IN.	.10	.10	.11	.13	.18	.88	.99	.45	.07	.03	.01	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2001, BY WATER YEAR (WY)

MEAN	15.3	26.2	56.4	77.3	132	195	221	138	48.9	14.7	7.20	9.54
MAX	34.5	74.1	357	333	675	487	546	368	140	42.7	16.3	18.2
(WY)	1976	1999	1976	1997	1996	1997	1976	1979	1984	1982	1976	1984
MIN	4.14	8.68	12.6	14.9	15.0	18.9	26.7	8.98	3.00	2.96	1.68	2.53
(WY)	1995	1994	1993	1993	1977	1977	1992	1992	1992	1994	1994	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1975 - 2001	
ANNUAL TOTAL	19103.5		19342.7			
ANNUAL MEAN	52.2		53.0		78.1	
HIGHEST ANNUAL MEAN					193	1996
LOWEST ANNUAL MEAN					15.7	1992
HIGHEST DAILY MEAN	329	Mar 28	550	Mar 20	3600	Feb 9 1996
LOWEST DAILY MEAN	2.9	Aug 12	1.9	Aug 16	.93	Aug 15 1992
ANNUAL SEVEN-DAY MINIMUM	3.1	Aug 7	2.0	Aug 25	1.1	Aug 11 1992
ANNUAL RUNOFF (AC-FT)	37890		38370		56550	
ANNUAL RUNOFF (CFSM)	.22		.23		.33	
ANNUAL RUNOFF (INCHES)	3.02		3.06		4.51	
10 PERCENT EXCEEDS	142		194		213	
50 PERCENT EXCEEDS	22		21		25	
90 PERCENT EXCEEDS	4.4		2.4		5.9	

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-82, 1991, 1993, 1995, April to September 1997, April to September 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April to September 1998, April to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 29.1 °C July 27, 1998.

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles.
MESH SIZE.--425 um.

AVERAGE DEPTH.-- 0.12 m.

AVERAGE PERCENT SHADING.--69.

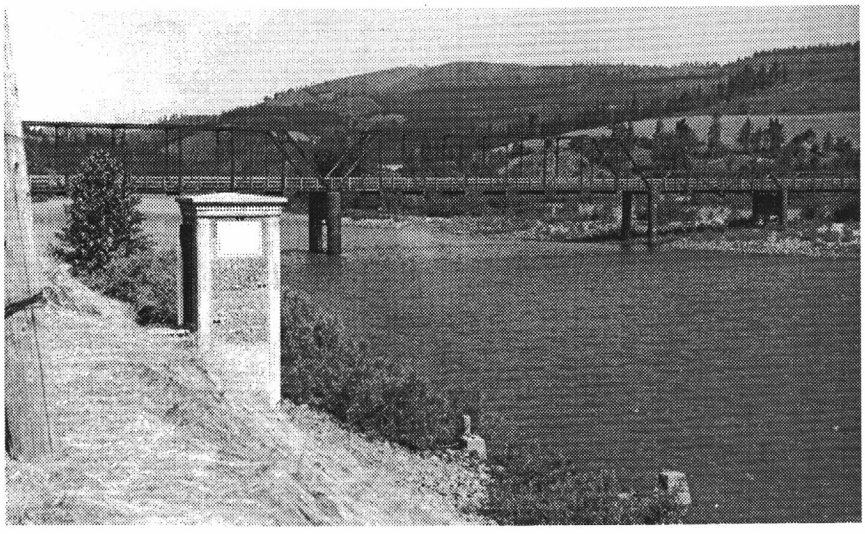
AVERAGE VELOCITY.--0.53 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--2-3.

PERCENT FINES AVERAGE.--22.

BIOLOGICAL DATA, AUGUST 2000
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM TAXON *GENUS SPECIES*	DATE Aug.29	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION
NON-INSECTS			
Turbellaria		10	0.27
Ophidonais serpentina		45	1.20
Uncinais uncinata		515	13.58
Imma. Tubificid with cap. setae		45	1.20
Ostracoda		10	0.27
Hyalella azteca		5	0.13
Pacifasticus		5	0.13
Acari		61	1.60
ODONATA			
Argia		15	0.40
EPHEMEROPTERA			
Baetis tricaudatus		25	0.67
Fallceon quilleri		5	0.13
Epeorus albertae		10	0.27
Rhithrogena		10	0.27
Paraleptophlebia		76	2.00
Paraleptophlebia bicornuta		10	0.27
Tricorythodes		5	0.13
PLECOPTERA			
Sweltsa		5	0.13
Pteronarcella		5	0.13
TRICHOPTERA			
Brachycentrus occidentalis		434	11.45
Glossosoma		10	0.27
Helicopsyche borealis		10	0.27
Cheumatopsyche		81	2.13
Hydropsyche		349	9.19
Hydroptila		167	4.39
Leucotrichia		76	2.00
Lepidostoma-sand case larvae		5	0.13
LEPIDOPTERA			
Petrophila		182	4.79
COLEOPTERA			
Optioservus		919	24.23
Ordobrevia nubifera		35	0.93
Zaitzevia		71	1.86
Psephenus		51	1.33
DIPTERA			
Atherix		30	0.80
Hemerodromia		30	0.80
Simulium		30	0.80
Antocha		106	2.80
Hexatoma		5	0.13
CHIRONOMIDAE			
Chironomidae-pupae		30	0.80
Chironomus		5	0.13
Cricotopus		126	3.33
Microtendipes		20	0.53
Potthastia Gaedii group		86	2.26
Rheocricotopus		5	0.13
Rheotanytarsus		5	0.13
Stempellinella		10	0.27
Sublettea		35	0.93
Tanytarsus		5	0.13
Thienemannimyia group		10	0.27
SUMMARY STATISTICS			
TOTAL NUMBER OF TAXA	47		
TOTAL INDIVIDUALS	3,794		



Clearwater River at Kamiah, Idaho. (July 16, 1940)

13342500 CLEARWATER RIVER AT SPALDING, ID

LOCATION.--Lat 46°26'55", long 116°49'35", in Indian allotment 198, NW¼NE¼SW¼ sec.22, T.36 N., R.4 W., Nez Perce County, Hydrologic Unit 17060306, Nez Perce Indian Reservation, on left bank 0.4 mi downstream from Lapwai Creek, 0.6 mi west of Spalding Post Office, 0.9 mi upstream from U.S. Highway 95 bridge, and at mile 11.6.

DRAINAGE AREA.--9,570 mi^2. Mean elevation, 4,360 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1910 to October 1913, October 1924 to January 1925, April 1925 to current year. Published as "near Lewiston", 1910-13, 1924-27. Records published for both sites March 1926 to September 1927.

REVISED RECORDS.--WSP 1737: 1927, 1935, 1943.

GAGE.--Water-stage recorder. Datum of gage is 770.49 ft above sea level. See WDR for Idaho, 1966-68, for history of changes prior to Oct. 1, 1962.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 1,630 acres (1966 determination). Regulation of the North Fork Clearwater River at Ahsahka began on Sept. 27, 1971, when diversion tunnel at Dworshak Dam was closed.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (1911-71), 177,000 ft^3/s May 29, 1948, gage height, 23.76 ft; maximum gage height, 27.77 ft, Feb. 5, 1963, from floodmark (ice jam); minimum daily, 500 ft^3/s Jan. 9, 1937, Dec. 1, 1952.

Maximum discharge since regulation (1972-2001), 131,000 ft^3/s June 16, 1974, gage height, 19.10 ft; minimum, 1,350 ft^3/s Oct. 31, 1971, gage height, 2.47 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of 20.8 ft, site and datum in use 1924-26, discharge, 136,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44,700 ft^3/s May 15, gage height, 11.19 ft; minimum daily, 2,500 ft^3/s Sept. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4690	5260	3770	3510	8750	4160	14200	34600	19700	8520	13500	2810
2	11900	5190	3810	3480	8700	4220	14200	29200	19400	9770	13700	2720
3	9220	5010	3650	3410	4990	4590	13900	24000	18200	10800	13200	2680
4	6540	4800	3530	3380	3660	4530	12900	21500	19200	10500	12900	2670
5	5290	4870	3650	3390	4480	4650	11800	21000	19900	11300	12800	2610
6	4820	5080	3550	3460	5800	5280	10800	20900	17900	12300	12700	2580
7	4460	4800	3510	3450	5350	5810	10800	19400	18500	13600	12700	2580
8	4240	4660	3460	3140	4720	6640	10900	19500	17500	14600	12600	2700
9	4070	4600	3370	3000	4260	8250	10500	21200	17700	14400	11900	2750
10	4010	4620	3420	3120	4130	9190	9660	23200	18900	14200	12400	2680
11	4070	4280	10100	3410	4080	8680	9440	24000	17700	14000	12400	2650
12	4070	3930	5770	3690	3990	8260	10100	25400	17700	13900	12400	2610
13	4250	4180	2920	3610	7070	8180	10300	29900	19900	14000	12400	2580
14	7250	3870	2870	3510	8520	9310	9480	34400	18000	13900	12400	2550
15	7790	3870	3320	3510	8490	8510	8860	39100	16900	13700	12400	2540
16	6860	4030	3470	3400	8490	8100	8600	40000	15900	13700	12400	2530
17	6010	4050	3410	3380	5770	7480	8770	35800	14900	14300	12400	2520
18	5590	4030	3420	3280	4910	7270	9760	30000	14400	14300	12400	2550
19	5440	3730	3430	3840	6810	9070	11400	27000	13500	13900	12400	2570
20	5660	3480	3370	3350	5160	11900	12700	25600	12700	13800	12200	2530
21	6050	3220	3300	3380	4190	11900	12200	24400	12100	13700	12400	2500
22	8240	3440	3320	5970	4460	10700	11600	23300	11800	13600	12400	2530
23	7330	3620	3490	8380	5040	10300	11100	25000	11500	13500	12400	2570
24	6370	3430	3750	8540	5150	10600	11300	28400	11000	13200	12400	2550
25	5980	3570	3990	9040	5090	12300	12800	32100	10300	13100	12400	2530
26	5730	3910	3840	8650	4860	15000	16300	33800	9640	13000	12400	2520
27	5530	3920	3720	8680	4640	14600	21800	31500	9270	12800	12300	2520
28	5430	3950	3650	8550	4370	13400	28000	29500	9700	12700	7920	2530
29	5370	3810	3630	8290	---	15000	29200	27200	10400	12700	4780	2540
30	5550	3740	3600	8050	---	14100	26300	24000	9160	12700	3240	2520
31	5560	---	3510	8430	---	13100	---	20700	---	12800	2850	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1971, BY WATER YEAR (WY) (UNREGULATED)

MEAN	4416	6790	8078	7715	9362	13290	30670	50570	37270	10180	3616	3174
MAX	17160	38940	33250	28480	22100	32100	53370	85900	73630	21800	6180	7210
(WY)	1960	1928	1934	1934	1971	1934	1943	1948	1964	1950	1950	1968
MIN	1893	1783	2126	1577	2068	3868	14880	24830	10760	3682	1935	1870
(WY)	1953	1937	1953	1937	1937	1955	1941	1941	1934	1931	1931	1937

SUMMARY STATISTICS	[a] WATER YEARS 1911 - 1971	
ANNUAL MEAN	15430	
HIGHEST ANNUAL MEAN	24250	1928
LOWEST ANNUAL MEAN	8556	1944
HIGHEST DAILY MEAN	166000	May 29 1948
LOWEST DAILY MEAN	500	Jan 9 1937
ANNUAL SEVEN-DAY MINIMUM	921	Nov 26 1952
ANNUAL RUNOFF (AC-FT)	11180000	
10 PERCENT EXCEEDS	42400	
50 PERCENT EXCEEDS	7000	
90 PERCENT EXCEEDS	2500	

CLEARWATER RIVER BASIN

13342500 CLEARWATER RIVER AT SPALDING, ID--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2001, BY WATER YEAR (WY) (REGULATED)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4304	7054	9644	10310	12240	17310	22490	35950	31720	13810	7644	7035
MAX	8260	21010	27180	27320	38940	35770	41190	63180	73570	27750	19000	11520
(WY)	1976	1996	1976	1974	1996	1986	1997	1972	1974	1997	1997	1986
MIN	1711	2209	2479	3301	3350	4879	7761	19200	8766	4861	2914	2513
(WY)	1972	1972	1972	1987	1973	1977	1973	1977	1987	1987	1994	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		[b] WATER YEARS 1972 - 2001	
ANNUAL TOTAL	5171070		3558550			
ANNUAL MEAN	14130		9749		14960	
HIGHEST ANNUAL MEAN					25020	1996
LOWEST ANNUAL MEAN					7852	1973
HIGHEST DAILY MEAN	46000	Apr 22	40000	May 16	124000	Jun 16 1974
LOWEST DAILY MEAN	2870	Dec 14	2500	Sep 21	1390	Oct 31 1971
ANNUAL SEVEN-DAY MINIMUM	3060	Sep 24	2530	Sep 24	1470	Oct 8 1971
ANNUAL RUNOFF (AC-FT)	10260000		7058000		10830000	
10 PERCENT EXCEEDS	30000		19600		34200	
50 PERCENT EXCEEDS	13000		8260		10300	
90 PERCENT EXCEEDS	3490		3190		3430	

a Unregulated
b Regulated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959-60, 1968 to current year.

PERIOD OR DAILY RECORDS.--
WATER TEMPERATURE: Water years 1959 to 1970, 1972 to current year.

INSTRUMENTATION.--Temperature recorder since October 1959.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 28.0 °C Aug. 13, 1963; minimum, 0.0 °C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 21.0 °C June 30, July 1-2; minimum, 1.0 °C Dec. 16, 20, Jan. 8, Feb. 8.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.5	12.0	9.0	8.0	4.0	3.5	3.5	2.5	4.5	3.5	4.5	2.5
2	13.0	11.5	8.0	7.5	4.0	3.0	3.5	2.5	4.5	4.0	5.5	4.0
3	12.5	10.5	8.0	7.0	4.5	3.5	3.5	2.5	5.5	4.0	5.5	3.5
4	11.5	10.0	7.0	6.5	4.5	4.0	4.5	3.0	5.0	4.0	6.0	4.0
5	11.5	10.0	7.5	6.5	4.5	4.0	4.5	3.5	5.0	4.0	7.0	5.0
6	11.0	9.0	7.0	6.0	4.5	3.5	4.0	2.5	4.0	3.0	7.0	5.0
7	11.0	8.5	6.5	5.0	4.5	4.0	3.0	2.0	3.5	2.5	7.5	5.0
8	11.0	8.5	6.0	5.5	4.0	3.5	2.5	1.0	2.5	1.0	6.5	5.5
9	10.5	9.0	6.5	5.5	4.5	3.5	3.0	2.0	2.5	1.5	6.5	5.5
10	10.0	9.0	5.5	4.5	4.0	3.5	3.5	2.5	3.5	2.0	6.0	5.5
11	10.5	9.5	5.0	4.0	5.5	3.0	3.0	2.0	4.0	2.0	6.5	4.5
12	10.5	9.5	5.0	3.5	4.0	2.5	3.0	2.5	3.5	2.0	6.5	5.0
13	10.5	9.5	4.0	3.0	4.0	1.5	3.5	2.5	4.5	3.0	7.0	5.5
14	10.5	9.0	3.5	2.5	2.5	1.5	3.0	2.5	4.0	3.0	7.0	5.5
15	10.0	8.5	4.5	3.5	3.0	1.5	3.5	2.5	4.5	3.5	6.0	5.0
16	10.5	9.0	3.5	2.5	2.0	1.0	4.0	2.5	5.0	4.0	5.5	5.0
17	10.5	9.0	4.0	3.0	3.0	2.0	3.0	1.5	5.5	4.0	6.5	5.0
18	10.0	9.5	3.5	2.5	2.5	1.5	3.0	2.0	5.5	4.5	6.5	5.5
19	11.5	9.5	3.0	2.0	2.5	1.5	3.5	2.5	5.5	4.0	7.0	5.5
20	11.0	10.5	3.0	2.0	2.0	1.0	3.5	2.0	6.0	4.0	7.0	5.0
21	11.0	9.5	3.5	2.0	2.5	1.5	3.5	2.5	6.0	4.5	7.5	5.0
22	9.5	8.5	3.0	2.5	3.0	2.0	4.5	2.5	7.0	5.0	7.5	5.0
23	9.0	7.5	3.5	2.5	3.5	3.0	5.0	4.0	6.0	5.0	8.0	5.0
24	8.5	7.5	4.0	3.0	3.5	3.0	4.5	4.0	6.0	5.0	8.5	6.0
25	8.5	7.5	4.5	3.5	3.5	2.5	4.5	4.0	5.0	4.0	8.0	7.0
26	8.0	7.5	5.0	4.0	3.0	2.0	5.0	4.0	5.5	3.0	7.5	6.0
27	9.0	8.0	5.0	4.0	3.5	2.5	4.5	4.0	5.0	3.0	6.5	5.0
28	8.5	8.0	4.5	3.5	3.5	2.5	4.5	3.5	5.0	2.5	7.5	6.0
29	9.0	8.0	4.0	3.5	3.5	2.5	4.5	3.0	---	---	8.0	6.0
30	8.5	7.5	4.5	3.5	3.5	2.5	4.5	3.5	---	---	8.5	6.5
31	9.0	8.5	---	---	4.0	3.0	5.0	4.0	---	---	7.5	6.0
MONTH	13.5	7.5	9.0	2.0	5.5	1.0	5.0	1.0	7.0	1.0	8.5	2.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.5	5.5	8.0	7.0	15.0	12.0	21.0	19.0	14.5	12.0	18.0	15.0
2	7.0	6.0	7.5	6.5	14.5	13.0	21.0	18.5	15.0	12.5	17.5	14.5
3	7.0	5.5	9.0	6.5	13.0	11.5	19.5	16.5	15.0	12.0	18.0	15.0
4	8.0	5.5	10.5	8.0	11.5	9.5	20.0	17.5	14.0	12.0	18.0	15.0
5	8.0	5.5	11.0	9.5	9.5	8.5	19.0	17.0	14.5	12.0	16.5	14.5
6	8.0	7.0	11.0	9.0	11.0	8.5	17.5	15.5	14.5	12.0	15.5	13.0
7	7.5	6.5	10.5	8.5	12.5	10.5	17.0	15.0	14.5	12.0	16.0	13.0
8	7.5	5.5	11.0	9.0	13.0	11.0	16.5	14.0	14.5	12.0	15.5	12.5
9	7.5	5.5	11.5	9.5	14.0	12.0	16.5	14.0	15.0	11.5	16.0	12.5
10	7.5	6.0	11.5	10.0	14.5	13.5	16.5	14.0	14.5	11.5	16.0	13.0
11	7.5	6.5	11.0	10.0	13.5	12.5	16.5	14.0	14.5	11.5	16.0	13.0
12	8.0	6.5	10.5	10.0	13.0	12.0	16.0	14.0	14.5	12.0	16.5	13.5
13	8.0	6.5	10.5	10.5	12.0	10.5	16.0	14.0	13.5	12.5	16.5	14.0
14	9.0	6.0	10.5	8.5	11.0	10.0	16.0	13.5	14.0	12.0	17.0	14.0
15	10.0	6.5	9.5	8.0	13.0	10.0	15.5	13.5	14.5	11.5	17.0	14.0
16	10.5	7.5	9.5	8.0	15.0	12.0	15.0	13.0	14.0	11.5	17.0	14.5
17	10.5	9.0	9.0	8.0	14.5	13.0	15.0	13.0	14.0	11.0	17.5	14.5
18	10.5	9.5	9.5	8.0	15.5	12.5	14.5	12.5	13.5	11.0	17.0	14.0
19	11.0	8.5	10.0	9.0	16.5	13.0	14.5	12.0	13.0	11.0	16.5	13.5
20	10.0	8.5	10.5	9.0	17.0	13.5	14.5	12.5	13.0	10.5	16.0	12.5
21	10.0	7.5	11.5	10.0	18.0	14.5	15.0	12.5	13.0	10.0	14.5	12.5
22	9.5	7.5	11.5	10.0	19.0	15.5	15.0	12.5	12.0	10.5	15.0	12.0
23	10.0	8.0	12.5	11.0	19.5	16.5	15.5	12.5	12.0	10.5	15.5	12.5
24	12.0	8.5	13.0	12.0	18.5	17.0	15.0	12.5	12.5	10.5	16.0	13.0
25	13.0	9.5	13.5	12.5	18.5	16.0	15.0	12.5	12.5	10.0	14.5	13.0
26	12.5	10.5	13.5	12.0	18.5	16.0	15.0	12.5	13.0	10.5	14.0	12.5
27	12.0	10.5	13.0	12.0	18.0	16.5	15.0	12.5	13.0	10.5	15.0	12.5
28	10.5	8.0	13.0	12.0	19.5	16.5	13.5	12.0	12.5	9.0	14.5	13.0
29	8.0	7.0	13.0	11.5	20.5	17.5	13.0	11.5	14.0	11.0	14.0	11.0
30	8.0	7.5	13.0	12.0	21.0	18.0	12.5	11.5	16.5	13.5	14.0	11.0
31	---	---	13.0	11.5	---	---	14.0	11.5	18.0	14.5	---	---
MONTH	13.0	5.5	13.5	6.5	21.0	8.5	21.0	11.5	18.0	9.0	18.0	11.0

PALOUSE RIVER BASIN

13345000 PALOUSE RIVER NEAR POTLATCH, ID

LOCATION.--Lat 46°54'55", long 116°57'00", in SW¼NE¼NW¼ sec.10, T.41 N., R.5 W., Latah County, Hydrologic Unit 17060108, on left bank 20 ft downstream from bridge on U.S. Highway 95, 1.0 mi downstream from Deep Creek, 2.0 mi west of Potlatch, and at mile 132.2.

DRAINAGE AREA.--317 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1914 to September 1919, December 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,455.11 ft above sea level (levels by Idaho Department of Highways). October 1914 to September 1919, water-stage recorder at site 0.2 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Low and medium flows regulated at millpond in Potlatch prior to 1974. Small amounts of water diverted for sprinkle irrigation systems above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,600 ft^3/s Feb. 9, 1996, gage height, 22.15 ft; minimum daily, 0.09 ft^3/s Sept. 24, 1973.

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)
May 1	0330	*1,690	*10.43

No peaks greater than base discharge.

Minimum, 1.8 ft^3/s Aug. 22, gage height, 4.70 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	22	29	25	25	e80	650	1290	46	27	11	3.1
2	45	21	24	24	27	87	531	762	44	23	11	3.1
3	34	20	29	24	28	96	465	550	44	21	9.5	2.9
4	22	21	18	25	39	91	409	432	51	19	9.3	2.8
5	18	29	24	37	97	168	337	357	91	18	7.3	2.8
6	16	37	21	45	130	238	333	303	75	18	7.7	4.3
7	15	28	20	36	e100	285	337	259	66	18	7.2	3.8
8	14	25	19	30	e80	336	331	228	56	18	6.4	3.5
9	14	27	19	31	e65	377	302	206	50	16	5.7	3.5
10	14	e24	16	29	54	324	268	186	45	13	5.6	3.4
11	14	e20	e16	27	46	287	318	167	43	13	5.4	3.3
12	14	e18	e13	27	e38	285	374	151	43	12	5.1	3.4
13	17	e14	e14	27	37	381	336	140	50	12	5.1	3.0
14	23	e14	e15	26	e32	484	287	137	48	11	4.7	3.1
15	27	e17	18	e24	34	304	255	264	43	10	4.8	2.9
16	20	e15	18	e20	32	277	241	232	39	12	5.3	2.9
17	17	e17	22	e20	31	225	270	184	37	16	5.2	2.8
18	16	e14	22	e22	39	219	335	158	33	19	4.1	2.9
19	15	e13	21	24	50	824	412	141	31	15	3.2	4.1
20	17	e14	20	24	58	869	394	127	29	13	2.6	4.5
21	28	e14	19	25	62	500	347	113	27	12	2.4	4.2
22	53	e14	21	27	108	375	308	103	25	12	2.0	4.0
23	32	e14	28	28	151	332	293	94	24	11	2.4	4.0
24	24	16	38	28	135	339	312	83	23	10	3.6	3.8
25	22	17	39	30	131	476	329	77	23	9.5	4.0	3.8
26	21	20	35	28	e110	586	359	65	23	8.8	4.2	4.6
27	19	24	30	27	e90	467	378	65	27	8.3	4.1	4.3
28	20	25	27	27	e75	438	444	64	52	7.9	3.8	5.8
29	23	25	26	25	---	453	453	61	50	8.3	3.6	6.7
30	26	29	24	25	---	393	571	53	33	9.3	3.5	7.1
31	24	---	25	26	---	353	---	49	---	9.6	3.0	---
TOTAL	684	608	710	843	1904	10949	10979	7101	1271	430.7	162.8	114.4
MEAN	22.1	20.3	22.9	27.2	68.0	353	366	229	42.4	13.9	5.25	3.81
MAX	53	37	39	45	151	869	650	1290	91	27	11	7.1
MIN	14	13	13	20	25	80	241	49	23	7.9	2.0	2.8
AC-FT	1360	1210	1410	1670	3780	21720	21780	14080	2520	854	323	227
CFSM	.07	.06	.07	.09	.21	1.11	1.15	.72	.13	.04	.02	.01
IN.	.08	.07	.08	.10	.22	1.28	1.29	.83	.15	.05	.02	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2001, BY WATER YEAR (WY)

MEAN	18.1	56.2	169	356	609	756	714	369	121	28.0	12.0	11.4
MAX	40.8	185	1057	2166	2546	2182	2065	1715	672	60.9	28.6	23.1
(WY)	1969	1996	1974	1974	1996	1972	1917	1917	1990	1916	1975	1985
MIN	3.80	8.63	20.3	13.6	43.9	74.2	90.4	42.2	23.3	3.89	1.08	2.07
(WY)	1974	1988	1977	1979	1994	1977	1992	1992	1992	1973	1994	1973

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1916 - 2001	
ANNUAL TOTAL	106660.8		35756.9			
ANNUAL MEAN	291		98.0		267	
HIGHEST ANNUAL MEAN					634	1974
LOWEST ANNUAL MEAN					38.8	1977
HIGHEST DAILY MEAN	4190	Feb 2	1290	May 1	13800	Feb 9 1996
LOWEST DAILY MEAN	6.4	Aug 28	2.0	Aug 22	.09	Sep 24 1973
ANNUAL SEVEN-DAY MINIMUM	6.6	Aug 25	2.9	Aug 19	.52	Aug 23 1973
ANNUAL RUNOFF (AC-FT)	211600		70920		193700	
ANNUAL RUNOFF (CFSM)	.92		.31		.84	
ANNUAL RUNOFF (INCHES)	12.52		4.20		11.46	
10 PERCENT EXCEEDS	930		336		762	
50 PERCENT EXCEEDS	50		26		54	
90 PERCENT EXCEEDS	12		4.2		8.8	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 - 1981, July to September 1989, 1991, water years 1993, 1995, April to September 1997, April to September 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to September 1998, May to September 2000 (discontinued).

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 29.2 °C July 17, 1998.

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles.
MESH SIZE.--425 um.

AVERAGE DEPTH.-- 0.17 m.

AVERAGE PERCENT SHADING.--33.

AVERAGE VELOCITY.-- 0.61 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--1-2.

PERCENT FINES AVERAGE.--10.

BIOLOGICAL DATA, SEPTEMBER 2000
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE Sept. 15	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION
NON-INSECTS			
Nematoda		12	0.28
Kincaidiana hexatheca		6	0.14
Gyraulus		12	0.28
Ostracoda		18	0.42
Gammarus		6	0.14
Acari		66	1.54
ODONATA			
Argia		42	0.98
EPHEMEROPTERA			
Acentrella insignificans		48	1.12
Baetis tricaudatus		36	0.84
Fallceon		12	0.28
Ephemerella inermis/infrequens		6	0.14
Epeorus albertae		12	0.28
Rhithrogena		336	7.83
Stenonema		24	0.56
Paraleptophlebia		24	0.56
PLECOPTERA			
Skwala		30	0.70
TRICHOPTERA			
Glossosoma		6	0.14
Cheumatopsyche		1332	31.05
Hydropsyche		942	21.96
Leucotrichia		6	0.14
LEPIDOPTERA			
Petrophila		60	1.40
COLEOPTERA			
Optioservus		438	10.21
Zaitzevia		18	0.42
DIPTERA			
Hemerodromia		24	0.56
Simulium		54	1.26
Antocha		6	0.14
Hexatoma		12	0.28
CHIRONOMIDAE			
Chironomidae-pupae		90	2.10
Cardiocladius		6	0.14
Cricotopus		162	3.78
Cricotopus Trifascia group		6	0.14
Eukiefferiella		12	0.28
Nanocladius		6	0.14
Orthocladius Complex		78	1.82
Potthastia Gaedii group		30	0.70
Psectrocladius		12	0.28
Rheotanytarsus		216	5.03
Synorthocladius		6	0.14
Thienemanniella		24	0.56
Thienemannimyia group		12	0.28
Tvetenia Discoloripes group		42	0.98

SUMMARY STATISTICS
TOTAL NUMBER OF TAXA 42
TOTAL INDIVIDUALS 4,290

PALOUSE RIVER BASIN

13346800 PARADISE CREEK AT UNIVERSITY OF IDAHO AT MOSCOW, ID

LOCATION.--Lat 46°43'55", long 117°01'24", in NE¼SE¼SE¼ sec.12, T.39 N., R.6 W., Latah County, Hydrologic Unit 17060108, on left bank, 36 ft upstream from county road crossing at northwest end of University of Idaho playing field, 0.6 mi upstream from Idaho-Washington State line, and 7.0 mi upstream from mouth.

DRAINAGE AREA.--17.7 mi^2.

PERIOD OF RECORD.--October 1978 to current year. Prior to October 1979, published as "at Moscow".

REVISED RECORDS.-WDR ID-87-1: 1979-81 (M).

GAGE.--Water-stage recorder. Datum of gage is 2,543.46 ft above sea level (levels by University of Idaho Engineering Dept.).

REMARKS.--No estimated daily discharges. Records fair except for discharges below 0.5 ft^3/s and above 50 ft^3/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 970 ft^3/s Feb. 9, 1996, gage height, 11.26 ft; minimum daily, 0.04 ft^3/s Nov. 29, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 900 ft^3/s Jan. 21, 1972, gage height, 9.87 ft (based on culvert computation).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 27	1400	*130	*6.83	No peaks greater than base discharge.			

Minimum daily, 0.14 ft^3/s Nov. 3, 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	.35	1.6	1.3	1.7	3.6	9.8	15	1.1	.54	.78	.21
2	1.3	.19	1.1	1.1	6.4	9.4	6.6	6.7	.90	.85	.34	.21
3	.87	.14	.73	.93	3.1	7.2	10	5.7	.90	.68	.36	.20
4	1.5	9.3	.68	1.8	15	5.7	7.8	4.8	3.2	.52	.38	.22
5	1.4	1.1	.43	5.5	12	9.8	6.0	4.2	2.3	.84	.32	.20
6	.31	.48	.33	3.6	11	11	8.4	3.7	1.9	1.2	.42	.19
7	.20	.34	.34	3.1	6.5	9.9	7.0	3.6	1.9	.84	.37	.24
8	.17	1.3	.31	2.0	4.0	9.4	7.7	3.3	1.0	1.0	.52	.20
9	.27	3.1	.30	1.8	2.7	9.6	6.2	3.1	.93	1.1	.32	.20
10	.50	1.2	.32	1.9	2.5	7.3	6.0	2.8	.73	.43	.30	.29
11	.38	.55	.36	2.0	2.2	6.2	13	2.5	1.2	.46	.27	.32
12	.21	.34	.22	1.9	1.8	5.1	7.3	2.4	.69	.41	.27	.20
13	.70	.41	.21	2.5	1.6	5.0	5.6	2.2	1.2	.50	.32	.20
14	.28	.55	.26	2.1	1.5	4.3	4.8	13	1.3	.66	.27	.29
15	.19	.31	.35	1.7	1.8	4.3	4.5	8.6	.60	.37	.27	.21
16	.63	.36	.62	1.5	2.3	7.1	4.3	6.1	.60	7.2	.31	.20
17	.22	.25	2.0	1.1	1.9	5.4	3.6	3.5	.47	1.4	.51	.22
18	.26	.19	.69	1.0	4.4	4.8	7.0	3.0	1.0	.53	.27	.22
19	1.2	.19	.41	1.2	6.0	16	5.6	2.6	1.5	.70	.25	.21
20	8.6	.23	.31	1.3	7.3	7.7	5.2	2.2	1.4	.77	.29	.22
21	4.4	.20	.35	2.3	9.3	5.5	4.2	2.1	1.6	.57	.33	.24
22	.33	.16	2.6	4.3	20	4.7	3.6	2.0	1.3	.56	.31	.27
23	.34	.14	8.6	3.0	18	4.0	3.3	1.8	2.0	1.2	.35	.28
24	.33	.21	5.7	3.5	12	3.8	3.4	1.6	1.2	.95	.32	.33
25	.20	.32	2.2	3.6	10	4.1	3.1	1.3	1.5	1.2	.31	.73
26	.42	2.5	1.8	2.6	8.4	4.3	3.0	1.2	1.2	1.5	.30	.63
27	.15	5.6	2.0	2.1	5.6	6.3	3.1	1.9	23	.41	.34	.49
28	4.8	1.6	1.5	1.7	4.2	9.1	8.7	2.2	3.2	.42	.49	9.3
29	1.3	3.0	1.3	1.6	---	4.8	4.7	1.3	1.2	.38	.27	.54
30	.36	3.1	1.4	1.3	---	3.9	31	1.2	.75	1.0	.27	.35
31	.25	---	2.0	1.6	---	9.5	---	1.0	---	.67	.27	---
TOTAL	50.07	37.71	41.02	66.93	183.2	208.8	204.5	116.6	61.77	29.86	10.70	17.61
MEAN	1.62	1.26	1.32	2.16	6.54	6.74	6.82	3.76	2.06	.96	.35	.59
MAX	18	9.3	8.6	5.5	20	16	31	15	23	7.2	.78	9.3
MIN	.15	.14	.21	.93	1.5	3.6	3.0	1.0	.47	.37	.25	.19
AC-FT	99	75	81	133	363	414	406	231	123	59	21	35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2001, BY WATER YEAR (WY)

MEAN	1.14	2.44	5.59	13.8	27.2	19.7	9.20	4.99	2.33	1.07	.97	.80
MAX	2.82	5.95	23.8	53.0	104	58.8	30.0	14.6	6.89	2.27	4.30	2.33
(WY)	1995	1996	1999	1997	1996	1989	1996	1996	1990	1993	1989	2000
MIN	.18	.24	.60	.37	1.56	2.07	2.06	.63	.73	.34	.34	.21
(WY)	1979	1988	1986	1979	1994	1994	1987	1992	1992	1994	1980	1991

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1979 - 2001	
ANNUAL TOTAL	2969.09		1028.77			
ANNUAL MEAN	8.11		2.82		7.33	
HIGHEST ANNUAL MEAN					16.8	1996
LOWEST ANNUAL MEAN					1.41	1994
HIGHEST DAILY MEAN	213	Feb 2	31	Apr 30	755	Feb 8 1996
LOWEST DAILY MEAN	.14	Nov 3	.14	Nov 3	.04	Nov 29 1987
ANNUAL SEVEN-DAY MINIMUM	.19	Nov 18	.19	Nov 18	.08	Oct 29 1987
ANNUAL RUNOFF (AC-FT)	5890		2040		5310	
10 PERCENT EXCEEDS	23		7.5		16	
50 PERCENT EXCEEDS	1.6		1.3		1.5	
90 PERCENT EXCEEDS	.34		.25		.28	

Discharge measurements made at miscellaneous sites during water year 2001.

Station	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Owyhee River Basin						
Owyhee River below State Line near Three Forks, OR 422015117024000	Snake River	Lat 42°20'15", long 117°02'40", in $SW^1/_4SW^1/_4$ sec.24, T.37 S., R.48 E., Malheur County, Oregon, Hydrologic Unit 17050107, Beaver Charlie Breaks quad., about 1.2 mi below the Idaho-Oregon state line.	--	--	4- 9-2001 6-27-2001	534 84.2
Owyhee River above West Little Owyhee River near Three Forks, OR 422650117121800	Snake River	Lat 42°26'50", long 117°12'18", in $SE^1/_4NE^1/_4$ sec.35, T.36 S., R.47 E., Malheur County, Oregon, Hydrologic Unit 17050107, Drummond Basin quad., about 0.2 mi above West Little Owyhee River, and about 7 mi southwest of Three Forks, Oregon.	--	--	4-10-2001 6-26-2001	463 86.4
West Little Owyhee River at mouth near Three Forks, OR 422649117121900	Owyhee River	Lat 42°26'49", long 117°12'19", in $NW^1/_4NE^1/_4$ sec.16, T.36 S., R.47 E., Malheur County, Oregon, Hydrologic Unit 17050107, Drummond Basin quad., about 300 ft above mouth, and about 7 mi southwest of Three Forks, Oregon.	--	--	4-10-2001 6-26-2001	31.0 0.54
Owyhee River above North Fork at Three Forks, OR 13177900	Snake River	Lat 42°32'40", long 117°10'10", in $SW^1/_4SW^1/_4$ sec.35, T.34 S., R.45 E., Malheur County, Oregon, Hydrologic Unit 17050107, Three Forks quad., about 300 ft above North Fork Owyhee River at Three Forks, Oregon.	--	--	4-17-2001 6-25-2001	1,260 116
North Fork Owyhee River at Three Forks, OR 13177920	Owyhee River	Lat 42°32'40", long 117°10'05", in $SW^1/_4SW^1/_4$ sec.35, T.34 S., R.45 E., Malheur County, Oregon, Hydrologic Unit 17050107, Three Forks quad., about 200 ft above mouth at Three Forks, Oregon.	--	--	4-17-2001 6-25-2001	281 12.7
Owyhee River above Jordan Cr at Highway 95 at Rome, OR 425017117374900	Snake River	Lat 42°50'17", long 117°37'49", in $NW^1/_4NW^1/_4$ sec.30, T.31 S., R.42 E., Malheur County, Oregon, Hydrologic Unit 17050107, Scott Reservoir quad., about 0.1 mi above Highway 95 at raft launching site, and at Rome, Oregon.	--	--	6-28-2001	148
Jordan Creek at Rome, OR 13180600	Owyhee River	Lat 42°51'50", long 117°38'20", in $SE^1/_4NW^1/_4$ sec.13, T.31 S., R.41 E., Malheur County, Oregon, Hydrologic Unit 17050107, Rome quad., about 0.2 mi above mouth, 0.5 mi upstream from gage on Owyhee River (13181000), and 1.8 mi north of Rome, Oregon.	--	--	4- 2-2001 6-27-2001	57.8 19.5
Owyhee River below Crooked Creek near Rome, OR 425442117432100	Snake River	Lat 42°54'42", long 117°43'21", in $NE^1/_4$ sec.32, T.30 S., R.41 E., Malheur County, Oregon, Hydrologic Unit 17050107, Owyhee Butte quad., 2 mi below Crooked Creek, and 4.5 mi northwest of Rome, Oregon.	--	1946	4-12-2001 6-28-2001	779 191
Owyhee River above Bull Creek near Crowley, OR 430631117425900	Snake River	Lat 43°06'31", long 117°42'59", in $NE^1/_4$ sec.24, T.29 S., R.41 E., Malheur County, Oregon, Hydrologic Unit 17050110, Lambert Rocks quad., about 0.1 mi upstream from Bull Creek, and 15.5 mi southwest of Crowley.	--	--	4-12-2001 6-28-2001	923 248
Owyhee River above Owyhee Reservoir, OR 13182000	Snake River	Lat 43°13'35", long 117°29'45", in $NW^1/_4SW^1/_4$ sec.33, T.27 S., R.43 E., Malheur County, Oregon, Hydrologic Unit 17050110, at old gage site 3 mi upstream from flow line of Owyhee Reservoir, and 26 mi northeast of Rome, Oregon.	--	1931-51‡	6-29-2001	287

‡ Continuous record
a Approximately
b Crest-stage gage

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream when continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Measured previously" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record sites during water year 2001.

Station	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Kootenai River Basin						
Round Prarie Creek near Eastport 12306800	Kootenai River	Lat 48°57'57", long 116°12'15", in $SW^1/_4SE^1/_4SE^1/_4$ sec.21, T.65 N., R.2 E., Boundary County, Hydrologic Unit 17010105, Idaho Panhandle National Forests, 0.4 mi downstream from Robinson Lake, 2.5 mi south of Eastport, and at mile 2.5.	--	1974-78, 1995	8-29-2001	0.37
Pend Oreille River Basin						
Trapper Creek near Clark Fork 12392100	Lightning Creek	Lat 48°15'54", long 116°07'07", in $NE^1/_4$ sec.30, T.57 N., R.3 E., Bonner County, Hydrologic Unit 17010213, Idaho Panhandle National Forests, at U.S. Forest Service road, and 9.8 mi north of Clark Fork.	1.12	1962-71, 1974-81, 1994	9- 5-2001	0.00
Grouse Creek near Colburn 12392350	Pend Oreille River	Lat 48°24'26", long 116°26'15", in $NE^1/_4NW^1/_4SW^1/_4$ sec.2, T.58 N., R.1 W., Bonner County, Hydrologic Unit 17010214, 2.0 mi upstream from mouth, and 4.0 mi east of Colburn.	55.6	1958-65, 1974-76, 1978,1980	9- 5-2001	5.07
Rapid Lightning Creek near Colburn 12392450	Pack River	Lat 48°22'02", long 116°24'06", in $SE^1/_4SW^1/_4NE^1/_4$ sec.24, T.58 N., R.1 W., Bonner County, Hydrologic Unit 17010214, 0.3 mi upstream from mouth, and 6.0 mi southeast of Colburn.	48.6	1958-65, 1974-80, 1989-90‡, 1994	9- 5-2001	8.02
Indian Creek near Coolin 12392950	Priest River	Lat 48°37'37", long 116°49'14", in $NW^1/_4SE^1/_4NW^1/_4$ sec.23, T.61 N., R.4 W., Bonner County, Hydrologic Unit 17010215, Idaho Panhandle National Forests, 1.5 mi upstream from mouth, and 11 mi north of Coolin.	20	1948,1973, 1975-78, 1987-89, 1994	8-27-2001	6.80
Binarch Creek near Coolin 12393600	Priest River	Lat 48°28'10", long 116°55'20", in $NE^1/_4$ sec.13, T.59 N., R.5 W., Bonner County, Hydrologic Unit 17010215, at State Highway 57, 3 mi west of Coolin.	10.7	1962-71, 1973-81, 1994	8-27-2001	2.63
Spokane River Basin						
Little North Fork Coeur d'Alene River near Enaville 12412600	North Fork Coeur d'Alene River	Lat 47°36'38", long 116°14'23", in $SW^1/_4NW^1/_4$ sec.8, T.49 N., R.2 E., Shoshone County, Hydrologic Unit 17010301, 150 ft upstream from mouth, and 3 mi north of Enaville.	--	1914,1934, 1939,1940, 1973, 1975-78, 1992	9-10-2001	18.0
South Fork Coeur d'Alene River above Deadman Gulch near Mullan 12413040	Coeur d'Alene River	Lat 47°28'24", long 115°45'56", in $SW^1/_4SE^1/_4SW^1/_4$ sec.25, T.48 N., R.5 E., Shoshone County, Mullan quad., Hydrologic Unit 17010302, 50 ft upstream from county road bridge, 150 ft upstream from Deadman Gulch, and 1.2 mi east of Mullan.	--	1999-2000‡	10-11-2000	9.88
Boulder Creek at Mullan 12413100	South Fork Coeur d'Alene River	Lat 47°28'11", long 115°47'45", in $NE^1/_4SE^1/_4NE^1/_4$ sec.34, T.48 N., R.5 E., Shoshone County, Hydrologic Unit 17010302, at U.S. Highway I-90 crossing in Mullan.	3.13	1961-71, 1973-81, 1994	9-12-2001	0.83
Montgomery Creek near Kellogg 12413200	South Fork Coeur d'Alene River	Lat 47°33'19", long 116°04'22", in $SE^1/_4NE^1/_4$ sec.34, T.49 N., R.3 E., Shoshone County, Coeur d'Alene National Forest, at forest road crossing and 2.5 mi northeast of Kellogg.	4.53	1962-71, 1973-80	9-10-2001	0.10

Discharge measurements made at low-flow partial-record sites during water year 2001.

Station	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Spokane River Basin--Continued				
Latour Creek above Baldy Creek near Cataldo 12413700	Coeur d'Alene River	Lat 47°28'10", long 116°26'20", in $NE^1/_4$ sec.34, T.48 N., R.1 W., Kootenai County, Hydrologic Unit 17010303, at BLM road bridge, 0.4 mi upstream from Baldy Creek, 7.8 mi southwest of Cataldo, and at mile 6.5.	24.8	1967-71‡, 1973-81b, 1973, 1975-78, 1980, 1987-88, 1992,1994	9-17-2001 10- 5-2001	3.31 4.07
Fourth of July Creek above Bently Creek near Cataldo 12413800	Coeur d'Alene River	Lat 47°34'25", long 116°26'32", in $SE^1/_4$ sec.22, T.49 N., R.1 W., Kootenai County, Hydrologic Unit 17010303, at State Highway 3 crossing, 2.2 mi upstream from mouth, 3 mi northeast of Rose Lake, and 5.5 mi northwest of Cataldo.	16.5	1959,1973, 1975-76, 1978	9-17-2001 10- 5-2001	0.52 0.44
Marble Creek near Calder 12414200	St. Joe River	Lat 47°13'38", long 116°01'12", in $SE^1/_4NW^1/_4SW^1/_4$ sec.24, T.45 N., R.3 E., Shoshone County, Hydrologic Unit 17010304, 70 ft downstream from Boulder Creek, 2 mi upstream from mouth, 8 mi southeast of Calder, and 27 mi southeast of St. Maries.	138	1983-88‡, 1992,1994	9-18-2001 10- 5-2001	45.0 45.7
Falls Creek near St. Joe 12414750	St. Joe River	Lat 47°49'15", long 116°17'51", in $SE^1/_4SE^1/_4NE^1/_4$ sec.31, T.46 N., R.1 E., Shoshone County, Hydrologic Unit 17010304, 60 ft from mouth, 150 ft downstream from county bridge, and 3.0 mi east of St. Joe.	10.8	1959, 1974-76, 1978	9-18-2001 10- 5-2001	2.66 2.37
Bond Creek at St. Joe 12414800	St. Joe River	Lat 47°18'25", long 116°20'34", in $N^1/_2$ sec.28, T.46 N., R.1 E., Benwah County, Hydrologic Unit 17010304, at road crossing, 0.5 mi southeast of St. Joe, and 0.8 mi upstream from mouth.	2.43	1959, 1973-76, 1978	9-18-2001 10- 5-2001	2.39 2.16
Cherry Creek near St Maries 12415100	St. Joe River	Lat 47°19'00", long 116°36'47", in $SE^1/_4SW^1/_4SE^1/_4$ sec.20, T.46 N., R.2 W., Benwah County, Hydrologic Unit 17010304, 80 ft upstream from State Highway 5 crossing, and 2.0 mi west of St. Maries.	7.07	1961-71b, 1972, 1974-76, 1978,1980	9-18-2001	0.08
Plummer Creek tributary at Plummer 12415200	Plummer Creek/ Chatcolet Lake	Lat 47°20'19", long 116°53'17", in $SW^1/_4$ sec.7, T.46 N., R.4 W., Benwah County, Hydrologic Unit 17010304, at U.S. Highway 95, and 0.2 mi north of Plummer.	2.10	1961-81	8-29-2001	0.01
Mica Creek near Coeur d'Alene 12415300	Coeur d'Alene Lake	Lat 47°36'00", long 116°52'53", in $S^1/_2$ sec.8, T.49 N., R.4 W., Kootenai County, Hydrologic Unit 17010303, at road crossing 1.0 mi upstream from mouth, and 7.0 mi southwest of Coeur d'Alene.	23.1	1959,1973, 1975-76, 1978,1980, 1989	8-29-2001	1.20
Hangman Creek near Tensed 12422950	Spokane River	Lat 47°11'24", long 117°01'06", in $SW^1/_4NE^1/_4NW^1/_4$ sec.6, T.44 N., R.5 W., Benwah County, Hydrologic Unit 17010306, at county road bridge, 2 mi downstream from Andrews Spring Creek, 3.25 mi upstream of Tekoa, Washington, and 5 mi downstream of Tensed.	125	1974-78, 1981-82‡, 1989-90‡, 1994	8-29-2001	0.25
		Snake River Basin				
Little Canyon Creek at Stout Crossing near Glenns Ferry 13155300	Snake River	Lat 43°09'14", long 115°18'32", in $NE^1/_4NW^1/_4NE^1/_4$ sec.19, T.3 S., R.10 E., Elmore County, Hydrologic Unit 17050101, at county road crossing, and 13.8 mi north of Glenns Ferry.	14.2	1961-65, 1966-71‡, 1973-80, 1987-88	8-28-2001	0.004

Discharge measurements made at low-flow partial-record sites during water year 2001.

Station	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Bruneau-Jarbidge River Basins						
Jarbidge River at Buck Creek near Murphy Hot Springs 13162300	Bruneau River	Lat 42°00'30", long 115°25'00", in $NW^1/_4$ sec.28, T.16 S., R.9 E., Owyhee County, Hydrologic Unit 17050102, at Buck Creek bridge, and 3 mi southwest of Murphy Hot Springs.	--	1961-66b, 1973, 1975-76, 1978, 1980-81	8-30-2001	6.53
East Fork Jarbidge River near Three Creek 13162500	Jarbidge River	Lat 42°02'00", long 115°22'20", in $SE^1/_4SE^1/_4$ sec.14, T.16 S., R.9 E., Owyhee County, on left bank .2 mi (0.3 km) downstream from Murphy Hot Springs, 2.0 mi (3.2 km) upstream from mouth, and 11 mi (17.6 km) southwest of Three Creek.	84.6	1928-33‡, 1953-71‡, 1974-78, 1980	8-30-2001	5.99
Sinker Creek Basin						
Sinker Creek above Scotch Bob Creek near Murphy 13172290	Snake River	Lat 43°03'52", long 116°38'06", in $NW^1/_4SE^1/_4NE^1/_4$ sec.24, T.4 S., R.3 W., Owyhee County, Hydrologic Unit 17050103, at Silver City road crossing, 50 ft upstream from Scotch Bob Creek, 6 mi northeast of Silver City, and 11.2 mi southwest of Murphy.	--	1975-78, 1980	9-11-2001	0.00
Owyhee River Basin						
North Fork Owyhee River at Fairylawn 13177910	Owyhee River	Lat 42°35'30", long 116°58'52", in $NW^1/_4SW^1/_4SW^1/_4$ sec.31, T.9 S., R.5 W., Owyhee County, Hydrologic Unit 17050107, at road crossing, 26 mi south of Jordan Valley, Oregon.	--	1989,1991, 1993	9-11-2001	1.28
Jordan Creek at DeLamar Mine near Jordan Valley, OR 13177985	Owyhee River	Lat 43°01'26", long 116°51'19", in $NW^1/_4NW^1/_4NE^1/_4$ sec.6, T.5 S., R.4 W., Owyhee County, Hydrologic Unit 17050108, 0.2 mi below road crossing to DeLamar Mine, and 10.5 mi northeast of Jordan Valley, Oregon.	--	1991, 1994-96‡	9-11-2001	0.03
Boise River Basin						
Roaring River near Rocky Bar 13184200	Middle Fork Boise River	Lat 43°42'59", long 115°27'56", in $NE^1/_4NE^1/_4$ sec.2, T.4 N., R.8 E., Elmore County, Hydrologic Unit 17050111, 6 mi (9.6 km) upstream from mouth, and 9 mi northeast of Rocky Bar.	23.3	1958, 1963-71b 1973-80b, 1987-88, 1992	8-23-2001	7.99
Beaver Creek near Lowman 13184800	Crooked River	Lat 43°58'20", long 116°36'27", in $SE^1/_4$ sec.3, T.7 N., R.7 E., Boise County, Hydrologic Unit 17050111, at State Highway 21 junction with road to Beaver Creek guard station, and 7.5 mi south of Lowman.	--	1962-71b, 1980, 1987-88	8-27-2001	1.17
Sheep Creek at mouth near Twin Springs 13184955	Boise River	Lat 43°39'59", long 115°41'60", in $NE^1/_4SE^1/_4$ sec.7, T.4 N., R.7 E., Boise County, Hydrologic Unit 17050112, 200 ft upstream from mouth, and 2.5 mi northeast of Twin Springs.	--	1977, 1980 1987-88	8-22-2001	0.13
Cottonwood Creek at Arrowrock Dam 13185500	South Fork Boise River	Lat 43°38'02", long 115°49'28", in $NW^1/_4NE^1/_4$ sec.2, T. 3 N., R. 5 E., Boise CVounty, at flow line of Arrowrock Reservoir, just downstream from unnamed tributary, 0.8 mi (1.1 km) downstream from Cottonwood Ranger Station, and 5.5 mi (8.8 km) northeast of Arrowrock Dam.	55.3	1912, 1914-18‡, 1929, 1939-41‡, 1955, 1976-77	8-22-01	0.635
Fall Creek near Anderson Ranch Dam 13187000	South Fork Boise River	Lat 43°25'53", long 115°23'05", in $SE^1/_4$ sec.9, T.1 N., R.9 E., Elmore County, Hydrologic Unit 17050113, 1.5 mi upstream from Castle Creek, 2 mi upstream from the mouth, and 5 mi southwest of Pine.	55.3	1942, 1945-56‡, 1975-78, 1987-89	8-23-2001	6.65

Discharge measurements made at low-flow partial-record sites during water year 2001.

Station	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Boise River Basin--Continued				
Grouse Creek near Arrowrock Dam 13193500	South Fork Boise River	Lat 43°34'40", long 115°54'33", in $NW^1/_4SE^1/_4SW^1/_4$ sec.19, T.3 N., R.5 E., Elmore County, Hydrologic Unit 17050112, 400 ft above high flow line of Arrowrock Reservoir, and 1.4 mi southeast of Arrowrock Dam.	--	1939-42‡, 1976-78	8-22-2001	0.01
Grimes Creek at mouth near Idaho City 13199800	Mores Creek	Lat 43°43'35", long 115°57'11", in $SW^1/_4SW^1/_4NW^1/_4$ sec.35, T.5 N., R.4 E., Boise County, Hydrologic Unit 17050112, 200 ft upstream from mouth, and 9 mi southwest of Idaho City.	--	1973, 1975-78, 1980-81	8-27-2001	3.66
Robie Creek near Arrowrock Dam 13200500	Mores Creek	Lat 43°37'49", long 115°59'51", in $NE^1/_4$ sec.5, T.3 N., R.4 E., Boise County, Hydrologic Unit 17050112, at mile 0.5, and 5 mi northwest of Arrowrock Dam.	15.8	1950-71‡, 1973, 1975-78	8-22-2001	0.04
		Payette River Basin				
Fivemile Creek near Lowman 13234300	South Fork Payette River	Lat 44°06'03", long 115°27'23", in $NE^1/_4$ sec.24, T.9 N., R.8 E., Boise County, Hydrologic Unit 17050120, at State Highway 21 crossing, and 8.5 mi east of Lowman.	7.8b	1961, 1962-71a, 1973-81a	8-27-2001	3.79
Clear Creek at Lowman 13234500	South Fork Payette River	Lat 44°04'57", long 115°36'45", in $SW^1/_4SE^1/_4$ sec.27, T.9 N., R.7 E., Boise County, Hydrologic Unit 17050120, Boise National Forest, at State Highway 21 bridge in Lowman, and 550 ft upstream from mouth.	59.6	1921-22, 1925, 1941-49‡, 1975-78, 1980, 1987-89	8-27-2001	23.0
Rock Creek at Lowman 13235100	South Fork Payette River	Lat 44°04'58", long 115°37'30", in $NE^1/_4$ sec.33, T.9 N., R.7 E., on dirt road 0.5 mi west of Lowman.	14.6	1961-71, 1973, 1975-78, 1980, 1987-88	8-27-2001	3.16
Danskin Creek near Grimes Pass 13237300	South Fork Payette River	Lat 44°03'38", long 115°49'11", in $NW^1/_4$ sec.1, T.8 N., R.5 E., Boise County, Hydrologic Unit 17050120, Boise National Forest, at Banks-Lowman road crossing, and 2 mi northeast of Grimes Pass.	10.1	1961-71b, 1973, 1975-78, 1980, 1987-89	8-27-2001	0.53
Cabin Creek near Smiths Ferry 13237600	Silver Creek	Lat 44°20'53", long 115°47'16", in $NE^1/_4SE^1/_4NW^1/_4$ sec.30, T.12 N., R.6 E., Valley County, Hydrologic Unit 17050121, Boise National Forest, 0.2 mi upstream from mouth, 1.2 mi downstream from Silver Creek guard station, and 13 mi east of Smiths Ferry.	0.42	1960-67‡, 1973-78, 1980-81	8-31-2001	0.00
Deep Creek near McCall 13238300	North Fork Payette River	Lat 45°06'00", long 116°02'20", in $NW^1/_4NE^1/_4SW^1/_4$ sec.1, T.20 N., R.3 E., Valley County, Hydrologic Unit 17050123, Payette National Forest, at forest road crossing, and 13 mi north of McCall.	4.38	1961-71, 1973, 1975-78	8-28-2001	e0.1
Tripod Creek at Smiths Ferry 13245400	North Fork Payette River	Lat 44°17'55", long 116°05'21", in $SE^1/_4$ sec.10, T.11 N., R.3 E., Valley County, Hydrologic Unit 17050123, at State Highway 55, at Smiths Ferry.	8.63	1961, 1962-71b, 1973-80b, 1992	8-31-2001	0.18
Porter Creek near Gardena 13247000	Payette River	Lat 43°56'51", long 116°11'35", in $SE^1/_4NW^1/_4NE^1/_4$ sec.14, T.7 N., R.2 E., Boise County, Hydrologic Unit 17050122, 0.6 mi upstream from mouth, and 2 mi south of Gardena.	21.2	1938-45‡, 1956, 1974-79, 1980,1992	8-31-2001	0.00

Discharge measurements made at low-flow partial-record sites during water year 2001.

Station	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Salmon River Basin						
Salmon River at head near Obsidian 13292200	Snake River	Lat 43°53'03", long 114°45'47", in $NE^1/_4NE^1/_4NE^1/_4$ sec.1, T.6 N., R.13 E., (unsurveyed), Blaine County, Hydrologic Unit 17060201, Sawtooth National Forest, at U.S. Highway 93 crossing, 0.3 mi upstream from French Creek, and 14 mi south of Obsidian.	17.5	1971-73, 1971-77, 1980, 1987	10-10-2000 8-27-2001	139 4.44
Beaver Creek near Stanley 13292400	Salmon River	Lat 43°55'10", long 114°48'48", in $NE^1/_4NE^1/_4NE^1/_4$ sec.21, T.7 N., R.14 E., Blaine County, Hydrologic Unit 17060201, at U.S. Highway 93 crossing, about 0.3 mi north of Beaver Creek Store, and 23.5 mi southeast of Stanley.	15.0	1962-71b, 1972-73, 1975-78	10-11-2000	4.33
Salmon River at Highway 93 above Redfish Creek near Stanley 13293800	Salmon River	Lat 44°09'50", long 114°53'10", in $NE^1/_4$ sec.25, T.10 N., R.13 E., Custer County, Hydrologic Unit 17060201, Sawtooth National Forest, at U.S. Highway 93 crossing, and 4.5 mi southeast of Stanley.	--	1957-58, 1973, 1975-78	8-27-2001	105
Redfish Lake Creek below Redfish Lake near Stanley 13293900	Salmon River	Lat 44°09'20", long 114°54'40", in $NE^1/_4SW^1/_4NW^1/_4$ sec.35, T.10 N., R.13 E., Custer County, Hydrologic Unit 17060201, Sawtooth National Forest, at bridge 1.1 mi downstream from store at Redfish Lake, and 4.5 mi south of Stanley.	--	1957-59, 1973, 1975-78	8-27-2001	28.7
Yankee Fork Salmon River near Clayton 13296000	Salmon River	Lat 44°17'15", long 114°43'11", in $NE^1/_4SW^1/_4$ sec.17, T.11 N., R.15 E., (unsurveyed), Custer County, Hydrologic Unit 17060201, Challis National Forest, at Sunbeam-Custer bridge, 1.8 mi north of Sunbeam, 1.9 mi upstream from mouth, and 12 mi northeast of Stanley.	195	1921-49‡, 1971-73, 1975-78, 1987-88	8-28-2001	40.5
Big Boulder Creek near Clayton 13297500	East Fork Salmon River	Lat 44°06'55", long 114°26'29", in $SW^1/_4NW^1/_4NE^1/_4$ sec.15, T.9 N., R.17 E., Custer County, Hydrologic Unit 17060201, 0.15 mi above East Fork Salmon/Big Boulder Creek sign, and 17.75 mi upstream from Highway 75 at East Fork Salmon River.	24.7	1926-30‡, 1971-73, 1976-78, 1980-81	9- 3-2001	9.05
East Fork Salmon River near Clayton 13298000	Salmon River	Lat 44°13'29", long 114°07'10", in $NW^1/_4NE^1/_4SW^1/_4$ sec.1, T.10 N., R.18 E., Custer County, Hydrologic Unit 17060201, at county road crossing, 6 mi southeast of Clayton, and 3.8 mi upstream from Highway 75.	532	1929-39‡, 1971-73, 1973-81‡, 1987-89, 1993-94	9- 3-2001	47.2
Big Creek above diversions near Patterson 13301500	Pahsimeroi River	Lat 44°26'36", long 113°36'32", in $SE^1/_4SE^1/_4NE^1/_4$ sec.21, T.13 N., R.24 E., Lemhi County, Hydrologic Unit 17060202, just downstream from footbridge, 0.4 mi downstream from confluence of North and South Forks, 2.9 mi from Big Creek sign, and 7 mi southeast of Patterson.	54.8	1910-13‡, 1938, 1971-73, 1975-78, 2000	9- 4-2001	22.4
Morse Creek above diversions near May 13301700	Pahsimeroi River	Lat 44°36'32", long 113°49'02", in $SW^1/_4$ sec.24, T.15 N., R.22 E., Custer County, Hydrologic Unit 17060202, above diversions, at campground, just upstream from mouth of canyon, about 5 mi east of May, and 10.3 mi upstream from Highway 75.	18.0	1962-71b, 1973-78b, 1981,2000	9- 4-2001	6.24
Lake Creek above Williams Lake, near Salmon 13302180	Salmon River	Lat 45°01'00", long 113°59'38", in $NW^1/_4SW^1/_4$ sec.33, T.20 N., R.21 E., Lemhi County, Hydrologic Unit 17060203, Salmon National Forest, 0.2 mi upstream from Williams Lake, 3.2 mi upstream from mouth, and 12 mi southwest of Salmon.	--	1973, 1975-78, 1981	10- 4-2000	2.94

Discharge measurements made at low-flow partial-record sites during water year 2001.

Station	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Salmon River Basin--Continued				
Texas Creek near Leadore 13303000	Lemhi River	Lat 44°35'10", long 113°19'45", in $NW^1/_4SW^1/_4$ sec.35, T.15 N., R.26 E., Lemhi County, Hydrologic Unit 17060204, 50 ft downstream from Nez Perce Creek, 0.5 mi upstream from county road bridge, and 6.5 mi south of Leadore.	71.4	1938-39‡, 1955-63‡, 1965,1973, 1975-78, 1980-81	10- 2-2000 9- 4-2001	13.7 13.0
Dahlonega Creek at Gibbonsville 13305700	North Fork Salmon River	Lat 45°32'50", long 113°55'40", in $NW^1/_4$ sec.36, T.26 N., R.21 E., Lemhi County, Hydrologic Unit 17060203, Salmon National Forest, at U.S. Highway 93, and 0.2 mi southwest of Gibbonsville.	a32	1962-71b, 1973, 1975-78	10- 2-2000	7.02
Hughes Creek near North Fork 13305800	North Fork Salmon River	Lat 45°31'11", long 114°02'02", T.25 N., R.21 E., (unsurveyed), Lemhi County, Hydrologic Unit 17060203, Salmon National Forest, Allan Mountain Quad., at culvert, just upstream from West Fork Hughes Creek and Allen Creek, 3.9 mi northwest of U.S. Highway 93 near North Fork Ranger Station, and 8.0 mi northwest of North Fork.	15.7	1962-80b, 1962-81, 1987-88	9- 5-2001	3.63
North Fork Salmon River at North Fork 13306000	Salmon River	Lat 45°24'23", long 113°59'40", in $SW^1/_4$ sec.16, T.24 N., R.21 E., Lemhi County, Hydrologic Unit 17060203, 150 ft below Highway 93 bridge, and 0.2 mi northwest of North Fork.	214	1929-40‡, 1980, 1987-89, 1992,1994	10- 2-2000 9- 5-2001	66.2 26.0
Panther Creek below Big Deer Creek near Salmon 13306440	Salmon River	Lat 45°10'38", long 114°18'57", in $SW^1/_4NE^1/_4SW^1/_4$ sec.2, T.21 N., R.18 E.(unsurveyed), Lemhi County, Hydrologic Unit 17060203, Salmon National Forest, at cableway, just below Big Deer Creek, 7.0 mi northwest of Blackbird Townsite, and 20.2 mi west of Salmon.	--	1971,1973, 1975-78	10- 3-2000 9- 5-2001	64.8 45.0
Salmon River near Shoup 13307000	Snake River	Lat 45°19'20", long 114°26'28", in $NE^1/_4SW^1/_4$ sec.14, T.23 N., R.17 E., Lemhi County, Hydrologic Unit 17060203, Salmon National Forest, 0.6 mi upstream from Owl Creek, 2.3 mi downstream from Panther Creek, 9 mi southwest of Shoup, and at mile 207.8.	6,270	1944-82‡, 2000	9- 5-2001	572
Owl Creek near Shoup 13307050	Salmon River	Lat 45°19'05", long 114°26'55", in $SE^1/_4NW^1/_4$ sec.14, T.23 N., R.17 E.(unsurveyed), Lemhi County, Hydrologic Unit 17060203, Salmon National Forest, 80 ft above bridge at forest road crossing, and 9.3 mi southwest of Shoup.	--	1973, 1975-78 2000	10- 3-2000 9- 5-2001	18.4 9.51
Marsh Creek near Cape Horn 13308500	Middle Fork Salmon River	Lat 44°24'33", long 115°10'58", in $NE^1/_4$ sec.4, T.12 N., R.11 E., Custer County, Hydrologic Unit 17060205, Challis National Forest, 0.35 mi downstream from Lola Creek, at Lola Creek campground, 3.1 mi north of Bruce Meadows turnoff to Bear Valley Creek, 0.5 mi downstream from confluence of Marsh and Beaver Creeks, 2 mi northwest of Cape Horn, and at mile 110.3. (previously published as Middle Fork Salmon River)	138	1928-72‡, 1973, 1975-78 1980	9- 3-2001	58.9
Bear Valley Creek near Cape Horn 13309000	Middle Fork Salmon River	Lat 44°25'35", long 115°17'45", in sec.29, T.13 N., R.10 E., Valley County, Hydrologic Unit 17060205, Boise National Forest, 0.25 mi upstream from Fir Creek, near Fir Creek campground, 3 mi upstream from mouth, and 7 mi northwest of Cape Horn.	a180	1921-61‡, 1973, 1975-78, 1980	9- 3-2001	52.2
South Fork Salmon River near Knox 13310500	Salmon River	Lat 44°39'15", long 115°42'05", in $NW^1/_4$ sec.11, T.15 N., R.6 E., Valley County, Hydrologic Unit 17060208, Boise National Forest, 800 ft downstream from Curtis Creek, and 21 mi northeast of Cascade.	a92	1928-61‡, 1973-78, 1980,1988	8-22-2001	23.9

Discharge measurements made at low-flow partial-record sites during water year 2001.

Station	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Salmon River Basin--Continued				
Dollar Creek near Warm Lake near Cascade 13310520	South Fork Salmon River	Lat 44°43'13", long 115°41'41", in $SE^1/_4NE^1/_4SW^1/_4$ sec.14, T.16 N., R.5 E., Valley County, Hydrologic Unit 17060208, at upstream side of bridge, 6.2 mi north of junction of Warm Lake Road and South Fork Salmon Road, and 19 mi east of Donnelly.	16.5	1990-94‡,	8-23-2001	5.39
Blackmare Creek near Poverty Flat near Cascade 13310565	South Fork Salmon River	Lat 44°49'20", long 115°42'18", in $SW^1/_4NW^1/_4SW^1/_4$ sec.11, T.17 N., R.6 E., Valley County, Hydrologic Unit 17060208, 300 ft upstream from confluence with South Fork Salmon River at Poverty Flat, 14.3 mi north of junction of Warm Lake Road and South Fork Road, 21 mi southeast of McCall, and at mile 56.0.	17.8	1990-94‡,	8-23-2001	6.86
South Fork Salmon River at Poverty Flat near Cascade 13310570	South Fork Salmon River	Lat 44°49'56", long 115°42'16", in $SW^1/_4SW^1/_4SW^1/_4$ sec.2, T.17 N., R.6 E., Valley County, Hydrologic Unit 17060208, 16.5 mi north of junction of Warm Lake Road and South Fork Salmon Road, 21 mi southeast of McCall, and at mile 55.0.	221.5	1990-92‡,	8-23-2001	56.6
Little Buckhorn Creek near Krassel Ranger Station 13310660	Buckhorn Creek	Lat 44°54'47", long 115°44'59", in $NE^1/_4NE^1/_4SW^1/_4$ sec.8, T.18 N., R.6 E., Valley County, Hydrologic Unit 17060208, 24.6 mi north of junction of Warm Lake Road and South Fork Salmon Road, and 17.0 mi east of McCall.	5.99	1990-94‡,	8-23-2001	1.21
West Fork Buckhorn Creek near Krassel Ranger Station 13310670	Buckhorn Creek	Lat 44°55'02", long 115°44'34", in $SW^1/_4NE^1/_4NE^1/_4$ sec.8, T.18 N., R.6 E., Valley County, Hydrologic Unit 17060208, 125 ft upstream from bridge crossing, 24.1 mi north of junction of Warm Lake Road and South Fork Salmon Road, and 17.5 mi east of McCall.	22.6	1990-94‡,	8-23-2001	2.66
East Fork of South Fork Salmon River near Stibnite 13311500	South Fork Salmon River	Lat 44°56'11", long 115°20'16", in $NW^1/_4SE^1/_4SE^1/_4$ sec.34, T.19 N., R.9 E., Valley County, Hydrologic Unit 17060208, on boundary between Boise and Payette National Forests, 75 ft downstream from Sugar Creek, 3 mi north of Stibnite, and 25.6 mi upstream from mouth.	42.5	1928-41‡, 1973, 1975-78	8-23-2001	16.0
Johnson Creek near Landmark Ranger Station 13312500	East Fork of South Fork Salmon River	Lat 44°40'56", long 115°32'23", in $SW^1/_4NW^1/_4$ sec.31, T.16 N., R.8 E., Valley County, Hydrologic Unit 17060208, Boise National Forest, at Buck Mountain Campground, 0.3 mi upstream from Lunch Creek, 1.0 mi downstream from Bobcat Creek, 1.5 mi north of Landmark Ranger Station, and 20 mi south of Yellow Pine.	54.7	1942-49‡, 1973-78, 1980	8-22-2001	7.08
Secesh River near Burgdorf 13313500	South Fork Salmon River	Lat 45°13'58", long 115°48'40", in $SW^1/_4$ sec.23, T.22 N., R.5 E., Idaho County, Hydrologic Unit 17060208, Payette National Forest, 760 ft upstream from Long Gulch Creek, and 5.3 mi southeast of Burgdorf.	104	1929, 1943-52‡, 1977,1980, 1987-89	8-28-2001	28.3
Warren Creek near Warren 13314500	Salmon River	Lat 45°16'34", long 115°41'49", in sec.3, T.22 N., R.6 E., Idaho County, Hydrologic Unit 17060207, 500 ft downstream from Warren Wagon Road bridge, 0.1 mi downstream from Steamboat Creek, and 1.3. mi northwest of Warren.	37.0	1943-49‡, 1992	8-28-2001	6.49
French Creek at French Creek near Riggins 13315050	Salmon River	Lat 45°25'23", long 116°01'38", in $SE^1/_4NE^1/_4$ sec.13, T.24 N., R.3 E., Idaho County, Hydrologic Unit 17060209, at crossing of Salmon River Road, at French Creek, and 14 mi east of Riggins.	--	1977,1992	8-28-2001	15.8

Discharge measurements made at low-flow partial-record sites during water year 2001.

Station	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Salmon River Basin--Continued				
Boulder Creek near Tamarack 13316000	Little Salmon River	Lat 45°04'58", long 116°26'51", in $NE^1/_4NE^1/_4SW^1/_4$ sec.10, T.20 N., R.1 W., Adams County, Hydrologic Unit 17060210, Payette National Forest, 125 ft upstream from Yantis Ditch, and 8 mi northwest of Tamarack.	a6.5	1937, 1938-45‡, 1973-78, 1994	8-30-2001	0.98
Rapid River above hatchery near Riggins 13316390	Salmon River	Lat 45°21'04", long 116°23'57", in $SE^1/_4NW^1/_4NE^1/_4$ sec.12, T.23 N., R.1 W., Idaho County, Hydrologic Unit 17060210, Nez Perce National Forest, 500 ft above diversion fro Rapid River Fish Hatchery, 0.5 mi downstream from Thorn Gulch, 0.5 mi upstream from Shingle Creek, 2.8 mi upstream from mouth, and 6.0 mi southwest of Riggins.	--	1977,1980, 1987-89	9-10-2001	60.1
Slate Creek at mouth at Slate Creek 13316600	Salmon River	Lat 45°38'24", long 116°17'01", in $NE^1/_4NW^1/_4NW^1/_4$ sec.36, T.27 N., R.1 E., Idaho County, Hydrologic Unit 17060209, 200 ft upstream from U.S. Highway 95 bridge, 300 ft upstream from mouth, 0.2 mi northwest of Slate Creek, and 8.7 mi south of White Bird.	127	1948, 1973-78, 1980,1992	9-14-2001	28.7
White Bird Creek near White Bird 13317045	Salmon River	Lat 45°47'19", long 116°15'29", in $NE^1/_4SE^1/_4SW^1/_4$ sec.6, T.28 N., R.2 E., Idaho County, Hydrologic Unit 17060209, at private road crossing, 0.2 mi upstream from Magpie Gulch, and 3.0 mi northeast of White Bird.	--	1973-78, 1980,1992	9-14-2001	5.24
		Clearwater River Basin				
Swiftwater Creek near Lowell 13336600	Selway River	Lat 46°06'55", long 115°34'23", in $SE^1/_4SE^1/_4NE^1/_4$ sec.16, T.32 N., R.7 E., Idaho County, Hydrologic Unit 17060302, Nez Perce National Forest, at mouth, at forest road, and 2.5 mi southeast of Lowell.	6.19	1961-71b, 1973-78, 1995	9-11-2001	2.48
East Fork Papoose Creek near Powell Ranger Station 13336650	Lochsa River	Lat 46°32'07", long 114°45'55", in $SE^1/_4SW^1/_4NE^1/_4$ sec.24, T.36 N., R.13 E., Idaho County, Hydrologic Unit 17060303, Clearwater National Forest, at forest road, and 3 mi northwest of Powell Ranger Station.	a4.51	1961-71b, 1973-78, 1980	8-29-2001	1.45
Warm Springs Creek near Powell Ranger Station 13336800	Lochsa River	Lat 46°28'17", long 114°53'00", (unsurveyed), Idaho County, Hydrologic Unit 17060303, at mouth, 9 mi west of Powell Ranger Station.	74.7	1911,1924, 1995	8-29-2001	19.4
Weir Creek near Powell Ranger Station 13336850	Lochsa River	Lat 46°27'31", long 115°02'04", near $W^1/_2$ corner, sec.13, T.36 N., R.11 E., (unsurveyed), Idaho County, Hydrologic Unit 17060303, Clearwater National Forest, 200 ft upstream from U.S. Highway 12, and 16 mi west of Powell Ranger Station.	a12.2	1961-71b, 1973-78, 1980	8-29-2001	4.23
Fish Creek near Lowell 13336900	Lochsa River	Lat 46°20'00", long 115°20'46", (unsurveyed), Idaho County, Hydrologic Unit 17060303, 1.3 mi southwest of Lochsa Ranger Statiobn, 18 mi northeast of Lowell, and at mile 0.2.	89.2	1924, 1958-67‡, 1973-76, 1978,1987, 1995	8-29-2001	24.9
Clear Creek near Kooskia 13337100	Middle Fork Clearwater River	Lat 46°07'56", long 115°56'50", in $SE^1/_4NW^1/_4NW^1/_4$ sec.10, T.32 N., R.4 E., Idaho County, Hydrologic Unit 17060304, at county road, 0.1 mi upstream from mouth, 1.5 mi east of Kooskia.	a102	1924, 1962‡, 1968‡, 1971-72‡, 1973-78 1987,1988	8-29-2001	16.7

Discharge measurements made at low-flow partial-record sites during water year 2001.

Station	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Clearwater River Basin--Continued				
Red Horse Creek near Elk City 13337200	Red River ???	Lat 45°47'39", long 115°24'02", in $SW^1/_4SW^1/_4NW^1/_4$ sec.6, T.28 N., R.9 E. (unsurveyed), Idaho County, Hydrologic Unit 17060305, Nez Perce National Forest, 75 ft upstream from Elk City-Dixie road, and 3.0 mi southeast of Elk City.	9.13	1961-71b, 1973, 1975-78, 1980	8-30-2001	0.79
Crooked River near mouth near Elk City 13337520	South Fork Clearwater River	Lat 45°49'18", long 115°31'40", in $SW^1/_4NW^1/_4$ sec.25, T.29 N., R.7 E., Idaho County, Hydrologic Unit 17060305, 600 ft west of Crooked River Road, 1,000 ft upstream from South Fork Clearwater River, and 5.5 mi west of Elk City.	--	1984-87c, 1986-89, 1992	8-30-2001	15.4
Peasley Creek near Golden 13337700	South Fork Clearwater River	Lat 45°49'00", long 115°49'09", in $SE^1/_4$ sec.27, T.29 N., R.5 E. (unsurveyed), Idaho County, Hydrologic Unit 17060305, Nez Perce National Forest, at State Highway 14, and 6.6 mi west of Golden.	--	1962-71b, 1973, 1975-78b, 1980,1992	8-30-2001	3.03
South Fork Clearwater River near Grangeville 13338000	Clearwater River	Lat 45°54'45", long 116°00'20", in $SW^1/_4NW^1/_4SE^1/_4$ sec.30, T.30 N., R.4 E., Idaho County, Hydrologic Unit 17060305, Nez Perce National Forest, at mouth of Schwartz Creek, 300 ft downstream from old gage site, 6 mi east of Grangeville, and at mile 21.7.	865	1910-16‡, 1923-63‡, 1973, 1975-76, 1978,1980	8-30-2001	139
Sally Ann Creek near Stites 13338200	South Fork Clearwater River	Lat 46°00'35", long 115°57'46", in $SE^1/_4$ sec.21, T.31 N., R.4 E., Idaho County, Hydrologic Unit 17060305, at State Highway 13, and 5.8 mi south of Stites.	13.9	1961-71b, 1973, 1975-78, 1980,1992, 1995	8-30-2001	0.43
Lawyer Creek near Nezperce 13338800	Clearwater River	Lat 46°09'46", long 116°14'27", in $NE^1/_4NW^1/_4$ sec.32, T.33 N., R.2 E., Idaho County, Hydrologic Unit 17060306, 350 ft upstream from State Highway 7 bridge crossing, 12 mi upstream from mouth, and 5 mi south of Nezperce.	150	1967-74‡, 1977, 1987-88, 1992,1995	8-28-2001	1.71
Canal Gulch Creek at Pierce Ranger Station 13339700	Orofino Creek	Lat 46°29'49", long 115°47'45", in $SE^1/_4SE^1/_4NW^1/_4$ sec.2, T.36 N., R.5 E., Clearwater County, Hydrologic Unit 17060306, at Pierce Ranger Station, and 0.5 mi north of Pierce.	5.9	1961-71b, 1973-78, 1980	8-29-2001	0.18
Deer Creek near Orofino 13339900	Whiskey Creek	Lat 46°29'30", long 116°10'39", in $SW^1/_4$ sec.3, T.36 N., R.2 E., Clearwater County, Hydrologic Unit 17060306, at dirt road, and 3.0 mi east of Orofino.	a6.8	1962-71b, 1973-78b, 1980	8-29-2001	0.00
Cold Springs Creek near Craigmont 13341100	Big Canyon Creek	Lat 46°14'09", long 116°31'09", in $NE^1/_4$ sec.1, T.33 N., R.2 W., Lewis County, Hydrologic Unit 17060306, at U.S. Highway 95 crossing, and 2.7 mi west of Craigmont.	8.07	1961-65, 1967-71, 1973-81,	8-28-2001	0.03
Potlatch River at Kendrick 13341500	Clearwater River	Lat 46°36'44", long 116°39'27", in $NW^1/_4$ sec.25, T.38 N., R.3 W., Latah County, Hydrologic Unit 17060306, at Mill St. bridge in Kendrick.	425	1946-60‡, 1961-71b, 1974-76, 1978,1980, 1985, 1987-88, 1995	8-28-2001	3.40
Mission Creek near Winchester 13342000	Lapwai Creek	Lat 46°11'20", long 116°38'53", in $NE^1/_4$ sec.24, T.33 N., R.3 W., Lewis County, Hydrologic Unit 17060306, 4 mi southwest of Winchester.	16.5	1941-45‡, 1948,1956, 1975-76, 1978,1995	8-28-2001	0.04

Discharge measurements made at low-flow partial-record sites during water year 2001.

Station	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Clearwater River Basin--Continued				
Deep Creek tributary near Potlatch 13344700	Deep Creek	Lat 47°01'27", long 116°53'01", in $SE^1/_4$ sec.31, T.43 N., R.4 W., Latah County, at U.S. Highway 95, and 7.0 mi north of Potlatch.	2.90	1961-71, 1975,1978	8-29-2001	0.00
		Palouse River Basin				
South Fork Palouse River near Moscow 13346450	Palouse River	Lat 46°42'41", long 116°58'46", in $NE^1/_4SE^1/_4NE^1/_4$ sec.20, T.39 N., R.5 W., Latah County, Hydrologic Unit 170601080.6 mi south of Mountain View Ave.-State Highway 8 junction, and 1.0 mi southeast of Moscow.	25.1	1972d, 1974, 1975-76, 1978	8-29-2001	0.02

‡ Continuous record
a Approximately
b Crest-stage gage
c Temperature record
d Discharge determined by indirect measurement.

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Water quality partial-record stations and miscellaneous sites are locations where chemical-quality, biological, or sediment data are collected once only, intermittently, or systematically but at limited frequency over a period of years for use in hydrologic analyses.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SPOKANE RIVER BASIN													
473328115545601 BEAVER CR. AB FERGUSON CR NR DELTA, ID (LAT 47 33 28N LONG 115 54 56W)													
OCT													
24...	0850	.66	124	7.1	1.0	8.7	50.5	15.2	3.01	--	18	22	0
DEC													
13...	1330	.11	126	6.8	-4.0	3.9	50.0	14.9	3.07	2.6	21	25	0
MAR													
12...	1345	4.0	109	7.1	5.0	4.0	38.7	11.6	2.36	--	15	18	0
APR													
26...	1310	38	66	7.0	17.5	7.0	23.0	6.82	1.44	--	14	17	0
MAY													
01...	0735	33	54	6.9	.5	4.5	18.9	5.54	1.20	1.6	12	15	0
SEP													
20...	0830	.11	129	6.6	3.5	10.8	45.9	13.7	2.86	--	--	--	--
473349115532201 CARBON CR AB MOUTH NR DELTA, ID (LAT 47 33 49N LONG 115 53 22W)													
JUL													
10...	1950	.82	182	7.2	19.0	14.0	64.9	21.1	2.97	--	22	26	0
11...	1627	.50	183	7.2	28.0	15.0	63.7	20.7	2.90	--	22	26	0
12...	1605	.78	183	7.2	20.5	14.5	65.8	21.4	2.99	--	22	27	0
13...	1615	.42	184	7.1	28.0	15.0	66.4	21.6	3.02	--	22	26	0
473545115451201 Paragon Gulch Creek abv. Mouth nr Murray, ID (LAT 47 35 45N LONG 115 45 12W)													
JUL													
12...	1355	.18	39	6.6	21.5	10.0	12.5	3.45	.952	--	13	15	0
13...	1440	.22	40	6.7	27.0	10.0	12.8	3.53	.979	--	13	16	0
473553115473901 PRICHARD CR ABV CONFLUENCE OF GRANITE CR NR RAVEN (LAT 47 35 53N LONG 115 47 39W)													
SEP													
19...	1500	3.0	40	7.3	18.0	11.2	12.3	3.48	.877	--	--	--	--
473732115513001 PRICHARD CR AT MURRAY, ID (LAT 47 37 32N LONG 115 51 30W)													
OCT													
24...	1125	.63	35	6.9	2.0	7.0	11.6	3.14	.909	--	9	11	0
DEC													
13...	1035	.07	37	6.4	-7.0	1.2	12.3	3.36	.945	1.8	12	14	0
MAR													
13...	0745	1.4	39	6.7	1.5	1.0	11.5	3.16	.884	--	8	10	0
APR													
26...	0945	221	26	7.5	9.0	4.0	7.92	2.19	.595	--	8	10	0
30...	1605	230	23	6.9	4.5	4.5	6.95	1.93	.509	1.3	8	9	0
SEP													
19...	1445	.25	41	7.0	17.0	13.2	12.4	3.41	.931	--	--	--	--
473930115530101 EF EAGLE CR ABV FANCY GULCH NR EAGLE, ID (LAT 47 39 30N LONG 115 53 01W)													
OCT													
23...	1350	4.9	36	6.9	7.5	7.5	13.0	3.28	1.17	--	9	11	0
DEC													
12...	1050	1.5	31	6.9	-12.0	0	12.6	3.21	1.11	1.7	10	13	0
MAR													
13...	1020	10	39	6.9	2.5	1.5	12.4	3.17	1.10	--	9	11	0
APR													
25...	1315	119	27	7.1	21.5	7.0	8.41	2.15	.740	--	9	11	0
30...	1400	188	21	6.9	6.0	5.0	6.61	1.69	.579	1.1	7	9	0
SEP													
18...	1300	3.0	41	7.4	21.0	13.6	14.0	3.59	1.21	--	--	--	--
474017115530601 WF EAGLE CR ABV NOCELLY GULCH NR EAGLE, ID (LAT 47 40 17N LONG 115 53 06W)													
OCT													
23...	1030	4.6	30	6.7	-2.0	5.5	12.5	3.27	1.04	--	13	16	0
DEC													
12...	1340	3.3	28	6.7	-6.0	0	10.8	2.87	.884	1.1	12	14	0

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ANTIMONY, TOTAL (UG/L AS SB) (01097)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)
SPOKANE RIVER BASIN													
473328115545601 BEAVER CR. AB FERGUSON CR NR DELTA, ID (LAT 47 33 28N LONG 115 54 56W)													
OCT													
24...	--	--	--	--	--	--	--	E.1	<2	--	--	--	--
DEC													
13...	.4	38.3	--	<1	3	.06	<.9	E.1	<3	26.2	25.6	<.06	<.06
MAR													
12...	--	--	--	--	--	--	--	E.1	<2	--	--	--	--
APR													
26...	--	--	--	--	--	--	--	<.2	<2	--	--	--	--
MAY													
01...	.6	11.0	--	3	18	.10	<.9	E.1	<2	7.8	8.7	<.06	<.06
SEP													
20...	--	--	--	--	--	--	--	E.2	<2	--	--	--	--
473349115532201 CARBON CR AB MOUTH NR DELTA, ID (LAT 47 33 49N LONG 115 53 22W)													
JUL													
10...	--	--	.038	--	--	--	--	E.2	<2	--	--	--	--
11...	--	--	.037	--	--	--	--	E.2	<2	--	--	--	--
12...	--	--	.035	--	--	--	--	.2	<2	--	--	--	--
13...	--	--	.037	--	--	--	--	.2	<2	--	--	--	--
473545115451201 Paragon Gulch Creek abv. Mouth nr Murray, ID (LAT 47 35 45N LONG 115 45 12W)													
JUL													
12...	--	--	.015	--	--	--	--	E.1	<2	--	--	--	--
13...	--	--	.015	--	--	--	--	E.1	<2	--	--	--	--
473553115473901 PRICHARD CR ABV CONFLUENCE OF GRANITE CR NR RAVEN (LAT 47 35 53N LONG 115 47 39W)													
SEP													
19...	--	--	--	--	--	--	--	.2	<2	--	--	--	--
473732115513001 PRICHARD CR AT MURRAY, ID (LAT 47 37 32N LONG 115 51 30W)													
OCT													
24...	--	--	--	--	--	--	--	1.0	<2	--	--	--	--
DEC													
13...	E.2	7.6	--	<1	2	.12	<.9	.8	<3	13.6	13.9	<.06	<.06
MAR													
13...	--	--	--	--	--	--	--	.8	E1	--	--	--	--
APR													
26...	--	--	--	--	--	--	--	.5	<2	--	--	--	--
30...	.2	3.5	--	6	27	.05	<.9	.4	<2	9.3	10.2	<.06	<.06
SEP													
19...	--	--	--	--	--	--	--	1.4	E1	--	--	--	--
473930115530101 NF EAGLE CR ABV FANCY GULCH NR EAGLE, ID (LAT 47 39 30N LONG 115 53 01W)													
OCT													
23...	--	--	--	--	--	--	--	E.1	<2	--	--	--	--
DEC													
12...	E.2	8.1	--	1	2	.10	<.9	<.2	<3	10.3	10.1	<.06	<.06
MAR													
13...	--	--	--	--	--	--	--	E.1	<2	--	--	--	--
APR													
25...	--	--	--	--	--	--	--	E.1	<2	--	--	--	--
30...	.1	3.1	--	4	43	.09	<.9	E.1	<2	6.2	7.1	<.06	<.06
SEP													
18...	--	--	--	--	--	--	--	.2	<2	--	--	--	--
474017115530601 WF EAGLE CR ABV NOCELLY GULCH NR EAGLE, ID (LAT 47 40 17N LONG 115 53 06W)													
OCT													
23...	--	--	--	--	--	--	--	E.1	<2	--	--	--	--
DEC													
12...	E.3	3.1	--	2	3	.05	<.9	<.2	<3	24.1	24.2	<.06	<.06

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS AND MISCELLANOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BORON, DIS-SOLVED (UG/L AS B) (01020)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
SPOKANE RIVER BASIN													
473328115545601 BEAVER CR. AB FERGUSON CR NR DELTA, ID (LAT 47 33 28N LONG 115 54 56W)													
OCT													
24...	--	--	3.51	3.43	--	--	--	--	.4	E.6	--	--	1.06
DEC													
13...	<7	<7	3.34	3.20	<.8	<1	.03	<1	.6	E.6	<10	<10	.99
MAR													
12...	--	--	3.13	3.15	--	--	--	--	.4	E.5	--	--	.74
APR													
26...	--	--	2.25	2.28	--	--	--	--	.6	.9	--	--	.85
MAY													
01...	<7	<7	1.90	1.85	<.8	<1	.02	<1	.6	E.6	<10	20	1.04
SEP													
20...	--	--	3.25	3.23	--	--	--	--	.5	.7	--	--	1.83
473349115532201 CARBON CR AB MOUTH NR DELTA, ID (LAT 47 33 49N LONG 115 53 22W)													
JUL													
10...	--	--	13.8	13.6	--	--	--	--	.7	E.6	--	--	6.05
11...	--	--	13.5	13.5	--	--	--	--	.7	E.6	--	--	6.44
12...	--	--	13.6	13.6	--	--	--	--	.7	E.6	--	--	6.42
13...	--	--	13.8	13.6	--	--	--	--	.7	E.6	--	--	6.72
473545115451201 Paragon Gulch Creek abv. Mouth nr Murray, ID (LAT 47 35 45N LONG 115 45 12W)													
JUL													
12...	--	--	.61	.59	--	--	--	--	.4	E.3	--	--	2.69
13...	--	--	.54	.55	--	--	--	--	.3	<.6	--	--	1.69
473553115473901 PRICHARD CR ABV CONFLUENCE OF GRANITE CR NR RAVEN (LAT 47 35 53N LONG 115 47 39W)													
SEP													
19...	--	--	1.43	1.40	--	--	--	--	.6	.6	--	--	6.88
473732115513001 PRICHARD CR AT MURRAY, ID (LAT 47 37 32N LONG 115 51 30W)													
OCT													
24...	--	--	.35	.32	--	--	--	--	.4	E.4	--	--	.15
DEC													
13...	<7	<7	.35	.33	<.8	<1	.03	<1	.4	E.3	<10	<10	.20
MAR													
13...	--	--	.36	.35	--	--	--	--	.4	E.4	--	--	.20
APR													
26...	--	--	.30	.28	--	--	--	--	.5	.6	--	--	1.35
30...	<7	<7	.27	.27	<.8	<1	.02	<1	.7	.7	<10	40	1.62
SEP													
19...	--	--	.41	.42	--	--	--	--	.4	E.5	--	--	.35
473930115530101 EF EAGLE CR ABV FANCY GULCH NR EAGLE, ID (LAT 47 39 30N LONG 115 53 01W)													
OCT													
23...	--	--	.41	.38	--	--	--	--	.7	.7	--	--	.52
DEC													
12...	<7	<7	.38	.38	<.8	<1	E.01	<1	.6	E.6	<10	<10	1.21
MAR													
13...	--	--	.31	.30	--	--	--	--	.7	1.0	--	--	.51
APR													
25...	--	--	.30	.29	--	--	--	--	.9	1.6	--	--	1.06
30...	<7	<7	.33	.29	<.8	<1	.02	<1	.8	1.1	<10	70	1.30
SEP													
18...	--	--	.36	.36	--	--	--	--	.8	.7	--	--	.68
474017115530601 WF EAGLE CR ABV NOCELLY GULCH NR EAGLE, ID (LAT 47 40 17N LONG 115 53 06W)													
OCT													
23...	--	--	<.04	<.04	--	--	--	--	.3	E.4	--	--	<.08
DEC													
12...	<7	<7	E.03	<.04	<.8	<1	E.01	<1	.3	<.6	<10	<10	E.07

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS AND MISCELLANOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
SPOKANE RIVER BASIN													
473328115545601 BEAVER CR. AB FERGUSON CR NR DELTA, ID (LAT 47 33 28N LONG 115 54 56W)													
OCT													
24...	2	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
13...	1	1.1	.6	.2	<1	<.23	<.14	<.2	<.2	2.42	2	E.2	<.4
MAR													
12...	1	--	--	--	--	--	--	--	--	--	--	--	--
APR													
26...	9	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
01...	2	E.2	.3	.2	<1	<.01	<.01	<.2	<.2	.74	<1	E.2	<.4
SEP													
20...	2	--	--	--	--	--	--	--	--	--	--	--	--
473349115532201 CARBON CR AB MOUTH NR DELTA, ID (LAT 47 33 49N LONG 115 53 22W)													
JUL													
10...	6	--	--	--	--	--	--	--	--	--	--	--	--
11...	7	--	--	--	--	--	--	--	--	--	--	--	--
12...	7	--	--	--	--	--	--	--	--	--	--	--	--
13...	7	--	--	--	--	--	--	--	--	--	--	--	--
473545115451201 Paragon Gulch Creek abv. Mouth nr Murray, ID (LAT 47 35 45N LONG 115 45 12W)													
JUL													
12...	4	--	--	--	--	--	--	--	--	--	--	--	--
13...	2	--	--	--	--	--	--	--	--	--	--	--	--
473553115473901 PRICHARD CR ABV CONFLUENCE OF GRANITE CR NR RAVEN (LAT 47 35 53N LONG 115 47 39W)													
SEP													
19...	7	--	--	--	--	--	--	--	--	--	--	--	--
473732115513001 PRICHARD CR AT MURRAY, ID (LAT 47 37 32N LONG 115 51 30W)													
OCT													
24...	<1	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
13...	<1	.6	E.2	.2	<1	<.23	<.14	E.1	E.1	.55	<1	<.3	<.4
MAR													
13...	<1	--	--	--	--	--	--	--	--	--	--	--	--
APR													
26...	5	--	--	--	--	--	--	--	--	--	--	--	--
30...	3	<.3	<.3	.4	2	<.01	<.01	E.1	E.1	.28	<1	<.3	<.4
SEP													
19...	<1	--	--	--	--	--	--	--	--	--	--	--	--
473930115530101 EF EAGLE CR ABV FANCY GULCH NR EAGLE, ID (LAT 47 39 30N LONG 115 53 01W)													
OCT													
23...	<1	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
12...	<1	.4	<.3	.3	<1	<.23	<.14	<.2	<.2	.52	<1	<.3	<.4
MAR													
13...	<1	--	--	--	--	--	--	--	--	--	--	--	--
APR													
25...	9	--	--	--	--	--	--	--	--	--	--	--	--
30...	6	<.3	<.3	.4	4	<.01	<.01	<.2	<.2	.14	<1	E.2	<.4
SEP													
18...	<1	--	--	--	--	--	--	--	--	--	--	--	--
474017115530601 WF EAGLE CR ABV NOCELLY GULCH NR EAGLE, ID (LAT 47 40 17N LONG 115 53 06W)													
OCT													
23...	<1	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
12...	<1	.3	<.3	.3	<1	<.23	<.14	<.2	<.2	.12	<1	<.3	<.4

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS AND MISCELLANOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	THAL-LIUM, TOTAL (UG/L AS TL) (01059)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	URANIUM NATURAL TOTAL (UG/L AS U) (28011)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
SPOKANE RIVER BASIN													
473328115545601 BEAVER CR. AB FERGUSON CR NR DELTA, ID (LAT 47 33 28N LONG 115 54 56W)													
OCT													
24...	--	--	--	--	--	--	--	723	662	--	--	1	.00
DEC													
13...	<1.0	<.05	193	182	.12	<.9	<.2	687	661	E.004	E.01	<1	--
MAR													
12...	--	--	--	--	--	--	--	689	717	--	--	2	.02
APR													
26...	--	--	--	--	--	--	--	477	490	--	--	4	.41
MAY													
01...	<1.0	<.05	69.6	76.2	<.04	<.9	<.2	393	409	.010	<.02	2	.18
SEP													
20...	--	--	--	--	--	--	--	646	630	--	--	<1	--
473349115532201 CARBON CR AB MOUTH NR DELTA, ID (LAT 47 33 49N LONG 115 53 22W)													
JUL													
10...	--	--	--	--	--	--	--	3000	3220	--	--	<1	--
11...	--	--	--	--	--	--	--	2950	3190	--	--	<1	--
12...	--	--	--	--	--	--	--	3040	3190	--	--	<1	--
13...	--	--	--	--	--	--	--	3010	3180	--	--	<1	--
473545115451201 Paragon Gulch Creek abv. Mouth nr Murray, ID (LAT 47 35 45N LONG 115 45 12W)													
JUL													
12...	--	--	--	--	--	--	--	139	139	--	--	1	.00
13...	--	--	--	--	--	--	--	133	131	--	--	2	.00
473553115473901 PRICHARD CR ABV CONFLUENCE OF GRANITE CR NR RAVEN (LAT 47 35 53N LONG 115 47 39W)													
SEP													
19...	--	--	--	--	--	--	--	302	288	--	--	--	--
473732115513001 PRICHARD CR AT MURRAY, ID (LAT 47 37 32N LONG 115 51 30W)													
OCT													
24...	--	--	--	--	--	--	--	69	64	--	--	3	.01
DEC													
13...	<1.0	<.05	42.1	39.8	<.04	<.9	E.2	87	76	E.004	<.02	1	.00
MAR													
13...	--	--	--	--	--	--	--	88	90	--	--	1	.00
APR													
26...	--	--	--	--	--	--	--	61	64	--	--	5	3.0
30...	<1.0	<.05	22.8	24.8	<.04	<.9	<.2	56	59	.024	E.01	2	1.2
SEP													
19...	--	--	--	--	--	--	--	73	72	--	--	1	.00
473930115530101 EF EAGLE CR ABV FANCY GULCH NR EAGLE, ID (LAT 47 39 30N LONG 115 53 01W)													
OCT													
23...	--	--	--	--	--	--	--	69	66	--	--	2	.03
DEC													
12...	<1.0	<.05	23.5	23.7	<.04	<.9	<.2	70	67	<.007	<.02	<1	--
MAR													
13...	--	--	--	--	--	--	--	63	65	--	--	<1	--
APR													
25...	--	--	--	--	--	--	--	44	51	--	--	8	2.6
30...	<1.0	<.05	12.5	13.7	<.04	<.9	<.2	45	50	.019	<.02	4	2.0
SEP													
18...	--	--	--	--	--	--	--	55	53	--	--	1	.01
474017115530601 WF EAGLE CR ABV NOCELLY GULCH NR EAGLE, ID (LAT 47 40 17N LONG 115 53 06W)													
OCT													
23...	--	--	--	--	--	--	--	<1	1	--	--	5	.06
DEC													
12...	<1.0	<.05	19.3	17.6	<.04	<.9	<.2	<1	<1	E.006	<.02	<1	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SPOKANE RIVER BASIN													
474017115530601 WF EAGLE CR ABV NOCELLY GULCH NR EAGLE, ID (LAT 47 40 17N LONG 115 53 06W)													
MAR													
13...	1240	11	31	7.2	5.5	2.0	11.1	2.97	.901	--	12	15	0
APR													
25...	1000	104	24	7.3	7.5	4.0	8.39	2.22	.693	--	10	12	0
30...	1130	133	20	7.0	6.0	4.5	7.22	1.90	.595	.9	9	11	0
SEP													
18...	1600	2.9	34	7.1	22.0	11.7	13.5	3.61	1.08	--	--	--	--
474111115465201 UPPER EF EAGLE CR BLW TRIB CR NR JACK WAITE FORK (LAT 47 41 11N LONG 115 46 52W)													
SEP													
19...	1200	1.9	59	7.6	13.0	10.5	21.9	5.27	2.13	--	--	--	--
474118115463101 Prichard Creek blw Paragon Creek nr Murray, ID (LAT 47 41 18N LONG 115 46 31W)													
JUL													
10...	1735	6.8	21	7.1	30.0	11.5	6.17	1.80	.407	--	9	11	0
11...	1425	--	21	7.2	31.0	11.2	6.16	1.80	.406	--	9	11	0
474118115463201 TRIBUTARY CR AB MOUTH AT JACK WAITE FORKS, ID (LAT 47 41 18N LONG 115 46 32W)													
JUL													
10...	1430	3.1	61	7.2	31.0	16.0	22.7	5.27	2.31	--	16	20	0
11...	1155	3.0	62	7.3	26.0	13.5	23.5	5.41	2.43	--	17	20	0
12...	1105	2.8	62	7.2	26.5	13.5	23.5	5.43	2.41	--	16	19	0
13...	1140	2.6	63	7.2	27.0	14.8	23.9	5.53	2.46	--	16	20	0
474212115513501 West Fork Eagle Creek abv Bobtail Cr nr Eagle, ID (LAT 47 42 12N LONG 115 51 35W)													
JUL													
10...	1020	9.7	31	7.1	26.0	11.5	12.2	3.21	1.01	--	14	16	0
11...	0915	8.6	32	7.3	24.5	10.5	12.3	3.23	1.02	--	15	18	0
12...	0810	8.9	32	7.3	17.0	10.5	12.0	3.18	.988	--	14	17	0
13...	0825	8.4	32	6.4	16.5	10.0	12.6	3.32	1.05	--	13	16	0

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ANTI-MONY, TOTAL (UG/L AS SB) (01097)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)
474017115530601 WF EAGLE CR ABV NOCELLY GULCH NR EAGLE, ID (LAT 47 40 17N LONG 115 53 06W)													
MAR													
13...	--	--	--	--	--	--	--	E.1	<2	--	--	--	--
APR													
25...	--	--	--	--	--	--	--	E.1	<2	--	--	--	--
30...	.2	1.6	--	7	25	E.04	<.9	E.2	<2	18.1	20.3	<.06	<.06
SEP													
18...	--	--	--	--	--	--	--	E.2	<2	--	--	--	--
474111115465201 UPPER EF EAGLE CR BLW TRIB CR NR JACK WAITE FORK (LAT 47 41 11N LONG 115 46 52W)													
SEP													
19...	--	--	--	--	--	--	--	E.2	<2	--	--	--	--
474118115463101 Prichard Creek blw Paragon Creek nr Murray, ID (LAT 47 41 18N LONG 115 46 31W)													
JUL													
10...	--	--	.014	--	--	--	--	<.2	<2	--	--	--	--
11...	--	--	.013	--	--	--	--	<.2	<2	--	--	--	--
474118115463201 TRIBUTARY CR AB MOUTH AT JACK WAITE FORKS, ID (LAT 47 41 18N LONG 115 46 32W)													
JUL													
10...	--	--	.013	--	--	--	--	E.1	<2	--	--	--	--
11...	--	--	.012	--	--	--	--	E.1	<2	--	--	--	--
12...	--	--	.012	--	--	--	--	E.1	<2	--	--	--	--
13...	--	--	.012	--	--	--	--	E.1	<2	--	--	--	--
474212115513501 West Fork Eagle Creek abv Bobtail Cr nr Eagle, ID (LAT 47 42 12N LONG 115 51 35W)													
JUL													
10...	--	--	.012	--	--	--	--	E.1	<2	--	--	--	--
11...	--	--	.012	--	--	--	--	E.1	<2	--	--	--	--
12...	--	--	.012	--	--	--	--	E.1	<2	--	--	--	--
13...	--	--	.013	--	--	--	--	<.2	<2	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BORON, DIS-SOLVED (UG/L AS B) (01020)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
SPOKANE RIVER BASIN													
474017115530601 WF EAGLE CR ABV NOCELLY GULCH NR EAGLE, ID (LAT 47 40 17N LONG 115 53 06W)													
MAR													
13...	--	--	<.04	<.04	--	--	--	--	.3	E.5	--	--	E.07
APR													
25...	--	--	<.04	<.04	--	--	--	--	.5	E.6	--	--	E.06
30...	<7	<7	<.04	<.04	<.8	M	E.01	<1	.4	E.4	<10	20	<.08
SEP													
18...	--	--	<.04	<.04	--	--	--	--	E.2	E.4	--	--	E.06
474111115465201 UPPER EF EAGLE CR BLW TRIB CR NR JACK WAITE FORK (LAT 47 41 11N LONG 115 46 52W)													
SEP													
19...	--	--	1.02	1.03	--	--	--	--	.7	.7	--	--	2.62
474118115463101 Prichard Creek blw Paragon Creek nr Murray, ID (LAT 47 41 18N LONG 115 46 31W)													
JUL													
10...	--	--	.09	.06	--	--	--	--	.3	E.3	--	--	.73
11...	--	--	.08	.06	--	--	--	--	.3	E.3	--	--	.63
474118115463201 TRIBUTARY CR AB MOUTH AT JACK WAITE FORKS, ID (LAT 47 41 18N LONG 115 46 32W)													
JUL													
10...	--	--	1.81	1.79	--	--	--	--	1.1	1.2	--	--	9.70
11...	--	--	1.85	1.78	--	--	--	--	1.0	1.0	--	--	10.1
12...	--	--	1.82	1.76	--	--	--	--	.9	1.0	--	--	10.0
13...	--	--	1.86	1.81	--	--	--	--	1.0	1.1	--	--	10.6
474212115513501 West Fork Eagle Creek abv Bobtail Cr nr Eagle, ID (LAT 47 42 12N LONG 115 51 35W)													
JUL													
10...	--	--	<.04	<.04	--	--	--	--	.3	E.4	--	--	<.08
11...	--	--	<.04	<.04	--	--	--	--	.3	<.6	--	--	<.08
12...	--	--	.10	<.04	--	--	--	--	.2	<.6	--	--	.15
13...	--	--	<.04	<.04	--	--	--	--	--	<.6	--	--	.10

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
474017115530601 WF EAGLE CR ABV NOCELLY GULCH NR EAGLE, ID (LAT 47 40 17N LONG 115 53 06W)													
MAR													
13...	<1	--	--	--	--	--	--	--	--	--	--	--	--
APR													
25...	<1	--	--	--	--	--	--	--	--	--	--	--	--
30...	<1	<.3	<.3	.2	2	<.01	<.01	<.2	<.2	<.06	<1	E.2	E.2
SEP													
18...	<1	--	--	--	--	--	--	--	--	--	--	--	--
474111115465201 UPPER EF EAGLE CR BLW TRIB CR NR JACK WAITE FORK (LAT 47 41 11N LONG 115 46 52W)													
SEP													
19...	3	--	--	--	--	--	--	--	--	--	--	--	--
474118115463101 Prichard Creek blw Paragon Creek nr Murray, ID (LAT 47 41 18N LONG 115 46 31W)													
JUL													
10...	<1	--	--	--	--	--	--	--	--	--	--	--	--
11...	<1	--	--	--	--	--	--	--	--	--	--	--	--
474118115463201 TRIBUTARY CR AB MOUTH AT JACK WAITE FORKS, ID (LAT 47 41 18N LONG 115 46 32W)													
JUL													
10...	11	--	--	--	--	--	--	--	--	--	--	--	--
11...	11	--	--	--	--	--	--	--	--	--	--	--	--
12...	11	--	--	--	--	--	--	--	--	--	--	--	--
13...	11	--	--	--	--	--	--	--	--	--	--	--	--
474212115513501 West Fork Eagle Creek abv Bobtail Cr nr Eagle, ID (LAT 47 42 12N LONG 115 51 35W)													
JUL													
10...	<1	--	--	--	--	--	--	--	--	--	--	--	--
11...	<1	--	--	--	--	--	--	--	--	--	--	--	--
12...	<1	--	--	--	--	--	--	--	--	--	--	--	--
13...	<1	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	THAL-LIUM, TOTAL (UG/L AS TL) (01059)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	URANIUM NATURAL TOTAL (UG/L AS U) (28011)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
SPOKANE RIVER BASIN													
474017115530601 WF EAGLE CR ABV NOCELLY GULCH NR EAGLE, ID (LAT 47 40 17N LONG 115 53 06W)													
MAR													
13...	--	--	--	--	--	--	--	<1	<1	--	--	1	.03
APR													
25...	--	--	--	--	--	--	--	<1	<1	--	--	3	.84
30...	<1.0	<.05	10.8	11.9	<.04	<.9	<.2	3	8	.030	E.01	2	.72
SEP													
18...	--	--	--	--	--	--	--	<1	<1	--	--	1	.01
474111115465201 UPPER EF EAGLE CR BLW TRIB CR NR JACK WAITE FORK (LAT 47 41 11N LONG 115 46 52W)													
SEP													
19...	--	--	--	--	--	--	--	170	162	--	--	--	--
474118115463101 Prichard Creek blw Paragon Creek nr Murray, ID (LAT 47 41 18N LONG 115 46 31W)													
JUL													
10...	--	--	--	--	--	--	--	19	19	--	--	<1	--
11...	--	--	--	--	--	--	--	21	18	--	--	<1	--
474118115463201 TRIBUTARY CR AB MOUTH AT JACK WAITE FORKS, ID (LAT 47 41 18N LONG 115 46 32W)													
JUL													
10...	--	--	--	--	--	--	--	298	331	--	--	2	.02
11...	--	--	--	--	--	--	--	305	295	--	--	1	.01
12...	--	--	--	--	--	--	--	303	291	--	--	3	.02
13...	--	--	--	--	--	--	--	314	336	--	--	2	.01
474212115513501 West Fork Eagle Creek abv Bobtail Cr nr Eagle, ID (LAT 47 42 12N LONG 115 51 35W)													
JUL													
10...	--	--	--	--	--	--	--	4	5	--	--	<1	--
11...	--	--	--	--	--	--	--	<1	<1	--	--	<1	--
12...	--	--	--	--	--	--	--	2	<1	--	--	1	.02
13...	--	--	--	--	--	--	--	<1	1	--	--	<1	--

E Estimated value

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER QUALITY-DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, COLI-LERT QUANTRY WATER (MPN/ 100 ML) (50468)	TOTAL COLI-FORM, COLILRT QNT,WTR (MPN/ 100 ML) (50569)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
TRIBUTARIES BETWEEN BOISE RIVER GAGING STATIONS AT GLENWOOD BRIDGE AND NEAR PARMA													
13206400 EAGLE DRAIN AT EAGLE ID04N01E09C (LAT 43 41 38N LONG 116 21 11W)													
AUG													
27...	0920	38	232	7.4	26.0	17.0	7.7	87.6	580	300	4800	<.040	.20
13208750 THURMAN DRAIN AT MOUTH NEAR EAGLE ID 04N01W24ABD (LAT 43 40 28N LONG 116 23 55W)													
AUG													
29...	1550	7.8	403	7.5	31.0	19.6	7.3	87.6	230	210	3800	E.021	.34
13210660 TENMILE CREEK AT FRANKLIN ROAD NR NAMPA ID (LAT 43 38 52N LONG 116 33 08W)													
OCT													
18...	1200	16	530	7.5	13.0	12.4	11.3	115	--	93	8700	<.041	.33
NOV													
14...	1415	12	523	8.1	3.0	7.2	12.7	116	--	16	1300	<.041	.20
DEC													
13...	1350	7.4	537	8.0	2.0	6.0	13.2	117	--	36	2400	<.041	.24
JAN													
17...	1220	6.4	521	8.3	-3.5	2.1	16.1	126	--	--	--	<.041	.23
FEB													
14...	1440	5.3	524	8.0	3.0	5.6	15.9	140	--	2	1600	<.041	.28
MAR													
13...	1315	5.4	518	8.4	13.0	9.8	14.8	142	--	--	--	E.037	.35
APR													
18...	1537	50	148	8.2	22.0	13.7	10.3	109	--	S19	S7300	<.041	.33
MAY													
01...	1550	69	157	8.2	12.5	12.2	12.2	124	--	S96	S11000	E.033	.53
17...	1220	55	235	7.9	19.5	12.8	10.3	107	--	S650	S17000	E.023	.72
30...	1240	41	267	7.7	21.0	14.0	10.2	107	--	S520	S20000	.049	.67
JUN													
13...	1305	42	273	7.8	18.5	15.0	10.1	109	--	S620	S48000	E.023	.43
25...	1550	32	330	8.1	24.0	18.8	12.3	145	--	S200	S46000	E.022	.58
JUL													
17...	1400	36	330	8.0	23.5	16.8	9.9	112	--	S340	S120000	E.024	.69
AUG													
29...	0910	37	365	7.5	19.5	16.3	7.1	79.7	570	190	69000	<.040	.45
SEP													
18...	1450	14	525	8.4	26.5	17.1	11.3	129	--	53	6100	<.040	.41
13210795 FIVEMILE CREEK AT FRANKLIN ROAD NR NAMPA ID (LAT 43 38 52N LONG 116 33 08W)													
OCT													
18...	1345	35	658	7.7	17.0	14.0	7.9	83.7	--	12000	S12000	.501	1.8
NOV													
14...	1215	25	653	7.8	1.0	7.8	10.9	101	--	2500	>9600	.059	.78
DEC													
13...	1540	19	680	8.1	2.5	6.8	12.3	111	--	46	S12000	E.029	.55
JAN													
17...	1500	18	690	8.5	0	3.5	13.5	110	--	--	--	.155	1.1
FEB													
14...	1220	15	683	7.8	-4.5	4.5	12.9	109	--	66	S2800	.299	1.4
MAR													
13...	1540	16	721	8.7	16.5	13.7	14.7	156	--	--	--	3.07	4.3
APR													
18...	1315	66	286	8.1	21.5	13.1	11.8	123	--	S1100	S10000	E.024	.69
MAY													
01...	1250	74	249	8.2	12.5	11.2	11.0	109	--	S310	S7900	.079	.74
17...	1400	67	236	8.1	19.5	15.3	11.3	123	--	S93	>9600	E.022	.77
30...	1400	57	272	8.3	22.0	15.7	11.7	127	--	S350	>24000	.064	.62
JUN													
13...	1500	55	272	7.9	21.0	13.6	8.8	92.3	--	--	--	.091	.66
25...	1315	45	273	8.0	18.5	17.1	12.3	139	--	S290	S41000	.099	.70
JUL													
17...	1510	46	307	8.1	23.5	18.0	9.9	115	--	S460	S82000	.491	1.9
AUG													
29...	1115	49	228	7.4	27.0	18.4	6.6	77.6	460	180	48000	<.040	.66
SEP													
18...	1215	33	627	7.8	23.0	17.7	7.9	90.9	--	65	20000	E.024	.67

WATER QUALITY-DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
TRIBUTARIES BETWEEN BOISE RIVER GAGING STATIONS AT GLENWOOD BRIDGE AND NEAR PARMA					
13206400 EAGLE DRAIN AT EAGLE ID 04N01E09C (LAT 43 41 38N LONG 116 21 11W)					
AUG					
27...	E1.07	E.098	.099	9	.91
13208750 THURMAN DRAIN AT MOUTH NEAR EAGLE ID 04N01W24ABD (LAT 43 40 28N LONG 116 23 55W)					
AUG					
29...	E1.75	E.074	.092	7	.15
13210660 TENMILE CREEK AT FRANKLIN ROAD NR NAMPA ID (LAT 43 38 52N LONG 116 33 08W)					
OCT					
18...	3.73	.204	.227	7	.30
NOV					
14...	3.87	.171	.183	4	.12
DEC					
13...	4.16	.204	.227	6	.12
JAN					
17...	4.09	.161	.190	4	.07
FEB					
14...	3.91	.165	.189	11	.16
MAR					
13...	3.77	.200	.231	4	.06
APR					
18...	.302	.035	.151	97	13
MAY					
01...	.578	.050	.167	137	25
17...	1.50	.163	.305	179	27
30...	1.79	.169	.296	92	10
JUN					
13...	1.83	.171	.238	71	8.1
25...	2.16	.194	.281	93	8.0
JUL					
17...	2.24	.214	.302	87	8.6
AUG					
29...	E2.76	E.252	.282	25	2.5
SEP					
18...	3.37	.250	.269	5	.18
13210795 FIVEMILE CREEK AT FRANKLIN ROAD NR NAMPA ID (LAT 43 38 52N LONG 116 33 08W)					
OCT					
18...	4.67	.685	.798	11	1.1
NOV					
14...	4.75	.448	.497	9	.62
DEC					
13...	4.75	.556	.606	24	1.2
JAN					
17...	5.56	.703	.743	28	1.4
FEB					
14...	5.04	.669	.856	95	3.8
MAR					
13...	3.95	1.05	1.18	15	.63
APR					
18...	2.06	.528	.790	173	31
MAY					
01...	1.29	.363	.513	87	17
17...	1.87	.435	.555	113	20
30...	2.00	.268	.357	53	8.1
JUN					
13...	2.36	.318	.376	44	6.5
25...	2.32	.274	.337	71	8.6
JUL					
17...	2.92	.310	.355	22	2.7
AUG					
29...	E2.82	E.349	.399	19	2.5
SEP					
18...	5.00	.676	.727	6	.53

ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER QUALITY-DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, COLI-LERT QUANTRY WATER (MPN/ 100 ML) (50468)	TOTAL COLI-FORM, COLILRT QNT,WTR (MPN/ 100 ML) (50569)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
TRIBUTARIES BETWEEN BOISE RIVER GAGING STATIONS AT GLENWOOD BRIDGE AND NEAR PARMA													
13210815 FIFTEENMILE CREEK AT MOUTH NR MIDDLETON ID (LAT 43 41 15N LONG 116 35 22W)													
AUG 29...	1325	57	349	7.7	29.5	18.7	8.9	105	840	550	35000	<.040	.67
132108247 MILL SLOUGH BL GRADE DITCH NR MIDDLETON ID (LAT 43 42 04N LONG 116 37 20W)													
AUG 27...	1200	83	286	7.8	31.5	18.2	7.5	87.3	270	150	15000	<.040	.40
13210835 WILLOW CREEK AT MIDDLETON ID (LAT 43 42 24N LONG 116 37 47W)													
AUG 27...	1415	8.0	150	7.6	36.5	23.1	7.5	96.4	5400	690	>24000	<.040	.40
13210850 MASON SLOUGH AT MOUTH NR CALDWELL ID (LAT 43 41 32N LONG 116 39 56W)													
AUG 28...	1600	13	552	7.4	31.0	21.7	7.3	91.9	4300	720	160000	E.081	.84
13210985 MASON CREEK AT MOUTH NR CALDWELL ID (LAT 43 41 55N LONG 116 40 22W)													
OCT 19...	1000	88	670	7.7	15.0	13.8	9.1	95.7	--	60	12000	<.041	.39
NOV 15...	1415	77	640	8.1	4.0	9.8	11.4	110	--	94	>12000	<.041	.31
DEC 14...	1100	63	650	7.9	2.5	8.8	9.8	92.6	--	90	16000	E.028	.40
JAN 18...	1525	53	620	8.2	4.0	8.0	12.6	115	--	93	330	<.041	.67
FEB 15...	1445	50	650	8.0	8.0	8.8	12.4	117	--	310	2400	.047	.43
MAR 14...	1145	47	635	8.4	10.0	8.9	11.8	111	--	--	--	<.041	.51
APR 19...	1520	69	439	8.2	15.0	14.0	11.4	121	--	S190	S2400	E.030	.60
MAY 02...	1550	86	358	8.1	13.5	12.3	11.3	114	--	S1200	S16000	.109	.93
18...	1210	110	376	8.0	19.0	13.7	10.6	111	--	S2900	>24000	E.035	.85
31...	1115	115	388	7.8	24.0	14.7	9.5	101	--	S1300	S31000	.048	.95
JUN 14...	1220	124	405	7.9	24.5	14.8	9.5	102	--	S380	S17000	.053	.67
26...	1545	76	463	8.0	26.0	19.2	11.3	135	--	S290	>24000	.149	1.1
JUL 18...	1200	102	440	7.9	23.0	16.8	8.9	100	--	S630	S120000	E.025	.62
AUG 28...	1400	90	510	7.9	30.0	18.8	9.0	106	960	1100	73000	<.040	.46
SEP 19...	1430	44	686	8.0	--	17.2	9.4	107	--	1600	>48000	<.040	.58
13210986 W HARTLEY GULCH NR CALDWELL ID (LAT 43 41 59N LONG 116 41 05W)													
AUG 27...	1610	32	243	7.4	35.5	21.0	8.6	105	S1100	610	24000	<.040	.34
13210987 E HARTLEY DRAIN NR CALDWELL ID (LAT 43 41 56N LONG 116 40 38W)													
AUG 28...	0915	66	422	7.4	19.0	16.8	8.3	93.6	S490	360	17000	<.040	.36
13211445 INDIAN CREEK AT MOUTH NR CALDWELL ID (LAT 43 40 26N LONG 116 42 05W)													
OCT 19...	1305	236	750	7.8	17.0	15.0	9.5	103	--	310	200000	<.041	.40
NOV 15...	1120	230	744	7.4	2.5	10.8	9.8	96.9	--	86	12000	<.041	.38
DEC 14...	1315	204	770	8.1	2.5	10.6	9.5	93.8	--	360	17000	E.033	.55
JAN 18...	1240	1.8	755	8.1	1.0	9.3	11.3	106	--	180	390	E.021	.54
FEB 15...	1200	174	790	8.1	.5	9.4	12.4	118	--	190	2400	<.041	.47

WATER QUALITY-DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
TRIBUTARIES BETWEEN BOISE RIVER GAGING STATIONS AT GLENWOOD BRIDGE AND NEAR PARMA					
13210815 FIFTEENMILE CREEK AT MOUTH NR MIDDLETON ID (LAT 43 41 15N LONG 116 35 22W)					
AUG					
29...	E2.41	E.328	.397	30	4.6
132108247 MILL SLOUGH BL GRADE DITCH NR MIDDLETON ID (LAT 43 42 04N LONG 116 37 20W)					
AUG					
27...	E1.22	E.171	.195	14	3.1
13210835 WILLOW CREEK AT MIDDLETON ID (LAT 43 42 24N LONG 116 37 47W)					
AUG					
27...	E.355	E.147	.184	5	.11
13210850 MASON SLOUGH AT MOUTH NR CALDWELL ID (LAT 43 41 32N LONG 116 39 56W)					
AUG					
28...	E1.27	E.535	.601	29	1.0
13210985 MASON CREEK AT MOUTH NR CALDWELL ID (LAT 43 41 55N LONG 116 40 22W)					
OCT					
19...	5.03	.185	.223	30	7.1
NOV					
15...	4.90	.157	.180	18	3.7
DEC					
14...	4.90	.167	.191	25	4.2
JAN					
18...	4.81	.166	.241	80	11
FEB					
15...	4.67	.163	.273	126	17
MAR					
14...	4.58	.141	.229	70	8.9
APR					
19...	2.49	.160	.402	229	42
MAY					
02...	2.62	.338	.634	277	65
18...	2.82	.294	.548	266	79
31...	2.88	.286	.555	289	90
JUN					
14...	3.04	.256	.343	101	34
26...	4.10	.334	.413	101	21
JUL					
18...	3.12	.334	.428	99	27
AUG					
28...	E3.69	E.318	.354	49	12
SEP					
19...	5.24	.316	.367	24	2.8
13210986 W HARTLEY GULCH NR CALDWELL ID (LAT 43 41 59N LONG 116 41 05W)					
AUG					
27...	E1.30	E.163	.196	42	3.6
13210987 E HARTLEY DRAIN NR CALDWELL ID (LAT 43 41 56N LONG 116 40 38W)					
AUG					
28...	E2.48	E.210	.241	30	5.4
13211445 INDIAN CREEK AT MOUTH NR CALDWELL ID (LAT 43 40 26N LONG 116 42 05W)					
OCT					
19...	6.40	.531	.581	31	20
NOV					
15...	6.82	.548	.604	26	16
DEC					
14...	6.99	.512	.576	48	26
JAN					
18...	7.85	.558	.673	48	.24
FEB					
15...	7.62	.586	.659	35	16

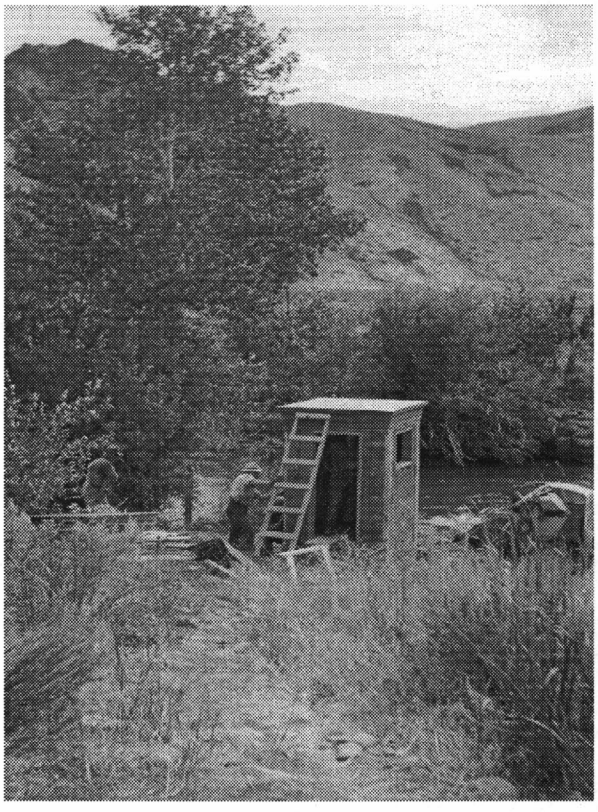
ANALYSES OF SAMPLES COLLECTED AT WATER QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER QUALITY-DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, COLI-LERT QUANTRY WATER (MPN/ 100 ML) (50468)	TOTAL COLI-FORM, COLILRT QNT,WTR (MPN/ 100 ML) (50569)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
TRIBUTARIES BETWEEN BOISE RIVER GAGING STATIONS AT GLENWOOD BRIDGE AND NEAR PARMA													
13211445 INDIAN CREEK AT MOUTH NR CALDWELL ID (LAT 43 40 26N LONG 116 42 05W)													
MAR													
14...	1600	168	749	8.4	12.0	12.5	11.3	115	--	--	--	<.041	.44
APR													
19...	1215	147	412	8.5	13.0	12.7	10.1	105	--	S73	S2400	<.041	.46
MAY													
02...	1255	98	444	8.2	12.5	10.6	12.3	121	--	<1	S17000	.054	.57
18...	1415	84	391	8.3	21.0	15.6	10.6	116	--	S980	S13000	.054	.74
31...	1245	50	417	8.2	25.0	16.5	11.9	132	--	S440	S6100	<.040	.54
JUN													
14...	1530	60	437	8.5	28.5	17.0	10.3	116	--	S85	S14000	E.029	.49
26...	1240	65	427	7.9	24.0	17.4	11.8	135	--	S720	>24000	E.027	.60
JUL													
18...	1355	69	440	8.2	24.0	18.5	9.8	114	--	S270	>24000	<.040	.50
AUG													
28...	1145	66	446	7.8	29.5	18.6	8.4	98.7	600	160	26000	<.040	.43
SEP													
19...	1150	55	515	7.8	19.0	17.0	9.1	103	--	77	28000	<.040	.41
13212550 CONWAY GULCH AT NOTUS ID (LAT 43 43 36N LONG 116 48 12W)													
AUG													
30...	1130	35	570	7.9	26.5	16.8	7.9	89.0	340	200	>24000	<.040	.61
13212890 DIXIE DRAIN NR WILDER ID (LAT 43 43 51N LONG 116 53 18W)													
AUG													
30...	0925	176	510	7.5	17.5	18.7	6.2	72.6	510	23	26000	<.040	.60

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
13211445 INDIAN CREEK AT MOUTH NR CALDWELL ID(LAT 43 40 26N LONG 116 42 05W)					
MAR					
14...	7.74	.548	.622	39	18
APR					
19...	3.44	.348	.477	73	29
MAY					
02...	3.88	.472	.575	57	15
18...	3.44	.409	.523	62	14
31...	3.28	.381	.486	37	5.0
JUN					
14...	3.23	.404	.438	20	3.2
26...	3.21	.499	.534	34	5.9
JUL					
18...	2.50	.378	.440	24	4.5
AUG					
28...	E3.02	E.503	.550	40	7.1
SEP					
19...	4.10	.667	.725	12	1.8
13212550 CONWAY GULCH AT NOTUS ID (LAT 43 43 36N LONG 116 48 12W)					
AUG					
30...	E3.94	E.115	.303	155	15
13212890 DIXIE DRAIN NR WILDER ID (LAT 43 43 51N LONG 116 53 18W)					
AUG					
30...	E1.84	E.316	.357	33	16

E Estimated value
S Most probable value



Little Wood River near Carey, Idaho. (Aug. 19. 1938)

ANALYSES OF SAMPLES COLLECTED AT PAYETTE LAKE SITES

445550116055000 PAYETTE LAKE ST. 1 SW BASIN NEAR MCCALL, ID

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLING DEPTH (M) (00098)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	PHEOPHYTIN A, PHYTOPHYTON (UG/L) (62360)
MAY											
22...	1535	2.0	.014	<.002	--	.12	.007	--	<.007	5.6	1.8
22...	1600	67.0	.056	.034	.115	.15	.009	--	<.007	--	--
JUN											
19...	1500	2.0	<.005	.006	.200	.21	.006	--	<.007	1.5	2.0
19...	1515	65.0	.096	.006	--	E.07	.009	--	<.007	--	--
JUL											
25...	1005	2.0	.006	<.002	--	.01	.009	--	<.007	2.0	.9
25...	1015	68.0	.147	.002	.127	.13	.013	--	<.007	--	--
AUG											
29...	1355	2.0	<.005	.006	.154	.16	.005	--	<.007	2.0	.8
29...	1400	67.0	.162	.032	.122	.15	.031	--	.013	--	--
SEP											
26...	1000	2.0	--	--	--	--	.004	<.004	--	1.9	.8
26...	0955	67.0	--	--	--	--	.040	.026	--	--	--

DATE	TIME	DEPTH BOTTOM AT SAMPLE LOCATION, (FEET) (81903)	TEMPERATURE AIR (DEG C) (00020)	LIGHT INCID. 400-700NM INTENS. (U-EINS/SQM/S) (00200)	LIGHT, ATTENUATION COEFFICIENT (ALPHA/METER) (70971)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	TRANSPARENCY (SECCHI DISK) (M) (00078)
MAY							
22...	1530	224.0	28.0	1700	.47	10	3.50
JUN							
19...	1430	219.0	23.0	1900	.38	12	4.50
JUL							
25...	0940	220.0	23.5	1050	.37	12	7.00
AUG							
29...	1330	220.0	--	1750	.33	14	7.20
SEP							
26...	0925	226.0	10.0	430	.31	12	6.00

Note: Sampling depths of 2 meters denote a depth-integrated sample of the euphotic zone.
< Less than
E Estimated value

ANALYSES OF SAMPLES COLLECTED AT PAYETTE LAKE SITES

445550116055000 PAYETTE LAKE ST. 1 SW BASIN NEAR MCCALL, ID--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLING DEPTH (M) (00098)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY								
22...	1540	1.0	11.9	19	--	10.8	117	653
22...	1541	3.0	9.1	19	--	11.1	112	653
22...	1542	5.0	8.4	18	--	10.8	108	653
22...	1543	7.0	7.8	18	--	10.4	102	653
22...	1544	9.0	7.0	18	--	10.1	97.2	653
22...	1545	11.0	6.6	18	--	9.8	93.4	653
22...	1546	13.0	6.4	18	--	9.7	91.9	653
22...	1547	15.0	6.1	19	--	9.4	88.4	653
22...	1548	20.0	5.5	19	--	9.2	85.2	653
22...	1549	30.0	4.6	19	--	8.6	77.8	653
22...	1550	40.0	4.4	19	--	8.3	74.7	653
22...	1551	50.0	4.3	19	--	7.9	70.9	653
22...	1552	60.0	4.3	20	--	6.6	59.3	653
22...	1553	65.0	4.3	20	--	6.5	58.4	653
22...	1554	67.0	4.3	20	--	6.4	57.5	653
JUN								
19...	1435	1.0	15.2	17	7.9	10.4	121	653
19...	1436	3.0	13.9	17	8.0	12.1	137	653
19...	1437	5.0	12.8	17	8.1	12.3	136	653
19...	1438	7.0	9.6	17	8.2	12.7	130	653
19...	1439	9.0	8.0	17	8.3	12.3	121	653
19...	1440	11.0	7.1	17	8.3	11.1	107	653
19...	1441	13.0	6.8	17	8.2	10.3	98.6	653
19...	1442	15.0	6.3	18	8.1	9.8	92.7	653
19...	1443	20.0	5.4	18	8.0	9.1	84.1	653
19...	1444	30.0	4.5	18	8.0	8.4	75.8	653
19...	1445	40.0	4.2	18	7.9	8.1	72.5	653
19...	1446	50.0	4.1	18	7.9	7.4	66.1	653
19...	1447	60.0	4.1	19	7.8	6.5	58.1	653
19...	1448	62.0	4.1	19	7.8	6.3	56.3	653
19...	1449	64.0	4.1	20	7.7	6.2	55.4	653
19...	1450	66.0	4.1	20	7.7	5.9	52.7	653
19...	1451	66.6	4.1	20	7.7	5.8	51.8	653
JUL								
25...	0945	1.0	20.2	17	7.4	8.9	116	650
25...	0946	3.0	19.4	17	7.5	9.2	118	650
25...	0947	5.0	18.5	17	7.7	9.3	117	650
25...	0948	7.0	11.7	17	8.1	11.4	123	650
25...	0949	9.0	9.0	17	8.2	11.3	115	650
25...	0950	11.0	8.2	17	8.2	10.4	104	650
25...	0951	13.0	7.5	17	8.2	9.7	94.9	650
25...	0952	15.0	7.0	17	8.1	9.2	88.9	650
25...	0953	20.0	5.3	18	8.0	8.3	76.9	650
25...	0954	30.0	4.4	18	7.8	8.0	72.4	650
25...	0955	40.0	4.2	18	7.7	8.1	72.9	650
25...	0956	50.0	4.1	19	7.7	7.2	64.6	650
25...	0957	60.0	4.1	20	7.5	5.9	53.0	650
25...	0958	62.0	4.1	21	7.5	5.5	49.4	650
25...	0959	64.0	4.1	21	7.5	4.6	41.3	650
25...	1000	66.0	4.1	24	7.4	3.3	29.6	650
AUG								
29...	1335	1.0	19.8	18	8.2	8.6	111	648
29...	1336	3.0	19.8	18	8.2	8.6	111	648
29...	1337	5.0	19.5	18	8.2	8.6	111	648
29...	1338	7.0	13.7	17	8.4	10.0	114	648
29...	1339	9.0	10.4	17	8.6	11.4	120	648
29...	1340	11.0	8.4	18	8.8	10.1	101	648
29...	1341	13.0	7.3	18	8.8	8.8	86.0	648
29...	1342	15.0	6.6	18	8.8	7.7	73.9	648
29...	1343	20.0	5.5	18	8.8	7.2	67.2	648
29...	1344	30.0	4.6	19	8.6	7.5	68.4	648
29...	1345	40.0	4.3	19	8.4	7.2	65.2	648
29...	1346	50.0	4.1	19	8.2	6.5	58.5	648
29...	1347	60.0	4.1	19	8.0	4.9	44.1	648
29...	1348	62.0	4.1	20	8.0	4.4	39.6	648
29...	1349	64.0	4.1	23	7.9	3.4	30.6	648
29...	1350	64.8	4.1	26	7.8	1.5	13.5	648
SEP								
26...	0930	1.0	16.6	19	---	8.7	105	649
26...	0931	5.0	16.6	19	---	8.7	105	649
26...	0932	7.0	16.6	19	---	8.7	105	649
26...	0933	8.0	15.6	19	---	8.8	104	649
26...	0934	9.0	12.6	19	---	9.8	108	649
26...	0935	10.0	11.2	19	---	9.6	103	649
26...	0936	11.0	10.0	19	---	8.6	89.6	649
26...	0937	15.0	6.9	19	---	6.8	65.7	649
26...	0938	20.0	5.8	19	---	6.6	62.0	649
26...	0939	30.0	5.0	19	---	6.8	62.6	649
26...	0940	40.0	4.5	19	---	7.1	64.5	649
26...	0941	50.0	4.4	19	---	6.4	58.0	649
26...	0942	60.0	4.4	19	---	4.8	43.5	649
26...	0943	62.0	4.3	19	---	3.5	31.6	649
26...	0944	64.0	4.3	22	---	1.6	14.5	649
26...	0945	66.0	4.3	27	---	0	0	649
26...	0946	68.0	4.3	35	---	0	0	649
26...	0947	68.5	4.3	37	---	0	0	649

ANALYSES OF SAMPLES COLLECTED AT PAYETTE LAKE SITES

445615116033500 PAYETTE LAKE ST. 4 SE BASIN NEAR MCCALL, ID

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLING DEPTH (M) (00098)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	PHEOPHYTIN A, PHYTOPHYTON (UG/L) (62360)
MAY											
23...	0947	2.0	.031	<.002	--	.11	.005	--	<.007	4.9	1.6
23...	0950	32.0	.052	.002	--	E.08	.004	--	<.007	--	--
JUN											
19...	1215	2.0	.011	.004	.161	.17	.005	--	<.007	1.2	.9
19...	1230	34.0	.067	.005	.104	.11	.005	--	<.007	--	--
JUL											
24...	1515	2.0	.010	<.002	--	.11	.004	--	<.007	1.5	1.1
24...	1450	35.0	.067	.012	.125	.14	.005	--	<.007	--	--
AUG											
29...	1115	2.0	.005	.003	.122	.12	.006	--	<.007	1.2	.6
29...	1130	33.0	.067	.003	.088	.09	E.003	--	<.007	--	--
SEP											
26...	1400	2.0	--	--	--	--	.003	<.004	--	1.5	.4
26...	1330	33.0	--	--	--	--	.005	<.004	--	--	--

DATE	TIME	DEPTH BOTTOM AT SAMPLE LOCATION, (FEET) (81903)	TEMPERATURE AIR (DEG C) (00020)	LIGHT INCID. 400-700NM INTENS. (U-EINS/SQM/S) (00200)	LIGHT, ATTENUATION COEFFICIENT (ALPHA/METER) (70971)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	TRANSPARENCY (SECCHI DISK) (M) (00078)
MAY							
23...	0930	107.0	15.0	1000	.51	9.0	4.80
JUN							
19...	1155	115.0	18.0	1720	.39	11	4.50
JUL							
24...	1455	118.0	25.5	1850	.37	12	6.50
AUG							
29...	1050	115.0	23.0	1370	.37	12	7.80
SEP							
25...	1332	115.0	--	--	--	--	--

Note: Sampling depths of 2 meters denote a depth-integrated sample of the euphotic zone.
< Less than
E Estimated value

ANALYSES OF SAMPLES COLLECTED AT PAYETTE LAKE SITES

445615116033500 PAYETTE LAKE ST. 4 SE BASIN NEAR MCCALL, ID--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLING DEPTH (M) (00098)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY								
23...	0935	1.0	10.9	17	--	10.7	113	652
23...	0936	3.0	9.0	17	--	11.1	112	652
23...	0937	5.0	8.4	17	--	11.1	111	652
23...	0938	7.0	8.0	17	--	10.6	105	652
23...	0939	9.0	7.1	17	--	10.4	100	652
23...	0940	11.0	6.6	17	--	10.2	97.3	652
23...	0941	13.0	6.2	17	--	10.1	95.4	652
23...	0942	15.0	5.8	17	--	10.0	93.5	652
23...	0943	20.0	5.2	17	--	9.9	91.1	652
23...	0944	25.0	4.8	17	--	9.6	87.5	652
23...	0945	30.0	4.7	17	--	9.4	85.4	652
JUN								
19...	1200	1.0	14.0	16	7.8	10.1	115	653
19...	1201	3.0	13.6	16	7.9	9.9	111	653
19...	1202	5.0	13.4	16	7.9	9.3	104	653
19...	1203	7.0	11.3	16	7.9	9.3	99.3	653
19...	1204	9.0	7.6	17	8.0	9.9	96.7	653
19...	1205	11.0	6.9	17	7.9	9.9	95.0	653
19...	1206	13.0	6.4	16	7.9	9.9	93.8	653
19...	1207	15.0	6.2	16	7.9	10.5	99.0	653
19...	1208	20.0	5.8	16	7.9	9.5	88.7	653
19...	1209	25.0	5.4	16	7.9	9.5	87.8	653
19...	1210	30.0	5.1	16	7.9	9.3	85.3	653
19...	1211	33.8	5.0	16	7.9	9.2	84.1	653
JUL								
24...	1500	1.0	20.0	17	8.0	9.1	117	655
24...	1501	3.0	19.3	17	8.1	9.9	125	655
24...	1502	5.0	17.4	17	8.2	10.0	122	655
24...	1503	7.0	9.7	16	8.5	11.4	117	655
24...	1504	9.0	8.1	16	8.6	10.6	104	655
24...	1505	11.0	6.8	16	8.7	10.3	98.3	655
24...	1506	13.0	6.8	16	8.6	9.9	94.5	655
24...	1507	15.0	6.4	17	8.6	9.6	90.7	655
24...	1508	20.0	5.8	17	8.5	9.3	86.6	655
24...	1509	25.0	5.4	17	8.4	9.0	82.9	655
24...	1510	30.0	5.3	17	8.3	8.5	78.1	655
24...	1511	34.0	5.3	17	8.2	7.7	70.7	655
AUG								
29...	1055	1.0	19.4	18	7.5	8.3	106	648
29...	1056	3.0	19.4	18	7.6	8.3	106	648
29...	1057	5.0	19.3	18	7.6	8.3	106	648
29...	1058	7.0	17.8	18	7.6	8.6	107	648
29...	1059	9.0	8.3	16	8.0	10.1	101	648
29...	1100	11.0	7.1	16	8.2	9.2	89.4	648
29...	1101	13.0	6.5	17	8.2	8.9	85.2	648
29...	1102	15.0	6.4	17	8.2	8.6	82.2	648
29...	1103	20.0	5.9	17	8.2	8.3	78.3	648
29...	1104	25.0	5.5	17	8.1	8.2	76.6	648
29...	1105	30.0	5.4	17	8.1	7.9	73.6	648
29...	1106	31.0	5.4	17	8.0	7.6	70.8	648
SEP								
25...	1335	1.0	16.4	18	7.7	9.6	116	644
25...	1336	3.0	16.3	17	7.7	9.6	116	644
25...	1337	5.0	16.2	18	7.8	9.5	115	644
25...	1338	7.0	15.7	17	7.8	9.5	113	644
25...	1339	9.0	9.9	16	7.8	10.0	105	644
25...	1340	11.0	7.5	16	7.9	9.4	92.9	644
25...	1341	13.0	6.6	16	8.0	9.1	87.9	644
25...	1342	15.0	6.3	16	7.9	8.8	84.4	644
25...	1343	20.0	5.8	17	7.9	8.5	80.5	644
25...	1344	25.0	5.6	17	7.8	8.2	77.2	644
25...	1345	30.0	5.4	17	7.7	7.1	66.5	644
25...	1346	32.6	5.4	18	7.7	6.1	57.2	644

ANALYSES OF SAMPLES COLLECTED AT PAYETTE LAKE SITES

445850116035000 PAYETTE LAKE ST. 3 NE BASIN NEAR MCCALL, ID

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLING DEPTH (M) (00098)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	PHEOPHYTIN A, PHYTOPHYTON (UG/L) (62360)
MAY											
22...	1415	2.0	.041	<.002	--	.11	.006	--	<.007	2.0	.7
22...	1500	86.0	.062	<.002	--	.14	E.004	--	<.007	--	--
JUN											
19...	1400	2.0	.012	.004	.106	.11	.005	--	<.007	1.8	.8
19...	1430	90.0	.088	.006	.083	.09	.004	--	<.007	--	--
JUL											
24...	1350	2.0	.006	.005	.288	.29	.005	--	<.007	2.3	1.6
24...	1400	88.0	.093	.012	--	E.08	.004	--	<.007	--	--
AUG											
29...	1300	2.0	.005	<.002	--	.16	.005	--	<.007	1.9	1.4
29...	1315	90.0	.149	.023	.123	.15	.009	--	<.007	--	--
SEP											
25...	1200	2.0	--	--	--	--	.004	<.004	--	1.4	.6
25...	1215	88.0	--	--	--	--	.007	.005	--	--	--

DATE	TIME	DEPTH BOTTOM AT SAMPLE LOCATION, (FEET) (81903)	TEMPERATURE AIR (DEG C) (00020)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT, ATTENUATION COEFFICIENT (ALPHA/METER) (70971)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	TRANSPARENCY (SECCHI DISK) (M) (00078)
MAY							
22...	1430	296.0	26.0	1800	.45	11	4.50
JUN							
19...	1325	295.0	21.0	1930	.38	12	4.50
JUL							
24...	1310	297.0	26.0	1900	.39	12	6.50
AUG							
29...	1230	297.0	--	1700	.36	12	7.00
SEP							
25...	1130	296.0	--	1360	.33	13	8.00

Note: Sampling depths of 2 meters denote a depth-integrated sample of the euphotic zone.
< Less than
E Estimated value

ANALYSES OF SAMPLES COLLECTED AT PAYETTE LAKE SITES

445850116035000 PAYETTE LAKE ST. 3 NE BASIN NEAR MCCALL, ID

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLING DEPTH (M) (00098)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	BAROMETRIC PRESSURE (MM OF HG) (00025)
MAY								
22...	1435	1.0	9.5	16	--	10.1	103	653
22...	1436	3.0	8.1	16	--	10.1	99.9	653
22...	1437	5.0	7.6	16	--	10.1	98.6	653
22...	1438	7.0	7.4	16	--	10.1	98.2	653
22...	1439	9.0	7.1	16	--	10.1	97.4	653
22...	1440	11.0	6.5	16	--	9.9	94.1	653
22...	1441	13.0	6.2	16	--	9.8	92.4	653
22...	1442	15.0	5.9	16	--	9.8	91.7	653
22...	1443	20.0	5.5	17	--	9.6	88.9	653
22...	1444	30.0	5.1	17	--	9.6	88.0	653
22...	1445	40.0	4.7	17	--	9.3	84.4	653
22...	1446	50.0	4.6	17	--	9.2	83.3	653
22...	1447	60.0	4.4	18	--	9.1	81.9	653
22...	1448	70.0	4.4	17	--	9.0	81.0	653
22...	1449	80.0	4.3	18	--	8.8	79.0	653
22...	1450	85.0	4.2	18	--	8.6	77.0	653
22...	1451	90.0	4.2	18	--	8.3	74.3	653
JUN								
19...	1330	1.0	13.4	15	8.0	10.7	120	653
19...	1331	3.0	13.2	15	8.0	12.2	136	653
19...	1332	5.0	12.9	15	8.0	12.4	137	653
19...	1333	7.0	11.2	15	8.0	12.3	131	653
19...	1334	9.0	9.3	15	8.0	12.0	122	653
19...	1335	11.0	7.4	15	8.0	11.6	113	653
19...	1336	13.0	6.4	16	8.0	11.0	104	653
19...	1337	15.0	6.0	16	7.9	10.6	99.5	653
19...	1338	20.0	5.8	16	7.9	10.2	95.2	653
19...	1339	30.0	5.3	16	7.8	9.7	89.4	653
19...	1340	40.0	4.8	16	7.8	9.5	86.4	653
19...	1341	50.0	4.4	16	7.8	9.2	82.8	653
19...	1342	60.0	4.2	16	7.8	9.1	81.5	653
19...	1343	70.0	4.1	17	7.8	8.9	79.5	653
19...	1344	80.0	4.0	17	7.8	8.7	77.5	653
19...	1345	85.0	4.0	17	7.7	8.3	73.9	653
19...	1346	87.7	4.0	17	7.7	8.0	71.3	653
JUL								
24...	1315	1.0	19.4	17	8.0	9.3	118	655
24...	1316	3.0	19.1	17	8.1	9.8	124	655
24...	1317	5.0	17.4	17	8.2	10.0	122	655
24...	1318	7.0	12.6	16	8.4	11.1	122	655
24...	1319	9.0	9.7	16	8.5	10.8	111	655
24...	1320	11.0	7.0	16	8.6	10.3	98.8	655
24...	1321	13.0	6.5	16	8.6	9.8	92.8	655
24...	1322	15.0	6.4	16	8.5	9.7	91.7	655
24...	1323	20.0	6.0	16	8.4	9.6	89.8	655
24...	1324	30.0	5.3	17	8.3	9.3	85.4	655
24...	1325	40.0	4.8	17	8.2	9.1	82.5	655
24...	1326	50.0	4.5	17	8.1	8.9	80.1	655
24...	1327	60.0	4.3	17	8.1	8.7	77.9	655
24...	1328	70.0	4.2	17	8.0	8.7	77.7	655
24...	1329	80.0	4.1	17	7.9	8.5	75.7	655
24...	1330	85.0	4.1	18	7.9	7.8	69.5	655
AUG								
29...	1235	1.0	18.7	17	7.7	8.6	109	648
29...	1236	3.0	18.6	17	7.8	8.6	109	648
29...	1237	5.0	18.5	17	7.8	8.6	108	648
29...	1238	7.0	13.5	16	7.9	9.3	105	648
29...	1239	9.0	9.7	16	8.1	10.4	108	648
29...	1240	11.0	7.2	16	8.2	9.1	88.7	648
29...	1241	13.0	6.8	16	8.2	8.7	83.9	648
29...	1242	15.0	6.7	16	8.2	8.6	82.8	648
29...	1243	20.0	5.9	17	8.1	8.6	81.1	648
29...	1244	30.0	5.2	16	8.0	8.4	77.8	648
29...	1245	40.0	4.7	17	8.0	8.6	78.6	648
29...	1246	50.0	4.5	17	8.0	8.2	74.6	648
29...	1247	60.0	4.4	17	7.9	8.1	73.5	648
29...	1248	70.0	4.2	17	7.9	8.2	74.0	648
29...	1249	80.0	4.2	18	7.8	7.4	66.8	648
29...	1250	85.0	4.2	20	7.7	6.1	55.1	648
29...	1251	87.0	4.2	22	7.7	4.7	42.4	648
SEP								
25...	1135	1.0	16.1	18	7.3	9.5	114	644
25...	1136	3.0	16.1	18	7.3	9.5	114	644
25...	1137	5.0	16.0	17	7.3	9.5	114	644
25...	1138	7.0	15.9	17	7.4	9.5	114	644
25...	1139	9.0	10.4	16	7.5	10.0	106	644
25...	1140	11.0	7.8	16	7.5	9.1	90.6	644
25...	1141	13.0	7.1	16	7.6	8.8	86.1	644
25...	1142	15.0	6.9	16	7.5	8.8	85.7	644
25...	1143	20.0	6.1	16	7.5	8.7	83.0	644
25...	1144	30.0	5.4	17	7.6	8.7	81.5	644
25...	1145	40.0	4.7	17	7.6	8.8	81.0	644
25...	1146	50.0	4.5	17	7.6	8.4	76.9	644
25...	1147	60.0	4.4	17	7.6	8.2	74.9	644
25...	1148	70.0	4.3	17	7.5	8.0	72.9	644
25...	1149	80.0	4.2	18	7.5	7.2	65.4	644
25...	1150	85.0	4.2	19	7.4	6.2	56.3	644

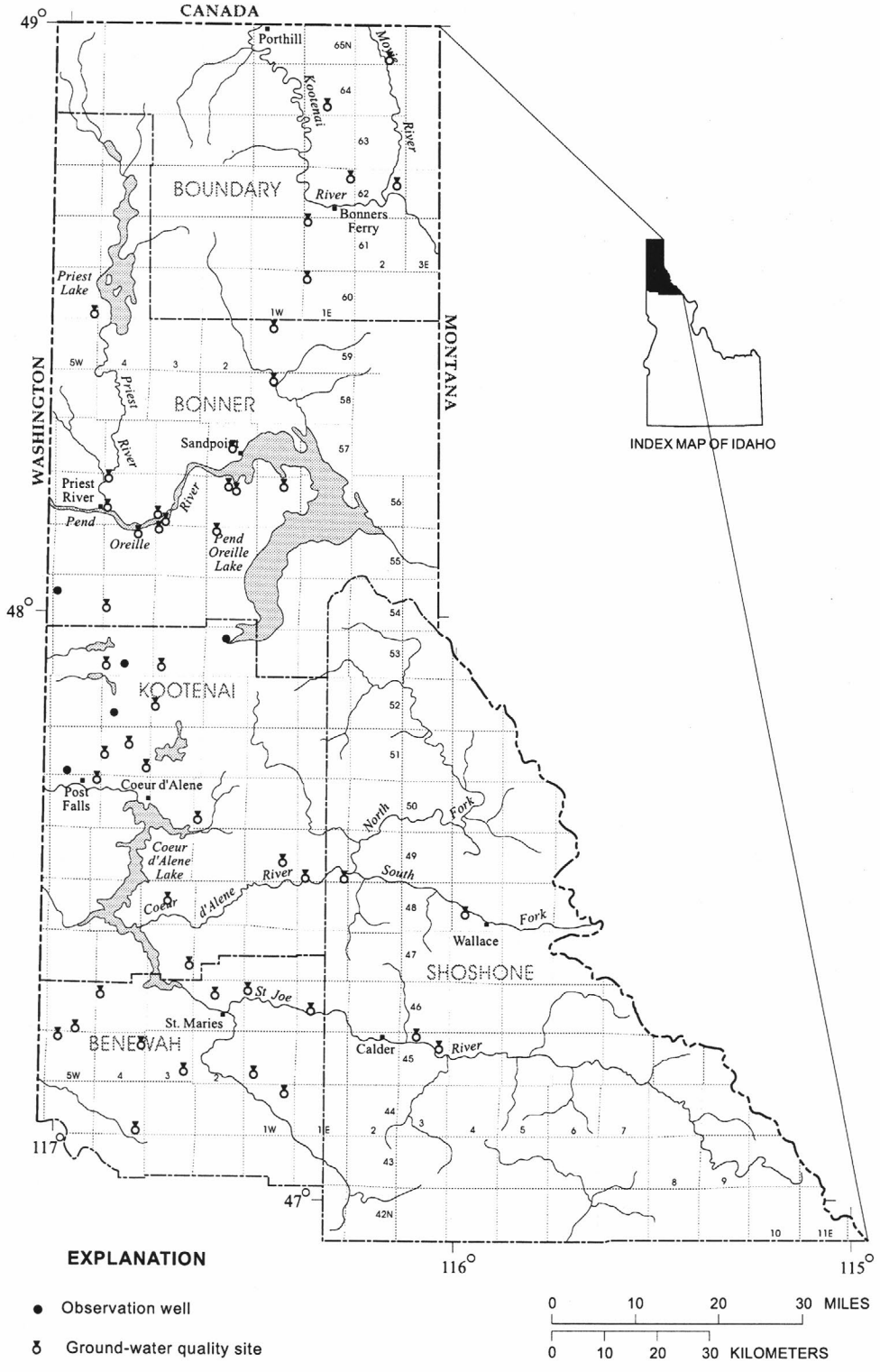


Figure 19. Locations of observation wells and ground-water-quality sites in north Idaho.

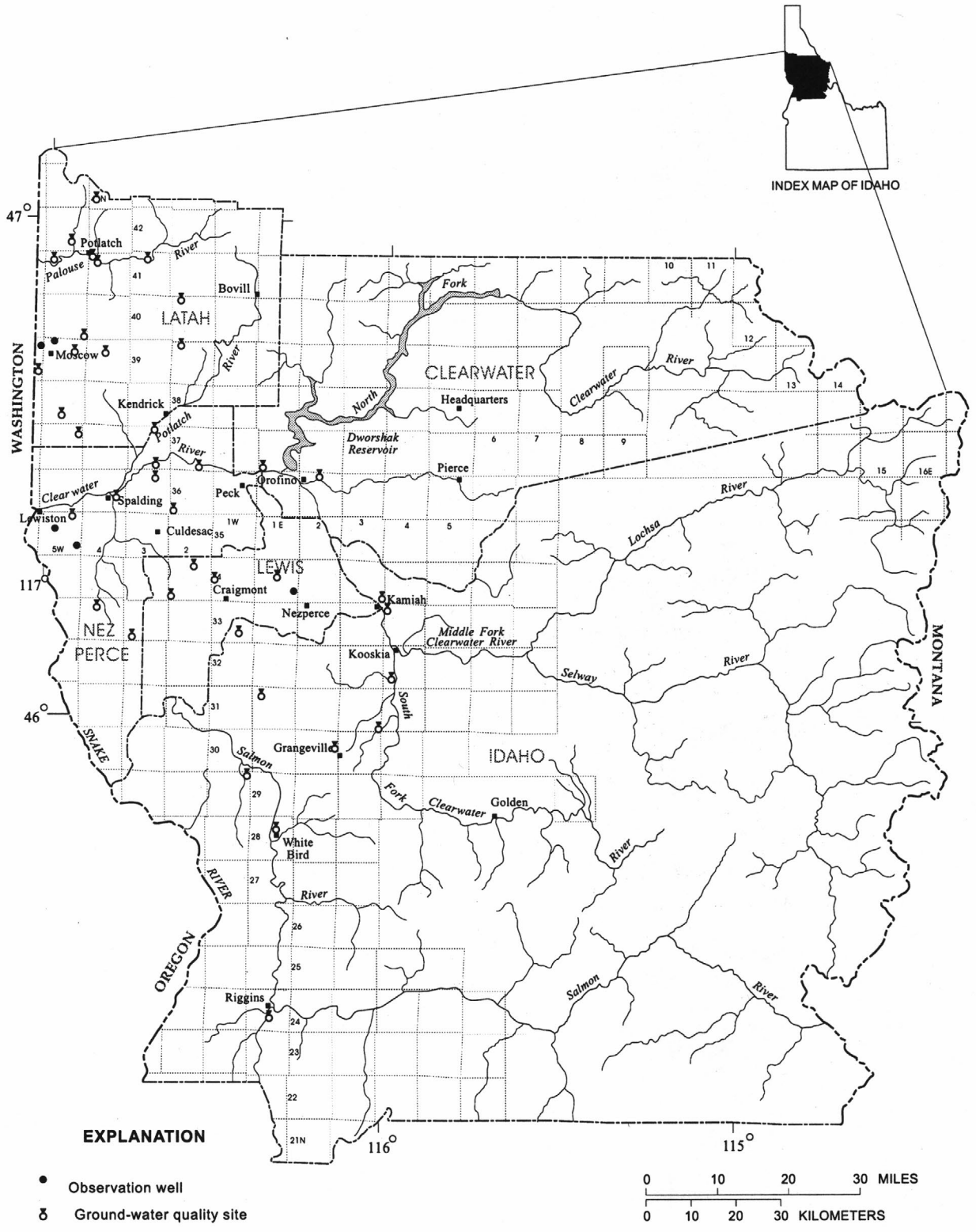


Figure 20. Locations of observation wells and ground-water-quality sites in north-central Idaho.

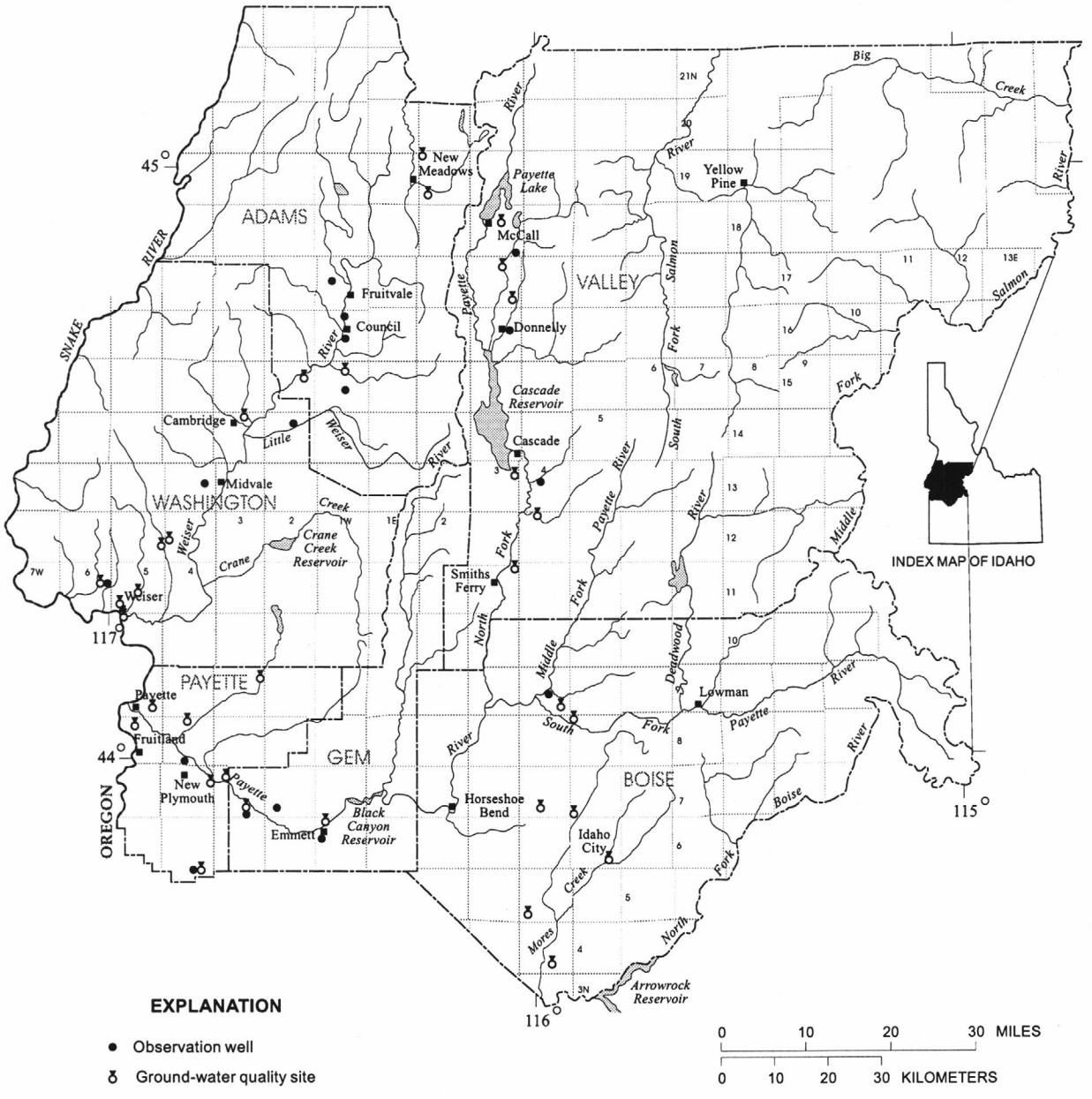


Figure 21. Locations of observation wells and ground-water-quality sites in west-central Idaho.

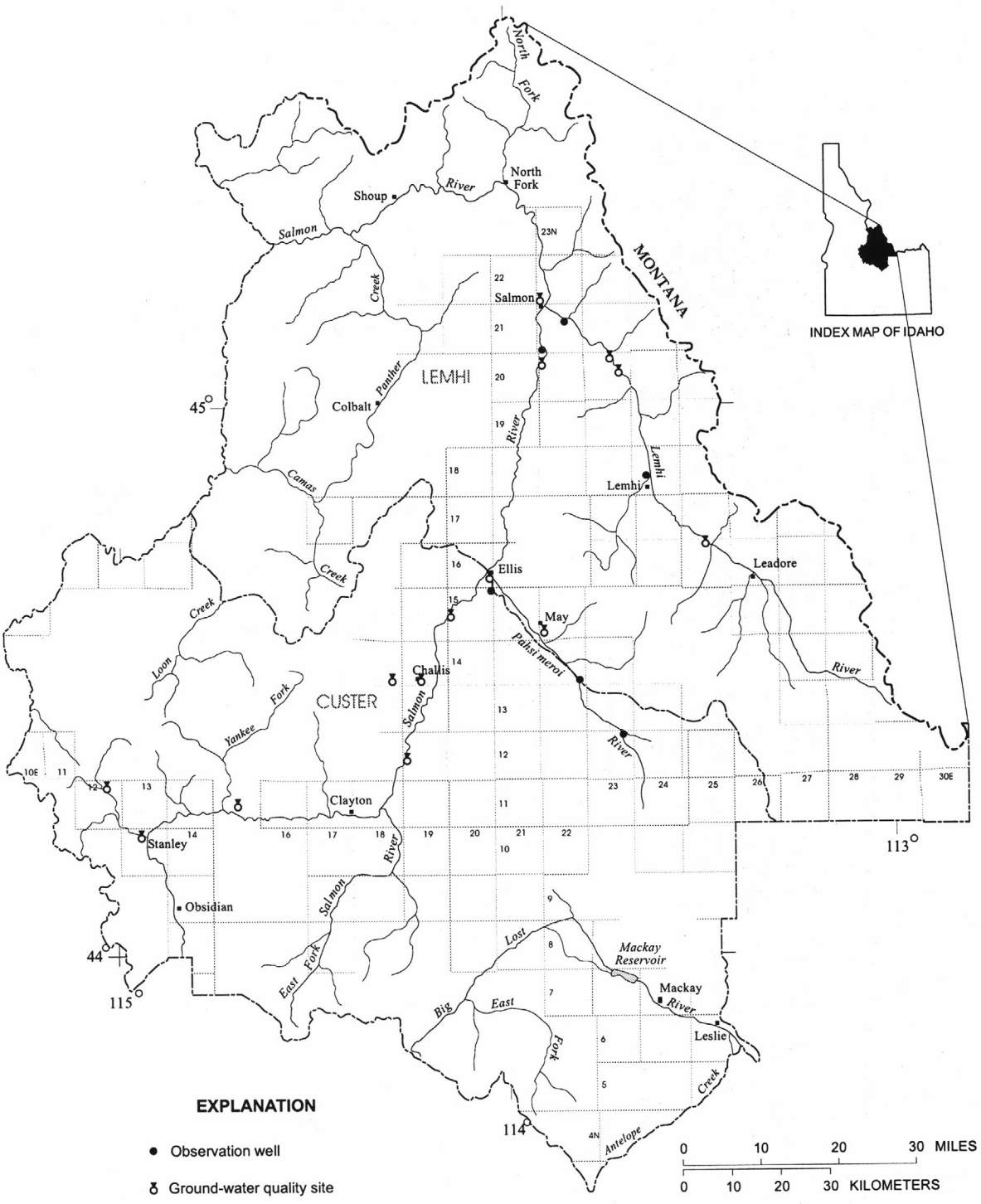


Figure 22. Locations of observation wells and ground-water-quality sites in east-central Idaho.

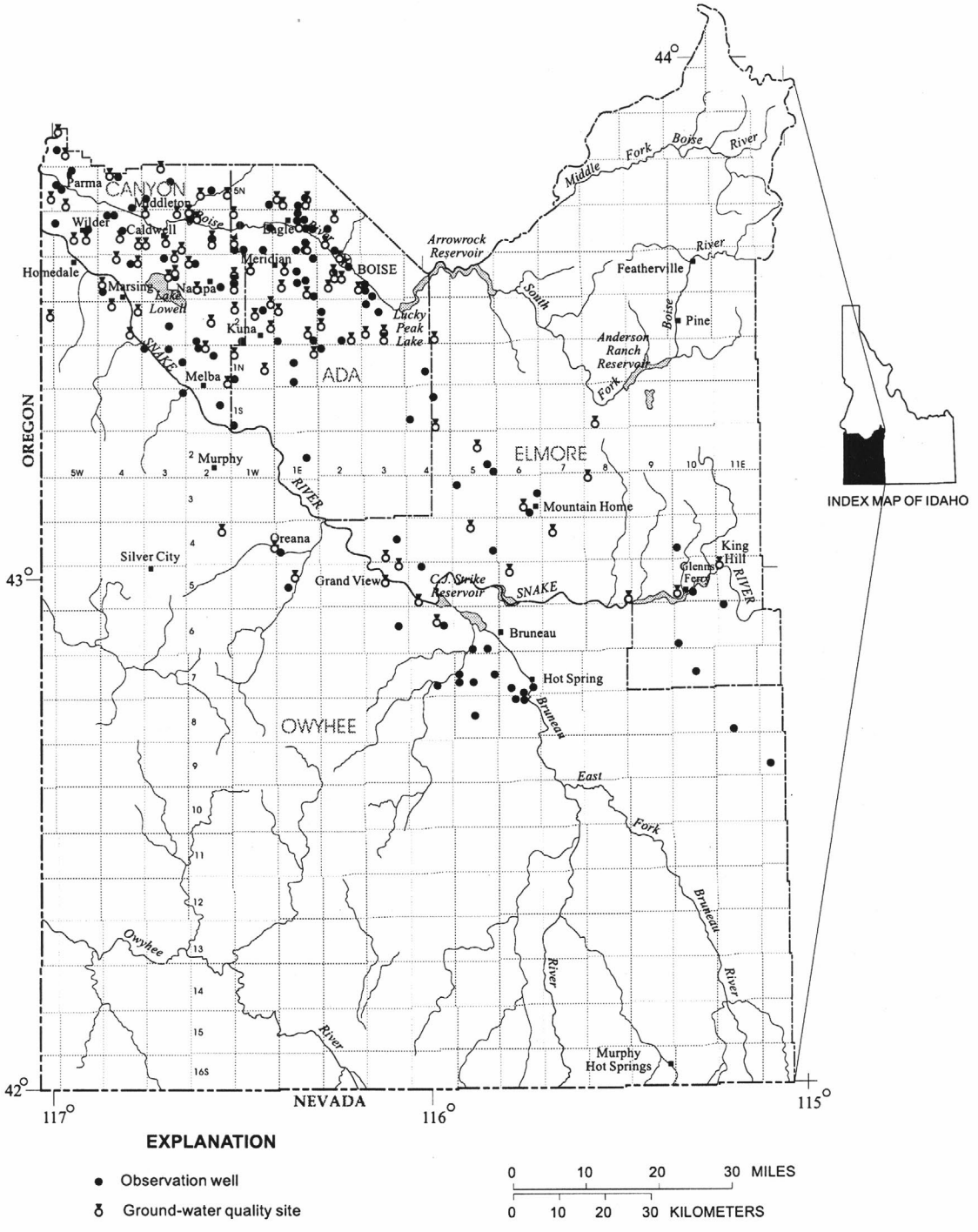


Figure 23. Locations of observation wells and ground-water-quality sites in southwest Idaho.

STATION NAME 05N 01W 36ABB1 SITE NUMBER 434406116240801

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 105 FT, CASED TO 105 FT. LATITUDE 43°44'47", LONGITUDE 116°24'08". LSD ABOUT 2,618 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE, 1.20 FT ABOVE LSD (SINCE APR 28, 1997).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 68.84 FEET BELOW LAND SURFACE DATUM SEP 16, 1986.
LOWEST WATER LEVEL 79.08 FEET BELOW LAND SURFACE DATUM APR 17, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 20	73.34	DEC 12	75.42	FEB 13	77.55	APR 17	79.08	JUN 19	76.69	AUG 16	75.20R
NOV 17	74.62	JAN 25	76.95	MAR 13	78.25	MAY 15	78.52	JUL 17	80.85R	SEP 11	74.40

STATION NAME 05N 01E 26DCD1 SITE NUMBER 434412116175801

DRILLED DOMESTIC-IRRIGATION GEOTHERMAL ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 TO 10 IN, DEPTH 688 FT, 12-IN CASING TO 340 FT, 8-IN CASING 321-688 FT, PERFORATED 633-688 FT. LATITUDE 43°44'23", LONGITUDE 116°17'57". LSD ABOUT 2,750 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 3.00 FT ABOVE LSD (SINCE JUL 25, 1969).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 8.63 FEET BELOW LAND SURFACE DATUM MAR 22, 1999.
LOWEST WATER LEVEL 20.08 FEET BELOW LAND SURFACE DATUM JUL 17, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 20	13.96P	DEC 12	12.79P	FEB 13	15.17P	APR 19	14.00P	JUN 19	18.73P	AUG 16	18.12P
NOV 17	14.23P	JAN 25	15.40P	MAR 13	14.44P	MAY 17	14.45P	JUL 17	20.08P	SEP 11	19.82P

STATION NAME 05N 01E 34DBB1 SITE NUMBER 434341116192001

DRILLED UNUSED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 175 FT, CASED TO 175 FT, PERFORATED 0-175 FT. LATITUDE 43°43'41", LONGITUDE 116°19'20". LSD ABOUT 2,680 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM EDGE OF 1/4-IN HOLE IN CASING SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE DEC 16, 1966).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.
HIGHEST WATER LEVEL 23.33 FEET BELOW LAND SURFACE DATUM SEP 25, 1984.
LOWEST WATER LEVEL 32.53 FEET BELOW LAND SURFACE DATUM NOV 17, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 17	32.53	JAN 25	29.97	MAR 13	30.47	MAY 17	30.98	JUL 17	31.18	SEP 11	29.41

STATION NAME 04N 01W 13AACC1 SITE NUMBER 434106116240301

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 16 TO 12 IN, DEPTH 332FT, 16-IN CASING TO 50 FT, 12-IN CASING TO 266.2 FT, 8-IN CASING 161.5-332 FT, PERFORATED 240-320 FT, GRAVEL PACK 161-320 FT. LATITUDE 43°41'19", LONGITUDE 116°23'50". LSD ABOUT 2,525 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF BOLTS ON WELL HEAD NORTHWEST SIDE, 1.70 FT ABOVE LSD (SINCE MAR 20, 1998).

RECORDS AVAILABLE 1996, 1998, 2000 TO CURRENT YEAR.
HIGHEST WATER LEVEL +10.86 FEET ABOVE LAND SURFACE DATUM MAR 21, 1996.
LOWEST WATER LEVEL +9.58 FEET ABOVE LAND SURFACE DATUM SEP 18, 1996.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 11	+10.81	MAR 21	+10.00

STATION NAME 04N 01W 17BBDB1 SITE NUMBER 434124116292101

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 149 FT, CASED TO 140 FT. LATITUDE 43°41'24", LONGITUDE 116°29'21". LSD ABOUT 2,470 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTH SIDE, 1.65 FT ABOVE LSD (SINCE AUG 22, 1996)

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL +2.25 FEET ABOVE LAND SURFACE DATUM APR 28, 1997.
LOWEST WATER LEVEL + .12 FEET ABOVE LAND SURFACE DATUM JUL 11, 2000.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	+2.08	DEC 12	+1.57	FEB 13	+1.20	APR 17	+.81	JUN 19	+.84	AUG 16	+.29
NOV 14	+1.65	JAN 23	+1.01	MAR 13	+1.27	MAY 15	+1.45	JUL 17	+.25	SEP 11	+.95

STATION NAME 04N 01W 17BBDC1 SITE NUMBER 434120116292101

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 4 IN, DEPTH 424 FT, CASED TO 381 FT. LATITUDE 43°41'20", LONGITUDE 116°29'21". LSD ABOUT 2,468 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF CONCRETE PAD AT LSD (SINCE APR 05, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL +44.00 FEET ABOVE LAND SURFACE DATUM MAR 26, 1997.
LOWEST WATER LEVEL +29.92 FEET ABOVE LAND SURFACE DATUM SEP 11, 2001.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	+38.90	DEC 12	+39.44	FEB 13	+41.40	APR 17	+42.70	JUN 19	+33.42	AUG 16	+34.52
NOV 14	+39.12	JAN 23	+42.50	MAR 13	+41.30	MAY 15	+37.62	JUL 17	+31.42	SEP 11	+29.92

STATION NAME 04N 01W 31AAA1 SITE NUMBER 433852116293401

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 462 FT, CASED TO 455 FT. LATITUDE 43°38'52", LONGITUDE 116°29'34". LSD ABOUT 2,508 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 6-IN CASING PLUG, 3.50 FT ABOVE LSD (SINCE APR 28, 1967).

RECORDS AVAILABLE 1967-1971, 1992 TO CURRENT YEAR.
HIGHEST WATER LEVEL +30.62 FEET ABOVE LAND SURFACE DATUM DEC 04, 1968.
LOWEST WATER LEVEL +11.50 FEET ABOVE LAND SURFACE DATUM JUL 18, 2001.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	+21.70	DEC 15	+18.64	JUL 18	+11.50	SEP 12	+15.22
NOV 17	+19.25	JAN 25	+22.40	AUG 15	+15.52		

STATION NAME 04N 01W 32BBBC1 SITE NUMBER 433849116293201

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 65 FT, 6-IN CASING TO 62 FT, 5-IN CASING 53-60 FT, 5-IN SCREEN 60-65 FT. LATITUDE 43°38'49", LONGITUDE 116°29'32". LSD ABOUT 2,510 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTH SIDE, 2.50 FT ABOVE LSD (SINCE MAR 20, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 5.79 FEET BELOW LAND SURFACE DATUM AUG 25, 1997.
LOWEST WATER LEVEL 16.39 FEET BELOW LAND SURFACE DATUM APR 18, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	7.47	DEC 15	9.27	FEB 14	14.10	APR 18	16.39	JUN 20	11.50	AUG 15	10.55
NOV 17	9.15	JAN 25	10.98	MAR 14	14.80	MAY 16	13.77	JUL 18	10.15	SEP 12	10.75

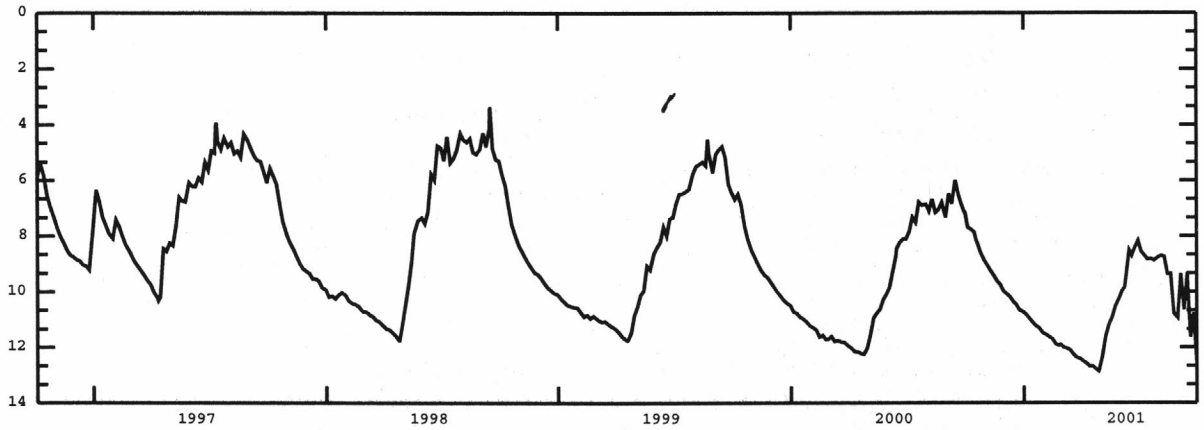
STATION NAME 04N 01W 35AAA1 SITE NUMBER 433852116244801

DUG UNUSED ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 24 IN, DEPTH 44 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°38'52", LONGITUDE 116°24'48". LSD 2,570.60 FT ABOVE SEA LEVEL. WATER LEVEL INFLUENCED BY LOCAL IRRIGATION. JUL 24, 1973, WELL HAD FILLED IN TO A DEPTH OF 32.2 FT. MEASUREMENTS MADE OCT 13, 1933 THROUGH MAR 01, 1947 AND NOV 04, 1947 THROUGH MAR 11, 1951 BY NAMPA-MERIDIAN IRRIGATION DISTRICT. RECORDER INSTALLED MAY 15, 1953. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.30 FT ABOVE LSD (SINCE MAY 15, 1953).

RECORDS AVAILABLE 1933 TO CURRENT YEAR.
HIGHEST WATER LEVEL 1.73 FEET BELOW LAND SURFACE DATUM JUL 10, 1974.
LOWEST WATER LEVEL 14.31 FEET BELOW LAND SURFACE DATUM APR 16, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 01	7.17	NOV 30	9.97	FEB 05	11.54	APR 10	12.58	JUN 09	9.83	AUG 15	9.36
05	7.69	DEC 05	10.07	10	11.62	15	12.69	16	8.52	20	9.35
10	7.76	10	10.17	15	11.70	20	12.69	20	8.70	25	10.78
15	7.86	15	10.34	20	11.88	25	12.79	25	8.41	31	10.93
18	8.14	20	10.45	25	11.94	29	12.86	30	8.17	SEP 05	9.36
20	8.25	25	10.65	28	11.90	30	12.80	JUL 05	8.56	10	10.64
25	8.59	31	10.72	MAR 05	12.01	MAY 05	12.30	10	8.70	15	9.34
31	8.88	JAN 05	10.82	10	12.04	10	11.60	15	8.84	20	11.63
NOV 05	9.06	10	10.96	15	12.10	15	11.18	20	8.82	25	10.76
10	9.25	15	11.10	20	12.25	20	10.92	25	8.88	30	12.59
15	9.42	20	11.22	25	12.36	25	10.54	31	8.77		
20	9.61	25	11.30	31	12.41	31	10.24	AUG 05	8.71		
25	9.74	31	11.48	APR 05	12.50	JUN 05	9.96	10	8.74		



STATION NAME 04N 01E 03DAD1 SITE NUMBER 434243116185001

DRILLED UNUSED ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 250 FT, CASED TO 143 FT, PERFORATED 100-140 FT. LATITUDE 43°42'43", LONGITUDE 116°18'50". LSD ABOUT 2,400 FT ABOVE SEA LEVEL. RECORDER INSTALLED AUG 07, 1989 TO JUL 15, 1996. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.00 FT ABOVE LSD (SINCE AUG 07, 1989).

RECORDS AVAILABLE 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 57.22 FEET BELOW LAND SURFACE DATUM FEB 01, 1990.
LOWEST WATER LEVEL 69.54 FEET BELOW LAND SURFACE DATUM SEP 07, 1995.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 20	66.20	DEC 12	65.33	FEB 15	65.12	APR 19	65.13	JUN 19	66.88	AUG 16	66.88
NOV 17	65.73	JAN 25	65.16	MAR 13	65.17	MAY 17	66.01	JUL 17	66.85	SEP 11	67.60

STATION NAME 04N 01E 10ACB2 SITE NUMBER 434206116192001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 289 FT, 6-IN CASING TO 289 FT. LATITUDE 43°42'06", LONGITUDE 116°19'20". LSD ABOUT 2,636 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 0.40 FT ABOVE LSD (SINCE OCT 10, 1986).

RECORDS AVAILABLE 1986, 1991 TO CURRENT YEAR.
HIGHEST WATER LEVEL 55.43 FEET BELOW LAND SURFACE DATUM OCT 10, 1986.
LOWEST WATER LEVEL 67.75 FEET BELOW LAND SURFACE DATUM APR 19, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 20	62.73	DEC 12	64.85	FEB 15	66.19	APR 19	67.75	JUN 19	64.64	AUG 16	63.10R
NOV 17	64.03	JAN 25	65.68	MAR 13	66.80	MAY 17	66.57	JUL 17	65.52	SEP 11	62.80R

STATION NAME 04N 01E 11BBB1 SITE NUMBER 434223116183901

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 203 FT, 6-IN CASING TO 135 FT, PERFORATED 120-130 FT, GRAVEL PACKED. LATITUDE 43°42'23", LONGITUDE 116°18'39". LSD ABOUT 2,690 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 0.30 FT ABOVE LSD (SINCE JUL 30, 1969).

RECORDS AVAILABLE 1969-1970, 1986, 1991, 1993 TO CURRENT YEAR.
HIGHEST WATER LEVEL 101.15 FEET BELOW LAND SURFACE DATUM OCT 14, 1986.
LOWEST WATER LEVEL 118.90 FEET BELOW LAND SURFACE DATUM AUG 16, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 20	109.87	DEC 12	113.07	FEB 15	108.07	APR 19	107.90	JUN 19	109.50R	AUG 16	118.90
NOV 17	110.32	JAN 25	107.61	MAR 13	107.51	MAY 17	108.90	JUL 17	112.52	SEP 13	116.14

STATION NAME 04N 01E 13BDDB1 SITE NUMBER 434109116170701

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 78 FT, 6-IN CASING TO 70 FT. LATITUDE 43°41'09", LONGITUDE 116°17'07". LSD ABOUT 2,620 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTH SIDE, 0.75 FT ABOVE LSD (SINCE NOV 03, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 19.39 FEET BELOW LAND SURFACE DATUM SEP 28, 2000.
LOWEST WATER LEVEL 27.30 FEET BELOW LAND SURFACE DATUM FEB 15, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 20	20.28	DEC 15	24.47	FEB 15	27.30	APR 19	25.55	JUN 19	21.24	AUG 16	21.40
NOV 16	23.75	JAN 25	25.50	MAR 13	26.45	MAY 17	22.01	JUL 17	20.00	SEP 13	31.55R

STATION NAME 04N 01E 14CCB1 SITE NUMBER 434048116184401

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 357 FT, 2-IN PIEZOMETER 0-345 FT, PERFORATED 300-310 FT, 330-340 FT, CEMENT GROUT 249-260 FT. LATITUDE 43°40'48", LONGITUDE 116°18'44". LSD ABOUT 2,582 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.55 FT ABOVE LSD (SINCE SEP 14, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL .15 FEET BELOW LAND SURFACE DATUM MAY 15, 2001.
LOWEST WATER LEVEL 4.21 FEET BELOW LAND SURFACE DATUM OCT 20, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 20	4.21	DEC 15	3.94	FEB 15	4.02	APR 19	3.45	JUN 19	1.72	AUG 16	.23
NOV 16	2.90	JAN 25	2.32	MAR 13	4.12	MAY 15	.15	JUL 17	1.43	SEP 13	.55

STATION NAME 04N 01E 14CCB2 SITE NUMBER 434048116184402

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 357 FT, 2-IN PIEZOMETER 0-295 FT, PERFORATED 270-290 FT, CEMENT GROUT 249-260 FT. LATITUDE 43°40'48", LONGITUDE 116°18'44". LSD ABOUT 2,582 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.35 FT ABOVE LSD (SINCE SEP 14, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL .37 FEET BELOW LAND SURFACE DATUM AUG 16, 2001.
LOWEST WATER LEVEL 4.38 FEET BELOW LAND SURFACE DATUM OCT 20, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 20	4.38	DEC 15	3.99	FEB 15	4.01	APR 19	3.47	JUN 19	1.77	AUG 16	.37
NOV 16	2.15	JAN 25	2.57	MAR 13	3.88	MAY 15	.39	JUL 17	1.47	SEP 13	.76

STATION NAME 04N 01E 14CCB3 SITE NUMBER 434048116184403

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 255 FT, 2-IN PIEZOMETER 0-255 FT, PERFORATED 210-220 FT, 240-250 FT, CEMENT GROUT 177-191 FT. LATITUDE 43°40'48", LONGITUDE 116°18'44". LSD ABOUT 2,582 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.50 FT ABOVE LSD (SINCE SEP 14, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL .55 FEET BELOW LAND SURFACE DATUM AUG 16, 2001.
LOWEST WATER LEVEL 4.54 FEET BELOW LAND SURFACE DATUM OCT 20, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 20	4.54	DEC 15	4.35	FEB 15	4.40	APR 19	3.81	JUN 19	2.12	AUG 16	.55
NOV 16	3.30	JAN 25	2.77	MAR 13	4.16	MAY 15	.69	JUL 17	1.78	SEP 13	.93

STATION NAME 04N 01E 14CCB4 SITE NUMBER 434048116184404

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 177 FT, 2-IN PIEZOMETER 0-177 FT, PERFORATED 130-140 FT, 150-170 FT. LATITUDE 43°40'48", LONGITUDE 116°18'44". LSD ABOUT 2,582 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.55 FT ABOVE LSD (SINCE SEP 14, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 2.54 FEET BELOW LAND SURFACE DATUM AUG 16, 2001.
LOWEST WATER LEVEL 6.98 FEET BELOW LAND SURFACE DATUM DEC 15, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 20	5.44	DEC 15	6.98	FEB 15	6.96	APR 19	5.63	JUN 19	4.47	AUG 16	2.54
NOV 16	5.53	JAN 25	5.40	MAR 13	6.01	MAY 15	3.05	JUL 17	3.82	SEP 13	3.11

STATION NAME 04N 01E 26CDD1 SITE NUMBER 433856116181501

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 105 FT, CASED TO 96 FT. LATITUDE 43°38'56", LONGITUDE 116°18'15". LSD ABOUT 2,660 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 1.40 FT ABOVE LSD (SINCE AUG 17, 1992).

RECORDS AVAILABLE 1992, 1996, 1998 TO CURRENT YEAR.
HIGHEST WATER LEVEL 24.45 FEET BELOW LAND SURFACE DATUM SEP 20, 1996.
LOWEST WATER LEVEL 33.00 FEET BELOW LAND SURFACE DATUM AUG 17, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	26.78	DEC 15	27.92	FEB 15	30.03	APR 19	31.39	JUN 26	31.04	AUG 16	30.88
NOV 17	27.39	JAN 30	29.75	MAR 15	30.62	MAY 17	31.61	JUL 19	30.34	SEP 13	30.90

STATION NAME 04N 01E 34ACBC1 SITE NUMBER 433837116192301

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 9 TO 6 IN, DEPTH 476 FT, 6-IN CASING TO 476 FT. LATITUDE 43°38'37", LONGITUDE 116°19'23". LSD ABOUT 2,644 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE EAST SIDE, 1.00 FT ABOVE LSD (SINCE JUL 19, 1996).

RECORDS AVAILABLE 1993 TO CURRENT YEAR.
HIGHEST WATER LEVEL 10.87 FEET BELOW LAND SURFACE DATUM OCT 29, 1998.
LOWEST WATER LEVEL 24.58 FEET BELOW LAND SURFACE DATUM JUL 19, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	13.23	DEC 15	12.68	FEB 15	16.74	APR 19	18.14	JUN 26	22.33	AUG 16	21.70
NOV 17	12.92	JAN 25	15.01	MAR 15	16.73	MAY 16	21.90	JUL 19	24.58	SEP 13	19.64

STATION NAME 04N 01E 35CCA1 SITE NUMBER 433813116183201

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 108 FT, CASED TO 90 FT. LATITUDE 43°38'13", LONGITUDE 116°18'32". LSD ABOUT 2,660 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 1.10 FT ABOVE LSD (SINCE JUL 05, 1989).

RECORDS AVAILABLE 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 8.27 FEET BELOW LAND SURFACE DATUM SEP 11, 1989.
LOWEST WATER LEVEL 25.53 FEET BELOW LAND SURFACE DATUM MAY 17, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	19.77	DEC 15	21.57	FEB 15	23.73	APR 19	25.41	JUN 26	25.10	AUG 16	24.60
NOV 17	20.53	JAN 25	24.32	MAR 15	25.20	MAY 17	25.53	JUL 19	24.05	SEP 13	22.83

STATION NAME 04N 02E 17CABC1 SITE NUMBER 434103116143601

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, ORIGINAL DEPTH 300 FT, JUN 1968, WELL DEEPENED TO 525 FT, 6-IN CASING 0-110 FT. LATITUDE 43°40'58", LONGITUDE 116°14'48". LSD ABOUT 3,020 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING AT LSD (SINCE NOV 03, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 164.99 FEET BELOW LAND SURFACE DATUM NOV 16, 2000.
LOWEST WATER LEVEL 195.28 FEET BELOW LAND SURFACE DATUM JUL 19, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 20	179.38	DEC 15	169.52	FEB 15	175.45	APR 19	171.11	JUN 19	184.14	AUG 16	179.20
NOV 16	164.99	JAN 30	167.97	MAR 15	168.40	MAY 16	185.82	JUL 19	195.28	SEP 13	176.38

STATION NAME 04N 02E 33ACAC1 SITE NUMBER 433836116132701

DRILLED DOMESTIC-IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6-IN, DEPTH 53 FT, CASED TO 53 FT, PERFORATED 47-52 FT. LATITUDE 43°38'36", LONGITUDE 116°13'10". LSD ABOUT 2,695 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 1.35 FT ABOVE LSD (SINCE AUG 06, 1992).

RECORDS AVAILABLE 1992, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 14.34 FEET BELOW LAND SURFACE DATUM SEP 23, 1996.
LOWEST WATER LEVEL 21.22 FEET BELOW LAND SURFACE DATUM MAY 17, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 20	15.92	DEC 15	17.90	FEB 15	18.97	APR 19	20.67	JUN 22	18.38	AUG 16	18.91
NOV 16	16.97	JAN 25	17.54	MAR 13	19.20	MAY 17	21.22	JUL 17	17.88	SEP 13	18.48

STATION NAME 03N 01W 16DDD1 SITE NUMBER 433528116271101

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 190 FT, CASED TO 183 FT, SCREENED 183-188 FT. LATITUDE 43°35'28", LONGITUDE 116°27'11". LSD ABOUT 2,677 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 0.80 FT ABOVE LSD (SINCE OCT 09, 1970).

RECORDS AVAILABLE 1969-1970, 1993, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 115.65 FEET BELOW LAND SURFACE DATUM OCT 09, 1970.
LOWEST WATER LEVEL 124.19 FEET BELOW LAND SURFACE DATUM MAR 23, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	120.38	JAN 25	122.28	APR 18	123.85	JUN 26	122.65	SEP 12	121.90
NOV 15	120.71	FEB 14	122.75	MAY 16	123.35	JUL 18	122.48		
DEC 14	121.28	MAR 14	123.44	JUN 20	122.70	AUG 15	122.30		

STATION NAME 03N 01E 01DAA2 SITE NUMBER 433736116162802

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 420 FT, 8-IN CASING TO 268 FT, 5-IN CASING 237-420 FT, SCREEN 405-410 FT, 412-417 FT. LATITUDE 43°37'36", LONGITUDE 116°16'28". LSD ABOUT 2,690 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTHWEST SIDE, 1.60 FT ABOVE LSD (SINCE AUG 18, 1992).

RECORDS AVAILABLE 1992 TO CURRENT YEAR.
HIGHEST WATER LEVEL 14.16 FEET BELOW LAND SURFACE DATUM JAN 24, 1994.
LOWEST WATER LEVEL 35.43 FEET BELOW LAND SURFACE DATUM JUN 24, 1993.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	23.00	DEC 15	20.77	FEB 15	19.47	APR 19	22.92	JUN 26	29.13	AUG 16	29.42
NOV 17	19.65	JAN 25	19.34	MAR 15	19.74	MAY 17	23.62	JUL 19	27.69	SEP 13	28.07

STATION NAME 03N 01E 15CBD1 SITE NUMBER 433544116194601

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 90 FT, CASED TO 85 FT, SCREENED 85-90 FT. LATITUDE 43°35'44", LONGITUDE 116°19'46". LSD ABOUT 2,680 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE AUG 04, 1992).

RECORDS AVAILABLE 1992, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 21.07 FEET BELOW LAND SURFACE DATUM SEP 19, 1996.
LOWEST WATER LEVEL 35.23 FEET BELOW LAND SURFACE DATUM APR 19, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	26.38	DEC 14	29.87	FEB 15	33.02	APR 19	35.23	JUN 26	33.75	AUG 14	31.30
NOV 16	28.93	JAN 30	32.30	MAR 15	34.13	MAY 17	33.10	JUL 19	32.53	SEP 13	29.90

STATION NAME 03N 01E 15CDA1 SITE NUMBER 433537116192501

DRILLED PUBLIC SUPPLY ARTESIAN WELL IS SEDIMENTS FOF QUATERNARY AGE, DIAM 12 TO 10 IN, DEPTH 335 FT, 12-IN CASING TO 301 FT, SCREENED 301-335 FT. LATITUDE 43°35'37", LONGITUDE 116°19'25". LSD ABOUT 2,684 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF ACCESS HOLE IN WELL SEAL, 1.37 FT ABOVE LSD (SINCE MAR 21, 2000).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 11.50 FEET BELOW LAND SURFACE DATUM DEC 17, 1996.
LOWEST WATER LEVEL 38.11 FEET BELOW LAND SURFACE DATUM JUL 14, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	23.61	DEC 14	23.76	FEB 15	26.27	APR 19	28.86	JUN 26	33.15	AUG 16	33.30
NOV 16	23.16	JAN 30	25.65	MAR 15	28.72	MAY 17	32.09	JUL 19	33.23	SEP 13	31.81

STATION NAME 03N 01E 16BCA1 SITE NUMBER 433605116210001

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 15 TO 12 IN, DEPTH 902 FT, 14-IN CASING TO 40 FT, 8-IN CASING 0-792 FT, 817-857 FT, 877-887 FT, SCREENED 792-812 FT, 857-877 FT. LATITUDE 43°36'05", LONGITUDE 116°21'00". LSD ABOUT 2,660 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 2-IN ACCESS PIPE IN WELL CAP, 1.95 FT ABOVE LSD (SINCE DEC 01, 1998).

RECORDS AVAILABLE 1998 TO CURRENT YEAR.
HIGHEST WATER LEVEL +.01 FEET ABOVE LAND SURFACE DATUM NOV 16, 1999.
LOWEST WATER LEVEL 19.70 FEET BELOW LAND SURFACE DATUM JUL 11, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	1.07	DEC 12	1.18	FEB 13	3.45	APR 17	5.59	JUN 19	7.35	SEP 11	7.59
NOV 14	.59	JAN 23	2.81	MAR 13	4.54	MAY 15	9.57	JUL 17	7.80		

STATION NAME 03N 01E 23DDD1 SITE NUMBER 433433116173801

DRILLED OBSERVATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 3 IN, DEPTH 37.7 FT, 3-IN CASING TO 5 FT, 1 1/4-IN CASING 0-40 FT, PERFORATED 25-40 FT. LATITUDE 43°34'33", LONGITUDE 116°17'38". LSD 2,724.72 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF 6-IN CASING EAST SIDE, 0.75 FT ABOVE LSD (SINCE JUN 30, 1990).

RECORDS AVAILABLE 1977-1984, 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 4.36 FEET BELOW LAND SURFACE DATUM OCT 09, 1984.
LOWEST WATER LEVEL 31.00 FEET BELOW LAND SURFACE DATUM APR 20, 1993.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	12.04	DEC 14	15.70	FEB 15	20.77	APR 19	25.68	JUN 26	27.11	AUG 16	21.31
NOV 16	13.98	JAN 26	19.14	MAR 15	23.05	MAY 17	26.92	JUL 19	25.19	SEP 13	18.40

STATION NAME 03N 01E 36DDB1 SITE NUMBER 433256116163301

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 152 FT, 6-IN CASING TO 146 FT, 5-IN CASING 142-147 FT, SCREENED 147-152 FT. LATITUDE 43°32'56", LONGITUDE 116°16'33". LSD ABOUT 2,810 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTHEAST SIDE, 1.00 FT ABOVE LSD (SINCE NOV 03, 1989).

RECORDS AVAILABLE 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 84.40 FEET BELOW LAND SURFACE DATUM SEP 19, 1996.
LOWEST WATER LEVEL 105.04 FEET BELOW LAND SURFACE DATUM APR 16, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	87.77	DEC 14	94.92	FEB 16	101.58	APR 19	103.90	JUN 26	94.59	AUG 16	92.50
NOV 16	91.75	JAN 26	98.81	MAR 15	102.15	MAY 17	97.72	JUL 19	93.65	SEP 20	91.59

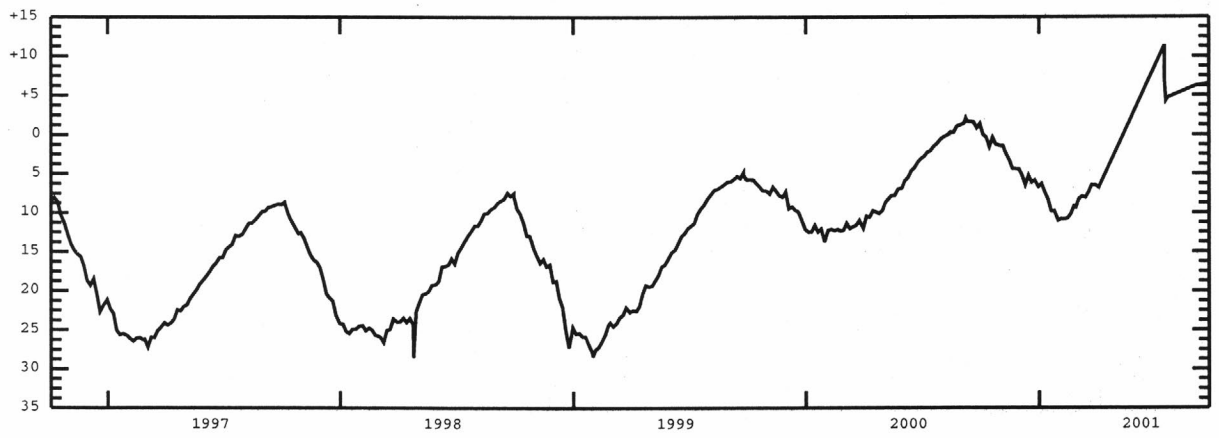
STATION NAME 03N 02E 11BABD1 SITE NUMBER 433705116110601

FORMERLY STATION NAME 03N 02E 11BAB1. DRILLED OBSERVATION GEOTHERMAL ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 7 TO 3 1/4 IN, DEPTH 1,222 FT, 7-IN CASING TO 610 FT, 3 1/4-IN CASING 610-1,222 FT, PERFORATED 781-802 FT, 1,012-1,054 FT, 1,059-1,080 FT, 1,117-1,138 FT, 1,201-1,222 FT. LATITUDE 43°37'05", LONGITUDE 116°11'06". LSD 2,742.7 FT ABOVE SEA LEVEL. RECORDER INSTALLED JAN 29, 1986. MP NO. 3 EDGE OF 7-IN CASING EAST SIDE, 2.75 FT ABOVE LSD (SINCE JAN 29, 1986).

RECORDS AVAILABLE 1986 TO CURRENT YEAR.
HIGHEST WATER LEVEL +11.21 FEET ABOVE LAND SURFACE DATUM JUL 17, 18, 2001.
LOWEST WATER LEVEL 36.36 FEET ABOVE LAND SURFACE DATUM FEB 13, 1989.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, (READINGS ABOVE LAND SURFACE INDICATED BY "+")
WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001.

OCT 05	+.02	NOV 15	3.25	DEC 25	5.83	FEB 05	10.80	MAR 15	8.04	JUL 20	+4.31
10	.33	20	4.36	31	6.69	10	10.84	20	7.35	23	+4.71
15	1.56	25	4.39	JAN 05	6.30	15	10.74	25	6.43	SEP 05	+6.21
20	.36	30	4.42	10	7.38	20	10.21	31	6.48	13	+6.31
25	1.21	DEC 05	5.22	15	8.28	25	9.18	APR 05	6.76	20	+6.41
31	1.38	10	6.45	20	9.79	28	9.31	JUL 17	+11.21	26	+6.51
NOV 05	1.39	15	5.25	25	9.78	MAR 05	8.20	18	+11.21		
10	2.43	20	6.10	31	11.02	10	7.89	18	+6.91		



STATION NAME 03N 02E 11DDD1 SITE NUMBER 433619116103001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 68 FT, CASED TO 68 FT. LATITUDE 43°36'19", LONGITUDE 116°10'30". LSD ABOUT 2,718 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 1.40 FT ABOVE LSD (SINCE AUG 17, 1992).

RECORDS AVAILABLE 1992, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 16.98 FEET BELOW LAND SURFACE DATUM JUN 24, 1998.
LOWEST WATER LEVEL 28.40 FEET BELOW LAND SURFACE DATUM AUG 17, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	20.22	DEC 15	21.48	FEB 15	21.63	APR 19	21.50	JUN 22	26.05	AUG 16	26.63
NOV 16	21.02	JAN 25	21.49	MAR 15	21.45	MAY 17	20.10	JUL 19	20.88	SEP 13	20.89

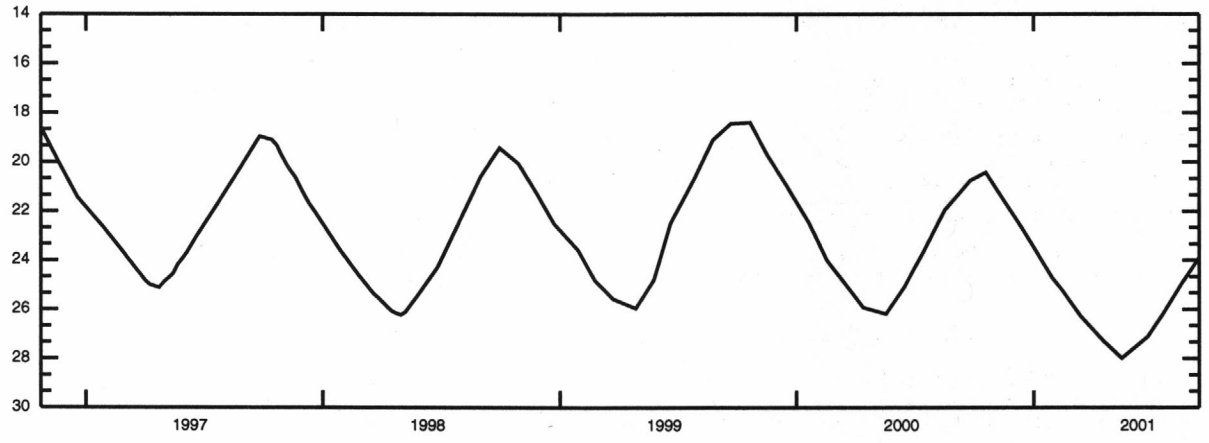
STATION NAME 03N 02E 21BCC1 SITE NUMBER 433502116135201

DRILLED UNUSED ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 58 FT, CASING DEPTH AND PERFORATED INTERVAL NOT AVAILABLE. LATITUDE 43°35'02", LONGITUDE 116°13'52". LSD 2,751.09 FT ABOVE SEA LEVEL. MP NO. 4 EDGE OF 6-IN VALVE BOX EAST SIDE AT LSD (SINCE AUG 24, 1995).

RECORDS AVAILABLE 1947 TO CURRENT YEAR.
HIGHEST WATER LEVEL .34 FEET BELOW LAND SURFACE DATUM AUG 18, 1955.
LOWEST WATER LEVEL 27.99 FEET BELOW LAND SURFACE DATUM MAY 17, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	20.42	DEC 14	22.70	FEB 15	25.25	APR 19	27.30	JUN 26	27.12	AUG 16	24.99
NOV 16	21.56	JAN 30	24.74	MAR 15	26.29	MAY 17	27.99	JUL 19	26.20	SEP 13	23.89



STATION NAME 03N 03E 19DBD1 SITE NUMBER 433449116082001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 80 FT, 6-IN CASING TO 75 FT. LATITUDE 43°34'49", LONGITUDE 116°08'20". LSD ABOUT 2,800 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.50 FT ABOVE LSD (SINCE MAR 20, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 48.82 FEET BELOW LAND SURFACE DATUM JUL 19, 1996.
LOWEST WATER LEVEL 52.44 FEET BELOW LAND SURFACE DATUM NOV 19, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	50.24	DEC 15	50.78	FEB 15	50.89	APR 19	51.07	JUN 22	50.49	AUG 14	50.95
NOV 16	50.62	JAN 25	50.84	MAR 15	51.00	MAY 17	50.84	JUL 19	50.60	SEP 13	50.79

STATION NAME 03N 03E 30DDAA1 SITE NUMBER 433351116380301

DRILLED UNUSED ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DEPTH 668 FT, 8 IN CASING TO 117.5 FT, 6-IN CASING 0-246 FT. LATITUDE 43°33'51", LONGITUDE 116°08'03". LSD ABOUT 2,800 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 11, 1988 TO APR 07, 1994. MP NO. 1 EDGE OF 6-IN CASING NORTH SIDE, 1.30 FT ABOVE LSD (SINCE FEB 05, 1988).

RECORDS AVAILABLE 1988 TO CURRENT YEAR.
HIGHEST WATER LEVEL 143.37 FEET BELOW LAND SURFACE DATUM MAR 11, 1990.
LOWEST WATER LEVEL 188.53 FEET BELOW LAND SURFACE DATUM AUG 21, 1995.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	173.41	DEC 11	165.17	FEB 13	161.99	APR 20	162.31	JUN 18	170.13	AUG 13	173.61
NOV 15	167.38	JAN 23	162.94	MAR 14	161.01	MAY 17	165.98	JUL 17	172.39	SEP 10	174.03

STATION NAME 03N 03E 32BBA1 SITE NUMBER 433337116075001

DRILLED UNUSED ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 280 FT, 8-IN CASING TO 233 FT, 6-IN CASING 212-280 FT, PERFORATED 231.5-242 FT. LATITUDE 43°33'35", LONGITUDE 116°07'50". LSD ABOUT 2,823 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTHEAST SIDE, 0.85 FT ABOVE LSD (SINCE MAR 26, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 136.24 FEET BELOW LAND SURFACE DATUM APR 10, 2000.
LOWEST WATER LEVEL 169.14 FEET BELOW LAND SURFACE DATUM AUG 19, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	138.92	DEC 11	135.44	FEB 13	132.25	APR 20	131.64	JUN 18	135.25	AUG 13	138.19
NOV 15	137.02	JAN 23	132.99	MAR 14	131.59	MAY 17	132.77	JUL 17	137.10	SEP 10	139.19

STATION NAME 02N 01W 11ADA1 SITE NUMBER 433143116245101

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 16 IN, REPORTED 190 FT, 16-IN CASING TO 120 FT, PERFORATED 60-116 FT. LATITUDE 43°31'43", LONGITUDE 116°24'51". LSD ABOUT 2,685 FT ABOVE SEA LEVEL. MP NO. 2 BOTTOM EDGE OF HOLE IN PUMPBASE SOUTH SIDE, 0.60 FT ABOVE LSD (SINCE DEC 04, 1968).

RECORDS AVAILABLE 1966-1983, 1991 TO CURRENT YEAR.
HIGHEST WATER LEVEL 62.25 FEET BELOW LAND SURFACE DATUM SEP 28, 1982.
LOWEST WATER LEVEL 98.69 FEET BELOW LAND SURFACE DATUM MAY 19, 1978.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	74.76	DEC 14	78.70	FEB 14	83.50	APR 18	87.17	JUN 20	P	AUG 15	86.96
NOV 15	77.50	JAN 26	82.10	MAR 14	85.36	MAY 16	P	JUL 18	97.06	SEP 12	86.52

STATION NAME 02N 01E 31DDC1 SITE NUMBER 432734116223901

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 9 TO 6 IN, DEPTH 248 FT, 6-IN CASING TO 225 FT. LATITUDE 43°27'34", LONGITUDE 116°22'39". LSD ABOUT 2,748 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 1.20 FT ABOVE LSD (SINCE MAR 27, 1996).

RECORDS AVAILABLE 1976, 1980, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 129.96 FEET BELOW LAND SURFACE DATUM SEP 28, 1976.
LOWEST WATER LEVEL 147.19 FEET BELOW LAND SURFACE DATUM MAY 26, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 16	137.55	DEC 14	138.30	FEB 12	139.35R	APR 19	140.05R	JUN 18	142.10R	AUG 13	141.47
NOV 14	137.58	JAN 22	139.15R	MAR 13	139.68	MAY 17	141.01	JUL 17	142.06R	SEP 10	140.90R

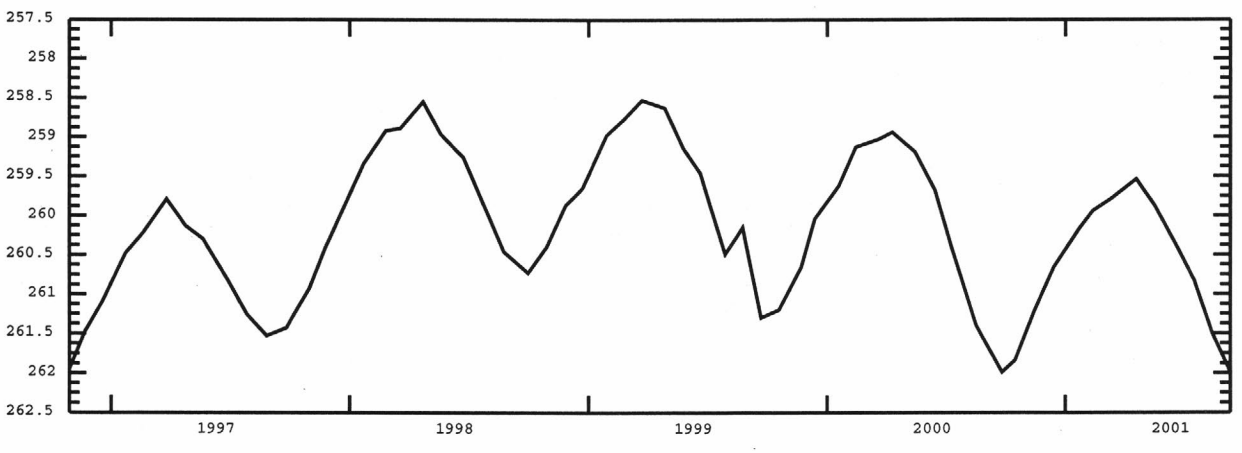
STATION NAME 02N 01E 36BBB1 SITE NUMBER 432825116173501

DRILLED UNUSED STOCK WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 305 FT, CASED TO 300 FT. LATITUDE 43°28'25", LONGITUDE 116°17'35". LSD ABOUT 2,867 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 6-IN THREAD PROTECTOR NORTHEAST SIDE, 1.20 FT ABOVE LSD (SINCE NOV 28, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 249.83 FEET BELOW LAND SURFACE DATUM JAN 31, 1974.
LOWEST WATER LEVEL 263.10 FEET BELOW LAND SURFACE DATUM SEP 27, 1993.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 16	261.84	DEC 14	260.66	FEB 12	259.94	APR 19	259.54	JUN 18	260.36	AUG 13	261.49
NOV 14	261.22	JAN 22	260.17	MAR 13	259.78	MAY 17	259.87	JUL 17	260.83	SEP 10	261.99



STATION NAME 02N 02E 07CBC1 SITE NUMBER 433119116161601

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 460 FT, 6-IN CASING TO 448 FT, SCREENED 450-460 FT. LATITUDE 43°33'19", LONGITUDE 116°16'16". LSD ABOUT 2,920 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.60 FT ABOVE LSD (SINCE MAR 18, 1996).

RECORDS AVAILABLE 1997 TO CURRENT YEAR
HIGHEST WATER LEVEL 274.40 FEET BELOW LAND SURFACE DATUM OCT 15, 1997.
LOWEST WATER LEVEL 308.06 FEET BELOW LAND SURFACE DATUM JUL 13, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	278.78	DEC 14	282.30	FEB 16	277.42	APR 19	280.55	JUN 26	291.09	AUG 16	307.96
NOV 16	278.23	JAN 26	278.71	MAR 15	282.68	MAY 17	289.05	JUL 19	301.58		

STATION NAME 02N 02E 34CCD1 SITE NUMBER 432732116123401

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 504 FT, 8-IN CASING TO 487 FT, 7-IN CASING 484-504 FT, PERFORATED 484-504 FT. LATITUDE 43°27'32", LONGITUDE 116°12'34". LSD ABOUT 3,045 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.20 FT ABOVE LSD (SINCE MAY 06, 1976).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 442.14 FEET BELOW LAND SURFACE DATUM MAY 06, 1976.
LOWEST WATER LEVEL 454.99 FEET BELOW LAND SURFACE DATUM AUG 25, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 16	448.66	DEC 14	447.94	FEB 12	447.95	APR 19	447.64	JUN 18	447.77	AUG 13	447.73
NOV 15	447.95	JAN 22	447.92	MAR 13	447.82	MAY 17	447.62	JUL 17	447.95	SEP 10	447.67

STATION NAME 02N 03E 06BCC2 SITE NUMBER 433221116090702

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 10 TO 8 IN, DEPTH 460 FT, 8-IN CASING TO 435 FT, PERFORATED 335-435 FT. LATITUDE 43°32'21", LONGITUDE 116°09'07". LSD ABOUT 3,015 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING WEST SIDE, 1.70 FT ABOVE LSD (SINCE MAR 20, 1980).

RECORDS AVAILABLE 1980, 1996 TO CURRENT YEAR
HIGHEST WATER LEVEL 341.31 FEET BELOW LAND SURFACE DATUM MAR 20, 1980.
LOWEST WATER LEVEL 414.69 FEET BELOW LAND SURFACE DATUM JUN 04, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	409.12	DEC 11	408.27	FEB 12	408.02	APR 20	407.47	JUN 18	411.22	AUG 14	O
NOV 15	408.28	JAN 22	410.02	MAR 13	408.36	MAY 17	407.89	JUL 17	410.89	SEP 10	O

STATION NAME 02N 03E 09BAA2 SITE NUMBER 433150116061802

DRILLED UNUSED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 9 TO 6 IN, DEPTH 522 FT, 6-IN CASING TO 388 FT, 5-IN CASING 0-500 FT, 4.5-IN PERFORATED PVC LINER 499-519 FT. LATITUDE 43°31'50", LONGITUDE 116°16'18". LSD ABOUT 3,140 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 1 1/2-IN PIPE COUPLING, 1.00 FT ABOVE LSD (SINCE MAY 09, 1997).

RECORDS AVAILABLE 1997 TO CURRENT YEAR.
HIGHEST WATER LEVEL 482.19 FEET BELOW LAND SURFACE DATUM MAY 09, 1997.
LOWEST WATER LEVEL 488.81 FEET BELOW LAND SURFACE DATUM AUG 13, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	487.94	DEC 16	487.56	FEB 13	487.50	APR 20	487.25	JUN 18	488.13	AUG 13	488.81
NOV 15	487.59	JAN 23	487.52	MAR 13	487.74	MAY 17	487.73	JUL 17	488.08	SEP 10	488.73

STATION NAME 01N 01W 30AAD1 SITE NUMBER 432351116293701

DRILLED IRRIGATION WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 24 TO 20 IN, DEPTH 360 FT, 20-IN CASING TO 21 FT. LATITUDE 43°23'51", LONGITUDE 116°29'37". LSD ABOUT 2,800 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM EDGE OF 1 1/4-IN ACCESS PIPE NORTH SIDE, 1.80 FT ABOVE LSD (SINCE APR 06, 1976).

RECORDS AVAILABLE 1976, 1997 TO CURRENT YEAR.
HIGHEST WATER LEVEL 249.07 FEET BELOW LAND SURFACE DATUM APR 06, 1976.
LOWEST WATER LEVEL 267.64 FEET BELOW LAND SURFACE DATUM OCT 17, 1997.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	264.82	DEC 14	260.30	FEB 14	257.92	APR 18	256.46	JUN 20	P	AUG 15	266.54
NOV 15	262.20	JAN 26	258.55	MAR 14	257.34	MAY 16	P	JUL 18	266.45	SEP 12	P

STATION NAME 01N 01E 16ACC1 SITE NUMBER 432525116203301

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 386 FT, 6-IN CASING TO 38.5 FT. LATITUDE 43°25'25", LONGITUDE 116°20'33". LSD ABOUT 2,820 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 1.65 FT ABOVE LSD (SINCE APR 05, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 228.41 FEET BELOW LAND SURFACE DATUM MAR 24, 1999.
LOWEST WATER LEVEL 237.73 FEET BELOW LAND SURFACE DATUM SEP 22, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 16	235.68	DEC 14	230.84	FEB 12	230.53	APR 19	230.41	JUN 18	232.16	AUG 13	235.10
NOV 14	231.12	JAN 22	230.70	MAR 13	230.37	MAY 17	231.68	JUL 17	234.64	SEP 10	233.71

STATION NAME 01N 01E 33AAD1 SITE NUMBER 432301116200401

DRILLED IRRIGATION WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 20 TO 12 IN, DEPTH 542 FT, 20-IN CASING TO 19 FT. LATITUDE 43°23'01", LONGITUDE 116°20'04". LSD ABOUT 2,865 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE INSIDE PUMPBASE NORTH SIDE, 1.40 FT ABOVE LSD (SINCE APR 19, 2001).

RECORDS AVAILABLE 1997 TO CURRENT YEAR.
HIGHEST WATER LEVEL 276.87 FEET BELOW LAND SURFACE DATUM MAR 24, 1999.
LOWEST WATER LEVEL 280.99 FEET BELOW LAND SURFACE DATUM AUG 17, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 16	280.04	DEC 14	278.55	FEB 12	277.84	APR 19	277.30	JUN 18	P	AUG 13	P
NOV 15	279.11	JAN 22	278.34	MAR 13	277.72	MAY 17	P	JUL 17	P	SEP 10	P

STATION NAME 01N 02E 06BAA1 SITE NUMBER 432732116155501

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 36-20-16 IN, DEPTH 535 FT, 20-IN CASING TO 15 FT, 16-IN CASING 0-445 FT, 10-IN CASING 438-448 FT, SCREENED 448-510 FT. LATITUDE 43°27'32", LONGITUDE 116°15'55". LSD ABOUT 2,910 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE IN PUMPBASE, 1.25 FT ABOVE LSD (SINCE JAN 18, 2000).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 309.51 FEET BELOW LAND SURFACE DATUM FEB 24, 1999.
LOWEST WATER LEVEL 314.73 FEET BELOW LAND SURFACE DATUM JAN 22, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 16	312.48	DEC 14	313.02	FEB 12	311.02	APR 19	310.17	JUN 18	P	AUG 13	P
NOV 15	312.08	JAN 22	314.73	MAR 13	310.55	MAY 17	311.12	JUL 17	313.28	SEP 10	313.60

STATION NAME 01N 04E 28CAC1 SITE NUMBER 432326115591601

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 28-26-18 IN, DEPTH 763 FT, 26-IN CASING TO 72 FT, 16-IN CASING 0-763 FT, SCREENED 500-510 FT, 608-688 FT, 712-752 FT. LATITUDE 43°23'26", LONGITUDE 115°59'16". LSD ABOUT 3,360 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF BREATHER PIPE ACCESS PORT, 1.22 FT ABOVE LSD (SINCE APR 10, 2000).

RECORDS AVAILABLE 1980-1982, 1996, 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 389.88 FEET BELOW LAND SURFACE DATUM MAR 16, 1996.
LOWEST WATER LEVEL 407.72 FEET BELOW LAND SURFACE DATUM NOV 06, 1980.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 16	P	DEC 11	392.17	FEB 13	390.60	APR 19	391.30	JUN 19	391.24	AUG 13	391.07
NOV 15	398.22	JAN 23	391.96	MAR 14	391.47	MAY 18	391.28	JUL 17	391.04	SEP 10	390.93

STATION NAME 01S 01W 30BAB1 SITE NUMBER 431851116301101

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 300 FT, 6-IN CASING TO 198 FT. LATITUDE 43°18'51", LONGITUDE 116°30'11". LSD ABOUT 2,512 FT ABOVE SEA LEVEL. JAN 19, 2000, WELL CAVED IN AND WAS RECASED. MP NO. 1 TOP OF ACCESS HOLE EAST SIDE, 2.75 FT ABOVE LSD (SINCE JUN 24, 1992).

RECORDS AVAILABLE 1992, 1997 TO CURRENT YEAR
HIGHEST WATER LEVEL 164.01 FEET BELOW LAND SURFACE DATUM JUL 18, 2001.
LOWEST WATER LEVEL 265.82 FEET BELOW LAND SURFACE DATUM FEB 16, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	166.41	DEC 14	169.05	FEB 14	176.23	APR 18	175.63	JUN 20	170.90	AUG 15	175.72
NOV 15	165.99	JAN 26	173.58	MAR 14	177.25	MAY 16	182.10	JUL 18	164.01	SEP 12	176.65

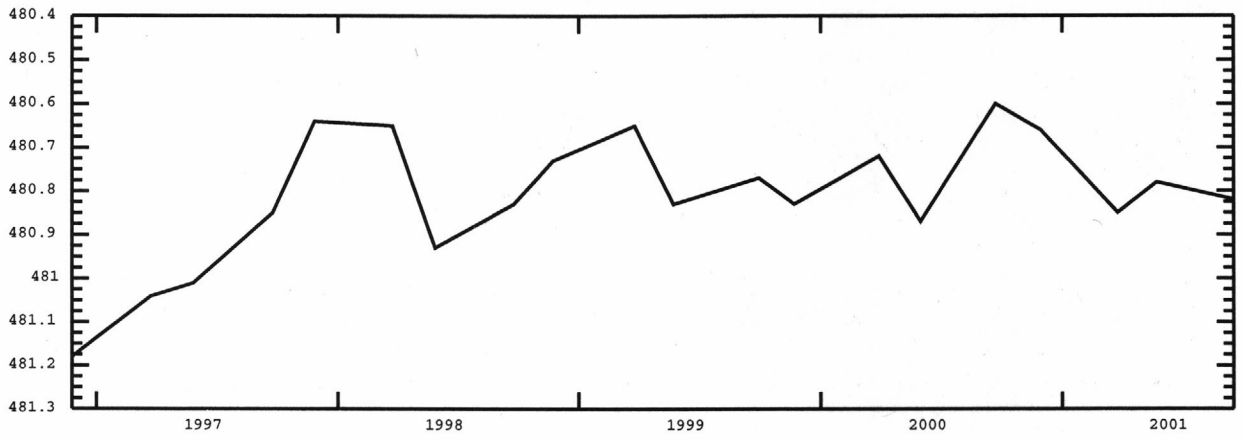
STATION NAME 01S 04E 30AAC1 SITE NUMBER 431839116010701

DRILLED UNUSED WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 750 FT, CASED TO 550 FT. LATITUDE 43°18'39", LONGITUDE 116°01'07". LSD ABOUT 3,150 FT ABOVE SEA LEVEL. MAY 24, 1967, WELL HAD FILLED IN TO A DEPTH OF 636.8 FT. RECORDER INSTALLED JUN 05, 1967 TO NOV 23, 1971. MP NO. 2 EDGE OF CASING EAST SIDE, 3.00 FT ABOVE LSD (SINCE JUN 01, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 480.64 FEET BELOW LAND SURFACE DATUM NOV 26, 1997.
LOWEST WATER LEVEL 487.98 FEET BELOW LAND SURFACE DATUM OCT 15, 1967.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 29 480.66 MAR 26 480.85 MAY 24 480.78 SEP 18 480.82



STATION NAME 02S 01E 23ADD1 SITE NUMBER 431402116173701

DRILLED UNUSED IRRIGATION WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 20 IN, DEPTH 816 FT, 16-IN CASING TO 816 FT, PERFORATED 615-816 FT. LATITUDE 43°14'02", LONGITUDE 116°17'37". LSD ABOUT 3,155 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 16-IN CASING SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE APR 14, 1976).

RECORDS AVAILABLE 1976, 1980, 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 691.55 FEET BELOW LAND SURFACE DATUM FEB 12, 2001.
LOWEST WATER LEVEL 697.41 FEET BELOW LAND SURFACE DATUM AUG 26, 1976.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 16	692.10	DEC 15	691.85	FEB 12	691.55	APR 19	691.58	JUN 18	692.04	AUG 13	691.80
NOV 14	691.73	JAN 22	692.00	MAR 13	691.88	MAY 18	691.84	JUL 17	691.68	SEP 10	691.79

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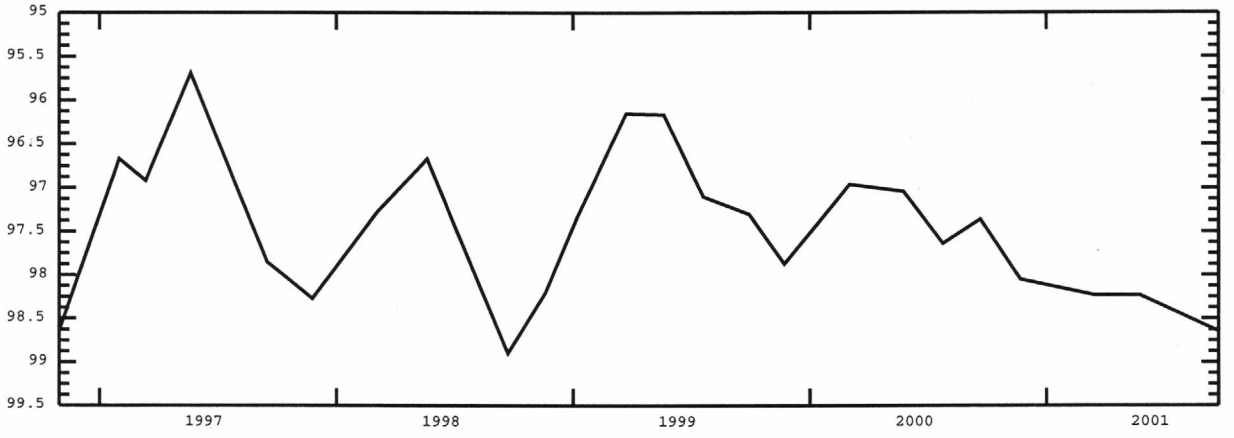
STATION NAME 17N 01W 15AAC1 SITE NUMBER 444854116262301

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF TERTIARY AGE, DIAM 6 IN, REPORTED DEPTH 131 FT, CASED TO 109 FT. LATITUDE 44°48'54", LONGITUDE 116°26'23". LSD ABOUT 3,115 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.50 FT ABOVE LSD (SINCE APR 04, 1974).

RECORDS AVAILABLE 1974 TO CURRENT YEAR.
HIGHEST WATER LEVEL 95.07 FEET BELOW LAND SURFACE DATUM MAY 15, 1974.
LOWEST WATER LEVEL 100.33 FEET BELOW LAND SURFACE DATUM DEC 06, 1978.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 22 98.05 MAR 16 98.23 MAY 25 98.23 SEP 24 98.65



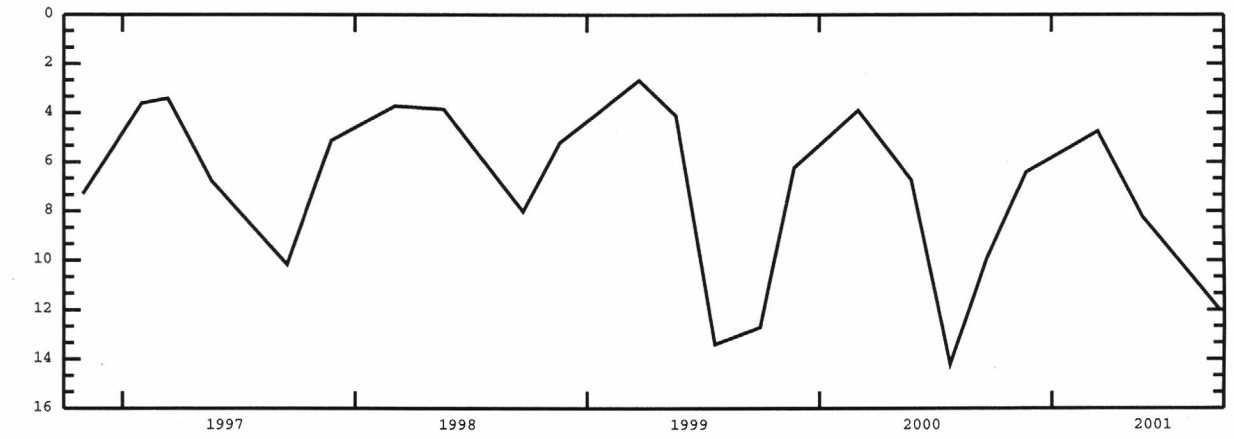
STATION NAME 16N 01W 03DDD2 SITE NUMBER 444447116255701

DRILLED UNUSED WATER-TABLE WELL IN SEMICONSOLIDATED GRAVEL OF QUATERNARY AGE, DIAM 12 IN, DEPTH 78.6 FT, CASED TO 7 FT, PERFORATED 2-6 FT. LATITUDE 44°44'47", LONGITUDE 116°25'57". LSD ABOUT 2,985 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE IN STEEL PLATE, 0.85 FT ABOVE LSD (SINCE MAR 24, 1988).

RECORDS AVAILABLE 1961 TO CURRENT YEAR.
HIGHEST WATER LEVEL .25 FEET BELOW LAND SURFACE DATUM MAR 06, 1979.
LOWEST WATER LEVEL 17.80 FEET BELOW LAND SURFACE DATUM JUL 16, 1985.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 22 6.42 MAR 16 4.75 MAY 25 8.23 SEP 24 12.04



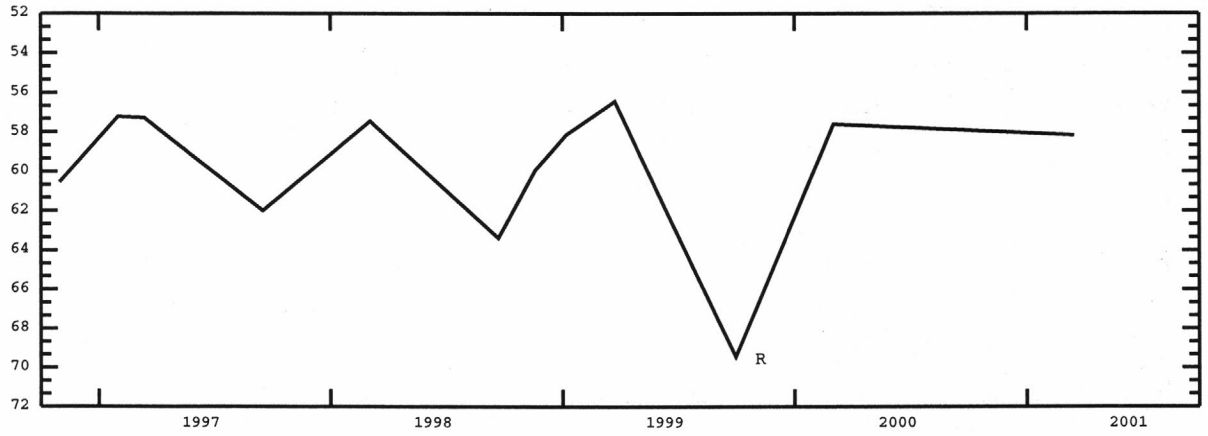
STATION NAME 16N 01W 22BAA1 SITE NUMBER 444256116263401

DRILLED IRRIGATION WATER-TABLE WELL IN COLUMBIA RIVER GROUP, DIAM 10 IN, DEPTH 390 FT, CASED TO 28 FT. LATITUDE 44°42'56", LONGITUDE 116°26'34". LSD ABOUT 2,950 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTH SIDE, 0.40 FT ABOVE LSD (SINCE JUL 09, 1974).

RECORDS AVAILABLE 1974 TO CURRENT YEAR.
HIGHEST WATER LEVEL 56.33 FEET BELOW LAND SURFACE DATUM APR 30, 1976.
LOWEST WATER LEVEL 65.18 FEET BELOW LAND SURFACE DATUM SEP 17, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 16 58.16 SEP 24 P SEP 27 P



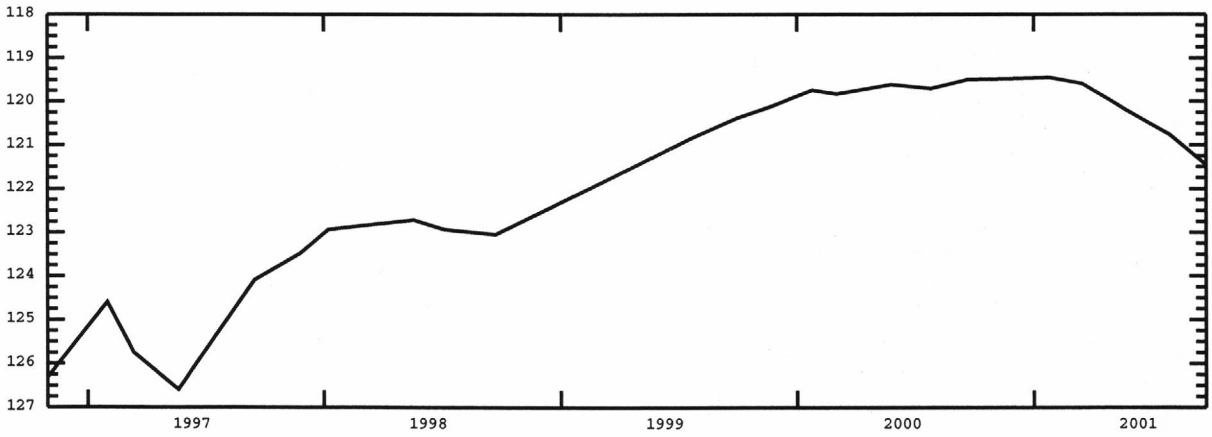
STATION NAME 15N 01W 22BAD1 SITE NUMBER 443736116263701

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF TERTIARY AGE, DIAM 8 IN, DEPTH 175 FT, CASED TO 84 FT. LATITUDE 44°37'36", LONGITUDE 116°26'37". LSD ABOUT 3,260 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTHEAST SIDE, 0.50 FT ABOVE LSD (SINCE APR 17, 1975).

RECORDS AVAILABLE 1975 TO CURRENT YEAR.
HIGHEST WATER LEVEL 112.61 FEET BELOW LAND SURFACE DATUM APR 17, 1975.
LOWEST WATER LEVEL 130.08 FEET BELOW LAND SURFACE DATUM JUN 06, 1995.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 22 119.47 JAN 25 119.44 MAR 16 119.58 MAY 25 120.20 JUL 30 120.76 SEP 24 121.45



BOISE COUNTY

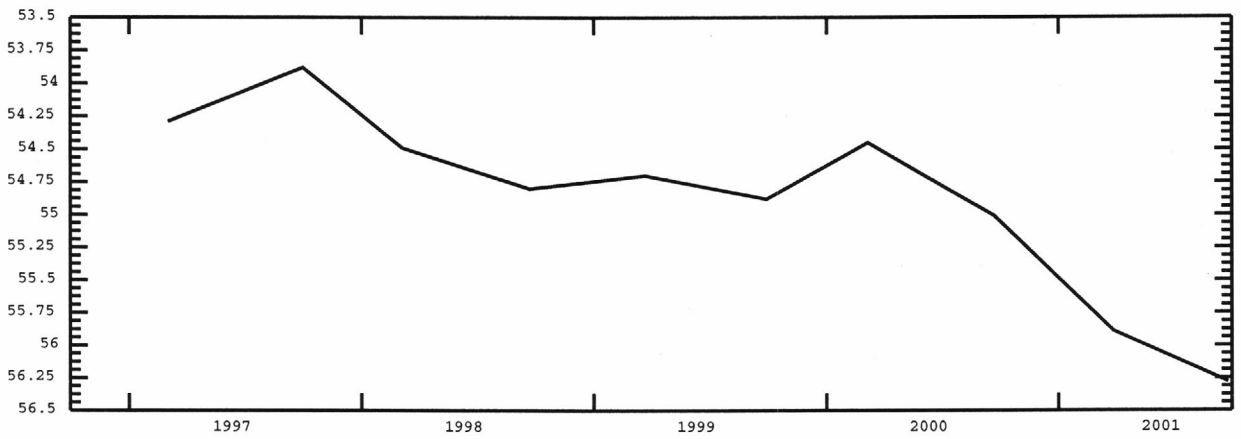
STATION NAME 09N 04E 22BDD1 SITE NUMBER 440602115580301

DRILLED DOMESTIC WATER-TABLE WELL IN COARSE SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 111 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 44°06'02", LONGITUDE 115°58'03". LSD ABOUT 3,100 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 0.80 FT ABOVE LSD (SINCE JUL 12, 1971).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 52.66 FEET BELOW LAND SURFACE DATUM JUL 18, 1984.
LOWEST WATER LEVEL 57.80 FEET BELOW LAND SURFACE DATUM JAN 22, 1968.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 28 55.89 SEP 24 56.28



BONNER COUNTY

STATION NAME 54N 05W 18AAA1 SITE NUMBER 480207117001401

DRILLED DOMESTIC WATER-TABLE WELL IN GLACIAL OUTWASH GRAVELS, DIAM 6 IN, DEPTH 146 FT, CASED TO 146 FT, PERFORATED 138-146 FT. LATITUDE 48°02'04", LONGITUDE 117°00'12". LSD ABOUT 2,280 FT ABOVE SEA LEVEL. MP NO. 2 BOTTOM OUTSIDE EDGE OF 3/4-IN ACCESS HOLE NORTHEAST SIDE, 1.00 FT ABOVE LSD (SINCE SEP 23, 1987).

RECORDS AVAILABLE 1977 TO CURRENT YEAR.
HIGHEST WATER LEVEL 89.77 FEET BELOW LAND SURFACE DATUM MAY 27, 1997.
LOWEST WATER LEVEL 128.24 FEET BELOW LAND SURFACE DATUM JAN 27, 1995.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 29 98.38 MAR 29 104.32 MAY 23 105.50 SEP 28 108.73



CANYON COUNTY

STATION NAME 06N 05W 30BAB1 SITE NUMBER 435007116591501

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 169 FT, CASED TO 135 FT. LATITUDE 43°50'07", LONGITUDE 116°59'15". LSD ABOUT 2,225 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM OF ACCESS HOLE IN PUMPBASE WEST SIDE, 1.00 FT ABOVE LSD (SINCE JAN 09, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 25.17 FEET BELOW LAND SURFACE DATUM SEP 10, 1968.
LOWEST WATER LEVEL 35.16 FEET BELOW LAND SURFACE DATUM MAY 27, 1969.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	26.97	DEC 12	30.22	FEB 13	30.29	APR 17	30.67	JUN 19	28.49	AUG 14	28.12
NOV 14	28.22	JAN 23	30.18	MAR 13	30.54	MAY 15	30.77	JUL 17	26.67	SEP 11	26.30

STATION NAME 05N 05W 04BCC1 SITE NUMBER 434759116570201

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 46 FT, CASED TO 45 FT. LATITUDE 43°47'59", LONGITUDE 116°57'02". LSD ABOUT 2,285 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTH SIDE, 1.11 FT ABOVE LSD (SINCE MAR 28, 1996).

RECORDS AVAILABLE 1994, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 10.94 FEET BELOW LAND SURFACE DATUM SEP 17, 1996.
LOWEST WATER LEVEL 15.88 FEET BELOW LAND SURFACE DATUM APR 30, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	13.11	DEC 12	14.32	FEB 13	15.25	APR 17	15.78	JUN 19	14.17	AUG 14	13.28
NOV 14	12.89	JAN 23	14.97	MAR 13	15.47	MAY 15	14.94	JUL 17	15.39	SEP 11	11.98

STATION NAME 05N 05W 04DCD1 SITE NUMBER 434733116561501

DRILLED PUBLIC SUPPLY ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 28 IN, DEPTH 505 FT, 16-IN CASING TO 220 FT, 8-IN CASING 220-485 FT, 8-IN SCREEN 245-255 FT, 268-273 FT, 364-374 FT, 454-459 FT, 472-477 FT, GRAVEL PACKED 65-220 FT. LATITUDE 43°47'33", LONGITUDE 116°56'15". LSD ABOUT 2,281 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF BREATHER PIPE EAST SIDE, 1.70 FT ABOVE LSD (SINCE MAR 21, 1996).

RECORDS AVAILABLE 1990, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 62.60 FEET BELOW LAND SURFACE DATUM FEB 15, 2000.
LOWEST WATER LEVEL 75.08 FEET BELOW LAND SURFACE DATUM JUL 11, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	64.90	DEC 12	64.19	FEB 13	63.56	APR 17	65.14	JUN 19	70.08	AUG 14	151.67R
NOV 14	64.73	JAN 23	64.84	MAR 13	62.82	MAY 15	105.40R	JUL 17	150.40R	SEP 11	68.58

STATION NAME 05N 05W 18CAC1 SITE NUMBER 434603116590901

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 250 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°46'03", LONGITUDE 116°59'09". LSD ABOUT 2,225 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTH SIDE, 1.50 FT ABOVE LSD (SINCE JAN 05, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 7.50 FEET BELOW LAND SURFACE DATUM SEP 07, 1973.
LOWEST WATER LEVEL 14.88 FEET BELOW LAND SURFACE DATUM SEP 26, 1991.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 13	13.20	SEP 11	9.55

STATION NAME 05N 05W 20CCD1 SITE NUMBER 434459116575001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 37 FT, CASED TO 36 FT. LATITUDE 43°44'59", LONGITUDE 116°57'50". LSD ABOUT 2,255 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE, 0.75 FT ABOVE LSD (SINCE APR 21, 1998).

RECORDS AVAILABLE 1991, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 13.18 FEET BELOW LAND SURFACE DATUM AUG 21, 1996.
LOWEST WATER LEVEL 21.60 FEET BELOW LAND SURFACE DATUM APR 21, 1998.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	13.95	DEC 12	15.75	FEB 13	17.13	APR 17	17.12	JUN 19	14.21	AUG 14	12.85
NOV 14	14.90	JAN 23	16.71	MAR 13	17.53	MAY 15	15.65	JUL 17	14.78	SEP 11	13.19

STATION NAME 05N 04W 09DCA1 SITE NUMBER 434651116490501

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 281 FT, 6-IN CASING TO 270 FT, 5-IN CASING 259-281 FT, SCREENED 274-279 FT. LATITUDE 43°46'51", LONGITUDE 116°49'05". LSD ABOUT 2,460 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.40 FT ABOVE LSD (SINCE MAR 25, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 105.03 FEET BELOW LAND SURFACE DATUM OCT 28, 1997.
LOWEST WATER LEVEL 111.50 FEET BELOW LAND SURFACE DATUM NOV 14, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	106.55	DEC 12	106.91	FEB 13	108.00	APR 17	108.87	JUN 19	108.10	AUG 14	109.21
NOV 14	111.50	JAN 23	107.59	MAR 13	108.31	MAY 15	109.35	JUL 17	108.45	SEP 11	107.90

STATION NAME 05N 04W 35BBB1 SITE NUMBER 434359116472801

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 75 FT, CASED TO 74 FT. LATITUDE 43°43'59", LONGITUDE 116°47'28". LSD ABOUT 2,330 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 1.00 FT ABOVE LSD (SINCE MAR 21, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 12.15 FEET BELOW LAND SURFACE DATUM SEP 17, 1996.
LOWEST WATER LEVEL 17.77 FEET BELOW LAND SURFACE DATUM SEP 11, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	13.76	DEC 12	14.81	FEB 13	15.49	APR 17	15.14	JUN 19	14.60	AUG 14	14.24
NOV 14	14.20	JAN 23	15.33	MAR 13	15.48	MAY 15	15.33	JUL 17	14.73	SEP 11	17.77

STATION NAME 05N 03W 15DDC1 SITE NUMBER 434554116403101

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 147 FT, 6-IN CASING TO 145 FT. LATITUDE 43°45'54", LONGITUDE 116°40'31". LSD ABOUT 2,495 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 1.70 FT ABOVE LSD (SINCE MAR 24, 1994).

RECORDS AVAILABLE 1994, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 47.13 FEET BELOW LAND SURFACE DATUM OCT 28, 1997.
LOWEST WATER LEVEL 55.78 FEET BELOW LAND SURFACE DATUM MAY 15, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	49.20	DEC 12	51.06	FEB 13	53.32	APR 17	55.30	JUN 19	54.53	AUG 14	52.15
NOV 14	50.00	JAN 23	52.57	MAR 13	54.20	MAY 15	55.78	JUL 17	53.25	SEP 11	51.29

STATION NAME 05N 03W 30ADD1 SITE NUMBER 434430116435601

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 180 FT, 6-IN CASING TO 158 FT. LATITUDE 43°44'35", LONGITUDE 116°43'56". LSD ABOUT 2,475 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 2.04 FT ABOVE LSD (SINCE MAY 28, 1993).

RECORDS AVAILABLE 1993, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 81.15 FEET BELOW LAND SURFACE DATUM OCT 28, 1997.
LOWEST WATER LEVEL 95.56 FEET BELOW LAND SURFACE DATUM JUN 19, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	82.01	DEC 12	82.98	FEB 13	84.19	APR 17	85.21	JUN 19	95.56	AUG 14	86.31
NOV 14	82.37	JAN 23	83.76	MAR 13	84.59	MAY 15	85.86	JUL 17	94.84	SEP 11	84.66

STATION NAME 05N 02W 22CAD1 SITE NUMBER 434514116334501

FORMERLY SITE NUMBER 434601116342601, STATION NAME 05N 02W 22CAA1. DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 TO 8 IN, DEPTH 450 FT, 12-IN CASING TO 303 FT, 8-IN CASING 284-403 FT, PERFORATED 279-403 FT. LATITUDE 43°45'14", LONGITUDE 116°33'45". LSD ABOUT 2,610 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 1 1/2-IN VERTICAL ACCESS PIPE SOUTH SIDE, 1.50 FT ABOVE LSD (SINCE FEB 21, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 178.74 FEET BELOW LAND SURFACE DATUM MAR 18, 1998.
LOWEST WATER LEVEL 197.07 FEET BELOW LAND SURFACE DATUM JUN 13, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	182.25	DEC 12	180.50	FEB 13	180.17	APR 17	180.19	JUN 19	187.37	AUG 14	P
NOV 14	192.29	JAN 23	179.66	MAR 13	180.13	MAY 15	182.95	JUL 17	189.05	SEP 11	191.02

STATION NAME 04N 05W 07DCD1 SITE NUMBER 434132116584001

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 100 FT, CASED TO 100 FT, PERFORATED 64-100 FT, GRAVEL PACKED 0-73 FT. LATITUDE 43°41'32", LONGITUDE 116°58'40". LSD ABOUT 2,292 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM EDGE OF ACCESS PIPE WEST SIDE, 1.00 FT ABOVE LSD (SINCE MAR 16, 1971).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.
HIGHEST WATER LEVEL 10.79 FEET BELOW LAND SURFACE DATUM SEP 26, 1984.
LOWEST WATER LEVEL 22.34 FEET BELOW LAND SURFACE DATUM SEP 23, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 12	17.30	MAR 27	18.12	SEP 19	68.50P

STATION NAME 04N 05W 14DAD1 SITE NUMBER 434053116532901

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 65 FT, CASED TO 56 FT. LATITUDE 43°40'53", LONGITUDE 116°53'29". LSD ABOUT 2,431 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 0.90 FT ABOVE LSD (SINCE JUN 03, 1992).

RECORDS AVAILABLE 1975, 1992, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 6.38 FEET BELOW LAND SURFACE DATUM MAY 18, 1998.
LOWEST WATER LEVEL 12.21 FEET BELOW LAND SURFACE DATUM SEP 11, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	10.59	DEC 12	10.68	FEB 13	10.88	APR 17	11.35	JUN 19	11.48	AUG 14	10.61
NOV 14	10.70	JAN 23	10.63	MAR 13	9.90	MAY 15	8.38	JUL 17	10.82	SEP 11	12.21

STATION NAME 04N 04W 04CDC1 SITE NUMBER 434225116493101

DRILLED DOMESTIC-STOCK ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 4 IN, DEPTH 420 FT, CASED TO 387 FT. LATITUDE 43°42'25", LONGITUDE 116°49'31". LSD ABOUT 2,285 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 2-IN DISCHARGE PIPE, 2.20 FT ABOVE LSD (SINCE MAR 21, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL +12.62 FEET ABOVE LAND SURFACE DATUM JUL 26, 1999.
LOWEST WATER LEVEL +8.30 FEET ABOVE LAND SURFACE DATUM OCT 17, 2000.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	+8.30	DEC 12	+9.94	FEB 13	+9.30	APR 17	+11.00	JUN 19	+11.52	AUG 14	+11.32
NOV 14	+9.32	JAN 23	+10.90	MAR 13	+9.80	MAY 15	+10.62	JUL 17	+10.72	SEP 11	+9.52

STATION NAME 04N 04W 05CAC1 SITE NUMBER 434234116504601

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 224 FT, 6-IN CASING TO 168 FT. LATITUDE 43°42'34", LONGITUDE 116°50'46". LSD ABOUT 2,280 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF CONCRETE PAD AT LSD (SINCE JUN 03, 1992).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL +5.02 FEET ABOVE LAND SURFACE DATUM AUG 14, 2001.
LOWEST WATER LEVEL +1.72 FEET ABOVE LAND SURFACE DATUM APR 21, 1998.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	+3.25	DEC 12	+3.60	FEB 13	+3.62	APR 17	+4.33	JUN 19	+3.73	AUG 14	+5.02
NOV 14	+3.86	JAN 23	+3.11	MAR 13	+4.10	MAY 15	+4.54	JUL 17	+3.62	SEP 11	O

STATION NAME 04N 03W 15ADC1 SITE NUMBER 434105116402701

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 1,010 FT, 2-IN PVC PIEZOMETER 0-952 FT, PERFORATED 912-922 FT, 932-942 FT, BENTONITE SEAL 875-895 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.38 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 35.10 FEET BELOW LAND SURFACE DATUM JUL 18, 2001.
LOWEST WATER LEVEL 38.87 FEET BELOW LAND SURFACE DATUM DEC 15, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	36.75	DEC 13	36.68	FEB 14	36.45	APR 18	36.09	JUN 20	35.49	AUG 15	35.12
NOV 15	36.73	JAN 24	36.54	MAR 14	36.37	MAY 16	35.80	JUL 18	35.10	SEP 12	35.17

STATION NAME 04N 03W 15ADC2 SITE NUMBER 434105116402702

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 725 FT, 2-IN PVC PIEZOMETER 0-714 FT, PERFORATED 679-689 FT, 699-709 FT, BENTONITE CHIPS 579-615 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.37 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 32.05 FEET BELOW LAND SURFACE DATUM MAY 16, 2000.
LOWEST WATER LEVEL 34.41 FEET BELOW LAND SURFACE DATUM SEP 12, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	33.99	DEC 13	33.25	FEB 14	32.79	APR 18	32.78	JUN 20	33.24	AUG 15	34.10
NOV 15	33.63	JAN 24	32.86	MAR 14	32.83	MAY 15	32.84	JUL 18	33.49	SEP 12	34.41

STATION NAME 04N 03W 15ADC3 SITE NUMBER 434105116402703

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 550 FT, 2-IN PVC PIEZOMETER 0-546 FT, PERFORATED 516-536 FT, 546-550 FT, BENTONITE CHIPS 430-476 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.38 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 63.84 FEET BELOW LAND SURFACE DATUM DEC 13, 2000.
LOWEST WATER LEVEL 69.55 FEET BELOW LAND SURFACE DATUM AUG 15, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	64.52	DEC 13	63.84	FEB 14	64.61	APR 18	64.58	JUN 20	67.40	AUG 15	69.55
NOV 15	63.96	JAN 24	64.04	MAR 14	64.48	MAY 16	66.29	JUL 18	68.22	SEP 12	67.73

STATION NAME 04N 03W 15ADC4 SITE NUMBER 434105116402704

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 407 FT, 2-IN PVC PIEZOMETER 0-406 FT, PERFORATED 376-396 FT, BENTONITE CHIPS 270-370 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.40 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 72.41 FEET BELOW LAND SURFACE DATUM OCT 18, 2000.
LOWEST WATER LEVEL 86.61 FEET BELOW LAND SURFACE DATUM AUG 15, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	72.41	DEC 13	72.64	FEB 14	73.11	APR 18	73.48	JUN 20	75.75	AUG 15	86.61
NOV 15	72.62	JAN 24	72.84	MAR 14	73.09	MAY 16	74.86	JUL 18	86.48	SEP 12	81.85

STATION NAME 04N 03W 15ADC5 SITE NUMBER 434105116402705

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 270 FT, 2-IN PVC PIEZOMETER 0-258 FT, PERFORATED 238-248 FT, BENTONITE CHIPS 208-234 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.41 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 72.40 FEET BELOW LAND SURFACE DATUM OCT 18, 2000.
LOWEST WATER LEVEL 84.47 FEET BELOW LAND SURFACE DATUM AUG 15, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	72.40	DEC 13	73.64	FEB 14	73.24	APR 18	73.60	JUN 20	75.69	AUG 15	84.47
NOV 15	72.63	JAN 24	72.99	MAR 14	73.23	MAY 16	74.83	JUL 18	84.01	SEP 12	80.39

STATION NAME 04N 03W 15ADC6 SITE NUMBER 434105116402706

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 208 FT, 2-IN PVC PIEZOMETER 0-202 FT, PERFORATED 182-192 FT, BENTONITE CHIPS 166-174 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.40 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 73.54 FEET BELOW LAND SURFACE DATUM OCT 18, 2000.
LOWEST WATER LEVEL 81.99 FEET BELOW LAND SURFACE DATUM AUG 15, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	73.54	DEC 13	74.14	FEB 14	74.78	APR 18	75.20	JUN 20	76.72	AUG 15	81.99
NOV 15	73.88	JAN 24	74.50	MAR 14	74.85	MAY 16	76.05	JUL 18	81.70	SEP 12	79.13

STATION NAME 04N 03W 15ADC7 SITE NUMBER 434105116402707

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 166 FT, 2-IN PVC PIEZOMETER 0-162 FT, PERFORATED 142-152 FT, BENTONITE CHIPS 122-139 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.37 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 74.46 FEET BELOW LAND SURFACE DATUM OCT 18, 2000.
LOWEST WATER LEVEL 77.54 FEET BELOW LAND SURFACE DATUM JUL 18, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	74.46	DEC 13	75.46	FEB 14	76.51	APR 18	77.16	JUN 20	77.22	AUG 15	77.06
NOV 15	75.00	JAN 24	76.18	MAR 14	76.81	MAY 16	77.22	JUL 18	77.54	SEP 12	75.91

STATION NAME 04N 03W 15ADC8 SITE NUMBER 434105116402708

DRILLED OBSERVATION WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 22-12 IN, DEPTH 122 FT, 2-IN PVC PIEZOMETER 0-122 FT, PERFORATED 110-120 FT, BENTONITE CHIPS 0-107 FT. LATITUDE 43°41'05", LONGITUDE 116°20'27". LSD ABOUT 2,441 FT ABOVE SEA LEVEL. MP NO. 1 INSIDE EDGE OF 2-IN PVC PIPE, 1.41 FT ABOVE LSD (SINCE NOV 30, 1999).

RECORDS AVAILABLE 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 73.24 FEET BELOW LAND SURFACE DATUM SEP 27, 2000.
LOWEST WATER LEVEL 76.99 FEET BELOW LAND SURFACE DATUM MAY 16, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	73.24	DEC 13	74.47	FEB 14	75.89	APR 18	76.87	JUN 20	76.68	AUG 15	75.01
NOV 15	73.84	JAN 24	75.43	MAR 14	76.42	MAY 16	76.99	JUL 18	75.96	SEP 12	74.04

STATION NAME 04N 03W 27CBAD1 SITE NUMBER 433915116411701

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 97 FT, CASED TO 75.5 FT. LATITUDE 43°39'15", LONGITUDE 116°41'17". LSD ABOUT 2,380 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 1.25 FT ABOVE LSD (SINCE MAR 22, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 4.25 FEET BELOW LAND SURFACE DATUM JUL 31, 1997.
LOWEST WATER LEVEL 7.10 FEET BELOW LAND SURFACE DATUM FEB 23, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	4.97	DEC 13	6.02	FEB 14	6.45	APR 18	6.58	JUN 20	5.49	AUG 15	6.88
NOV 15	5.65	JAN 24	6.35	MAR 14	6.48	MAY 16	6.03	JUL 18	6.40	SEP 12	6.06

STATION NAME 04N 02W 06CDD1 SITE NUMBER 434228116372701

DRILLED UNUSED PUBLIC-SUPPLY WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 420 FT, 12-IN CASING TO 365 FT, 6-IN CASING 76-404 FT. LATITUDE 43°42'28", LONGITUDE 116°37'27". LSD ABOUT 2,404 FT ABOVE SEA LEVEL. MP NO. 1 CONCRETE FLOOR AT LSD (SINCE MAR 18, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL +20.13 FEET ABOVE LAND SURFACE DATUM FEB 15, 2000.
LOWEST WATER LEVEL +14.62 FEET ABOVE LAND SURFACE DATUM SEP 11, 2001.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	+16.60	DEC 12	+19.24	FEB 13	+19.30	APR 17	+19.90	JUN 19	+18.52	AUG 14	+14.92
NOV 14	+16.90	JAN 23	+19.20	MAR 13	+19.00	MAY 15	+16.62	JUL 17	+16.02	SEP 11	+14.62

STATION NAME 04N 02W 07AAC1 SITE NUMBER 434214116365901

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 42 FT, CASED TO 40 FT. LATITUDE 43°42'14", LONGITUDE 116°36'59". LSD ABOUT 2,395 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 2.30 FT ABOVE LSD (SINCE MAR 29, 1994).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.14 FEET BELOW LAND SURFACE DATUM AUG 22, 1996.
LOWEST WATER LEVEL 8.06 FEET BELOW LAND SURFACE DATUM JUN 19, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	3.18	DEC 12	3.80	FEB 13	3.40	APR 17	3.59	JUN 19	8.06	AUG 14	6.88
NOV 14	3.64	JAN 23	3.53	MAR 13	3.56	MAY 15	5.98	JUL 17	6.79	SEP 11	4.38

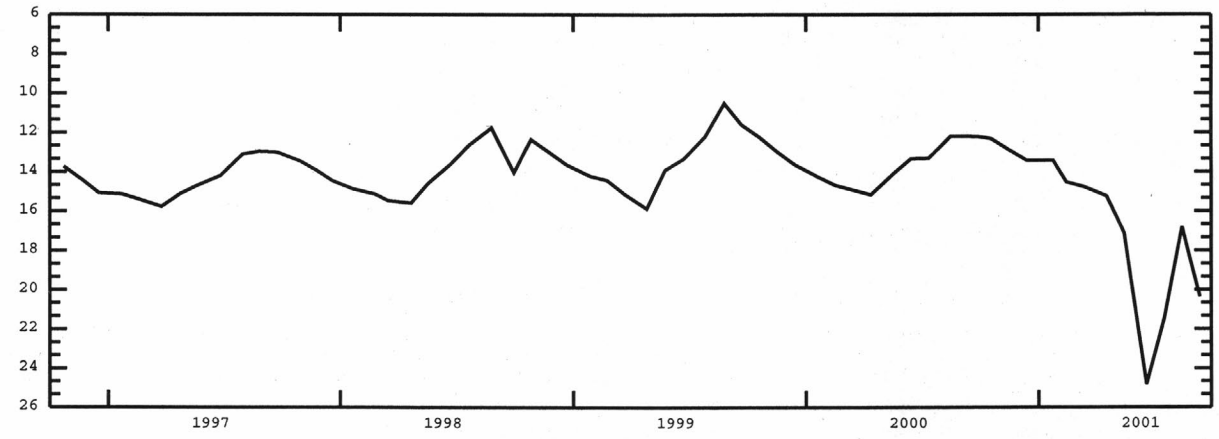
STATION NAME 03N 04W 11ADA1 SITE NUMBER 433646116461801

DRILLED OBSERVATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 TO 4 IN, DEPTH 99.4 FT, 6-IN CASING TO 95 FT, 4-IN CASING 94-99.4 FT, PERFORATED 94-99.4 FT. LATITUDE 43°36'46", LONGITUDE 116°46'18". LSD ABOUT 2,497 FT ABOVE SEA LEVEL. MAR 01, 1974, WELL HAD FILLED IN TO A DEPTH OF 91.1 FT. RECORDER INSTALLED AUG 20, 1953 TO OCT 20, 1954. RECORDER INSTALLED MAY 12, 1967 TO NOV 24, 1971. MP NO. 1 EDGE OF CASING, 0.60 FT ABOVE LSD (SINCE MAY 12, 1967).

RECORDS AVAILABLE 1953 TO CURRENT YEAR.
HIGHEST WATER LEVEL 5.89 FEET BELOW LAND SURFACE DATUM AUG 26, 1953.
LOWEST WATER LEVEL 31.23 FEET BELOW LAND SURFACE DATUM SEP 23, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	12.30	DEC 13	13.41	FEB 14	14.53	APR 18	15.24	JUN 20	24.83	AUG 15	16.80
NOV 15	12.87	JAN 24	13.41	MAR 14	14.77	MAY 16	17.12	JUL 18	21.46	SEP 12	20.36



STATION NAME 03N 03W 03BCB2 SITE NUMBER 433745116412501

DRILLED OBSERVATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 TO 4 IN, DEPTH 94 FT, 6-IN CASING TO 90.5 FT, PERFORATED 22-25 FT, SCREENED 84-94.5 FT. LATITUDE 43°37'45", LONGITUDE 116°41'25". LSD 2,429.23 FT ABOVE SEA LEVEL. RECORDER INSTALLED OCT 19, 1953 TO AUG 20, 1954. MP NO. 4 TOP OF ACCESS HOLE WEST SIDE, 1.95 FT ABOVE LSD (SINCE DEC 19, 1997).

RECORDS AVAILABLE 1953 TO CURRENT YEAR.
HIGHEST WATER LEVEL 7.13 FEET BELOW LAND SURFACE DATUM SEP 27, 1960.
LOWEST WATER LEVEL 21.75 FEET BELOW LAND SURFACE DATUM AUG 15, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	19.96	DEC 13	17.91	FEB 14	17.85	APR 18	18.10	JUN 20	21.25	AUG 15	21.75
NOV 15	18.33	JAN 24	17.78	MAR 14	17.93	MAY 16	19.77	JUL 18	21.57	SEP 12	20.39

STATION NAME 03N 03W 23DCD1 SITE NUMBER 433433116392701

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 14 TO 12 IN, DEPTH 97 FT, 12-IN CASING TO 95 FT, PERFORATED 50-80 FT. LATITUDE 43°34'33", LONGITUDE 116°39'27". LSD ABOUT 2,490 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 0.75 FT ABOVE LSD (SINCE MAR 21, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 36.99 FEET BELOW LAND SURFACE DATUM SEP 30, 1990.
LOWEST WATER LEVEL 49.08 FEET BELOW LAND SURFACE DATUM AUG 15, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	43.05	DEC 13	38.23	FEB 14	38.58	APR 18	38.84	JUN 20	48.89	AUG 15	49.08
NOV 15	37.98	JAN 24	38.45	MAR 14	38.72	MAY 16	49.67P	JUL 18	48.83	SEP 12	48.95

STATION NAME 03N 02W 08BCCC1 SITE NUMBER 433645116364001

DRILLED COMMERCIAL ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 93.5 FT, 6-IN CASING TO 93.5 FT. LATITUDE 43°36'45", LONGITUDE 116°36'40". LSD ABOUT 2,445 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 2.30 FT ABOVE LSD (SINCE MAR 28, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 5.73 FEET BELOW LAND SURFACE DATUM NOV 15, 2000.
LOWEST WATER LEVEL 11.44 FEET BELOW LAND SURFACE DATUM JUL 18, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	6.48	DEC 13	7.38	FEB 14	7.83	APR 18	10.67	JUN 20	8.92	AUG 15	10.26
NOV 15	5.73	JAN 24	7.82	MAR 14	7.92	MAY 16	9.75	JUL 18	9.72	SEP 12	8.40

STATION NAME 03N 02W 26BAA1 SITE NUMBER 433433116323001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 83 FT, CASED TO 34 FT. LATITUDE 43°34'33", LONGITUDE 116°32'30". LSD ABOUT 2,505 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 1.15 FT ABOVE LSD (SINCE JUN 17, 1993).

RECORDS AVAILABLE 1970, 1990, 1993, 1996 TO CURRENT YEAR
HIGHEST WATER LEVEL 17.59 FEET BELOW LAND SURFACE DATUM OCT 09, 1970.
LOWEST WATER LEVEL 25.82 FEET BELOW LAND SURFACE DATUM APR 18, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	20.57	DEC 14	22.09	FEB 14	23.33	APR 18	25.82	JUN 20	25.80	AUG 15	25.20
NOV 15	21.42	JAN 24	22.84	MAR 14	25.02	MAY 16	25.12	JUL 18	25.18	SEP 12	24.50

STATION NAME 02N 03W 22DDC1 SITE NUMBER 432919116403701

DRILLED UNUSED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 603 FT, CASED TO 580 FT, PERFORATED 400-580 FT, GRAVEL PACKED 0-580 FT. LATITUDE 43°29'19", LONGITUDE 116°40'37". LSD ABOUT 2,750 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 3/4-IN SLOPING ACCESS PIPE ON SOUTHWEST SIDE, 0.90 FT ABOVE LSD (SINCE APR 27, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 313.00 FEET BELOW LAND SURFACE DATUM APR 27, 1967.
LOWEST WATER LEVEL 394.60 FEET BELOW LAND SURFACE DATUM JUL 21, 1982.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	384.63	DEC 14	383.82	FEB 14	383.52	APR 18	382.75	JUN 20	382.88	AUG 15	383.97
NOV 15	384.40	JAN 24	383.33	MAR 14	385.10	MAY 16	383.00	JUL 18	383.72	SEP 12	384.30

STATION NAME 02N 02W 22CCA1 SITE NUMBER 432928116340601

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 207 FT, CASED TO 205 FT. LATITUDE 43 29'28",LONGITUDE 116 34'06".LSD ABOUT 2,640 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.95 FT ABOVE LSD (SINCE MAR 19, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 96.71 FEET BELOW LAND SURFACE DATUM MAR 22, 2000.
LOWEST WATER LEVEL 113.78 FEET BELOW LAND SURFACE DATUM JUL 12, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	101.28	DEC 14	98.94	FEB 14	101.79	APR 18	97.45	JUN 20	113.45R	AUG 15	101.11
NOV 15	100.95	JAN 24	97.50	MAR 14	101.25	MAY 16	98.48	JUL 18	99.26	SEP 12	106.65R

STATION NAME 02N 02W 32CDB1 SITE NUMBER 432743116362101

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 240 FT, CASED TO 225 FT. LATITUDE 43°27'43", LONGITUDE 116°36'21". LSD ABOUT 2,700 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 0.50 FT ABOVE LSD (SINCE DEC 08, 1969).

RECORDS AVAILABLE 1969-1970, 1993, 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 144.10 FEET BELOW LAND SURFACE DATUM DEC 08, 1969.
LOWEST WATER LEVEL 165.34 FEET BELOW LAND SURFACE DATUM AUG 16, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	151.71	DEC 14	150.80	FEB 14	151.54	APR 18	152.19	JUN 20	159.72R	AUG 15	156.61
NOV 15	150.67	JAN 24	153.20	MAR 14	151.92	MAY 16	158.79	JUL 18	157.20	SEP 12	153.88

STATION NAME 02N 01W 07BBC1 SITE NUMBER 433145116304301

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 TO 4 IN, DEPTH 103 FT, 6-IN CASING TO 97 FT, 4-IN CASING 96-103 FT, PERFORATED 97-102 FT. LATITUDE 43°31'45", LONGITUDE 116°30'43". LSD 2,547.92 FT ABOVE SEA LEVEL. RECORDER INSTALLED AUG 19, 1953 TO NOV 24, 1971. MP NO. 4 EDGE OF CASING NORTHEAST SIDE, 1.83 FT ABOVE LSD (SINCE NOV 20, 1997).

RECORDS AVAILABLE 1953 TO CURRENT YEAR.
HIGHEST WATER LEVEL 5.80 FEET BELOW LAND SURFACE DATUM OCT 12, 1960.
LOWEST WATER LEVEL 23.35 FEET BELOW LAND SURFACE DATUM JUL 18, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	10.39	DEC 14	12.65	FEB 14	14.55	APR 18	20.64	JUN 20	19.34	AUG 15	18.05
NOV 15	11.66	JAN 26	14.05	MAR 14	15.29	MAY 16	18.70	JUL 18	23.35	SEP 12	15.38

STATION NAME 02N 01W 32CBB1 SITE NUMBER 432757116292601

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 20 TO 12 IN, DEPTH 240 FT, 16-IN CASING TO 19 FT, 12-IN CASING 150-240 FT, PERFORATED 150-234 FT. LATITUDE 43°27'57", LONGITUDE 116°29'26". LSD ABOUT 2,685 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM OF ACCESS HOLE UNDER PUMPBASE, 1.90 FT ABOVE LSD (SINCE MAR 21, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 108.82 FEET BELOW LAND SURFACE DATUM SEP 30, 1998.
LOWEST WATER LEVEL 124.20 FEET BELOW LAND SURFACE DATUM AUG 15, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	112.05	DEC 14	114.12	FEB 14	118.40	APR 18	121.60	JUN 20	P	AUG 15	124.20
NOV 15	112.80	JAN 26	117.26	MAR 14	120.12	MAY 16	122.22	JUL 18	120.94	SEP 12	P

STATION NAME 01N 03W 03DDD1 SITE NUMBER 432646116402101

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 10 TO 8 IN, DEPTH 731 FT, 10-IN CASING TO 20 FT, 8-IN CASING 0-331 FT. LATITUDE 43°26'46", LONGITUDE 116°40'21". LSD ABOUT 2,715 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE SOUTH SIDE, 1.70 FT ABOVE LSD (SINCE JUN 29, 1989).

RECORDS AVAILABLE 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 300.32 FEET BELOW LAND SURFACE DATUM AUG 15, 2001.
LOWEST WATER LEVEL 345.72 FEET BELOW LAND SURFACE DATUM AUG 16, 1989.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	304.96	DEC 14	301.80	FEB 14	301.42	APR 18	300.90	JUN 20	300.82	AUG 15	300.32
NOV 15	308.32	JAN 24	301.43	MAR 14	302.89	MAY 16	300.92	JUL 18	300.70	SEP 12	299.87

STATION NAME 01N 03W 13AAA1 SITE NUMBER 432548116375701

DRILLED IRRIGATION WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 20 IN, DEPTH 607 FT, 20-IN CASING TO 454 FT, 16-IN CASING 442-607 FT, PERFORATED 220-342 FT, 445-602 FT, GRAVEL PACKED. LATITUDE 43°25'48", LONGITUDE 116°37'57". LSD ABOUT 2,688 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 3/4-IN ACCESS HOLE IN PUMPBASE SOUTH SIDE, 0.80 FT ABOVE LSD (SINCE JUN 28, 1989).

RECORDS AVAILABLE 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 195.40 FEET BELOW LAND SURFACE DATUM MAR 22, 2000.
LOWEST WATER LEVEL 286.39 FEET BELOW LAND SURFACE DATUM JUN 24, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 15	207.48	APR 18	197.50	MAY 16	204.12	SEP 12	214.92

STATION NAME 01N 02W 05ADD1 SITE NUMBER 432708116353901

DRILLED IRRIGATION ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 TO 10 IN, REPORTED DEPTH 720 FT, 12-IN CASING TO 423 FT, 10-IN CASING 415-625 FT, PERFORATED 415-625 FT. LATITUDE 43°27'08", LONGITUDE 116°35'39". LSD ABOUT 2,675 FT ABOVE SEA LEVEL. MP NO. 2 BOTTOM EDGE OF ACCESS PIPE EAST SIDE, 0.05 FT ABOVE LSD (SINCE FEB 24, 1998).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 128.70 FEET BELOW LAND SURFACE DATUM MAR 20, 1968.
LOWEST WATER LEVEL 201.76 FEET BELOW LAND SURFACE DATUM AUG 28, 1967.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 15	139.05	MAR 14	134.47	MAY 16	144.51	SEP 12	169.82

STATION NAME 01N 02W 10DAA1 SITE NUMBER 432613116331001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 9 IN, DEPTH 150 FT, 8 1/2-IN CASING TO 19 FT. LATITUDE 43°26'13", LONGITUDE 116°33'10". LSD ABOUT 2,660 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.55 FT ABOVE LSD (SINCE MAR 19, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 93.77 FEET BELOW LAND SURFACE DATUM NOV 23, 1998.
LOWEST WATER LEVEL 103.08 FEET BELOW LAND SURFACE DATUM AUG 16, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	94.65	DEC 14	94.56	FEB 14	96.76	APR 18	97.54	JUN 20	99.50	AUG 15	99.31
NOV 15	94.70	JAN 26	94.99	MAR 14	97.28	MAY 16	99.05	JUL 18	98.73	SEP 12	99.20

STATION NAME 01S 02W 14CCC2 SITE NUMBER 431948116330001

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 235 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°19'48", LONGITUDE 116°33'00". LSD ABOUT 2,390 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 8.00 FT BELOW LSD (SINCE OCT 26, 1962)

RECORDS AVAILABLE 1962 TO CURRENT YEAR.
HIGHEST WATER LEVEL 42.42 FEET BELOW LAND SURFACE DATUM SEP 28, 1966.
LOWEST WATER LEVEL 74.87 FEET BELOW LAND SURFACE DATUM MAR 15, 1977.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	43.67	DEC 14	45.06	FEB 14	46.78	APR 18	48.38	JUN 20	48.43	AUG 15	47.79
NOV 15	44.30	JAN 26	46.28	MAR 14	47.81	MAY 16	48.52	JUL 18	48.14	SEP 12	47.41

CUSTER COUNTY

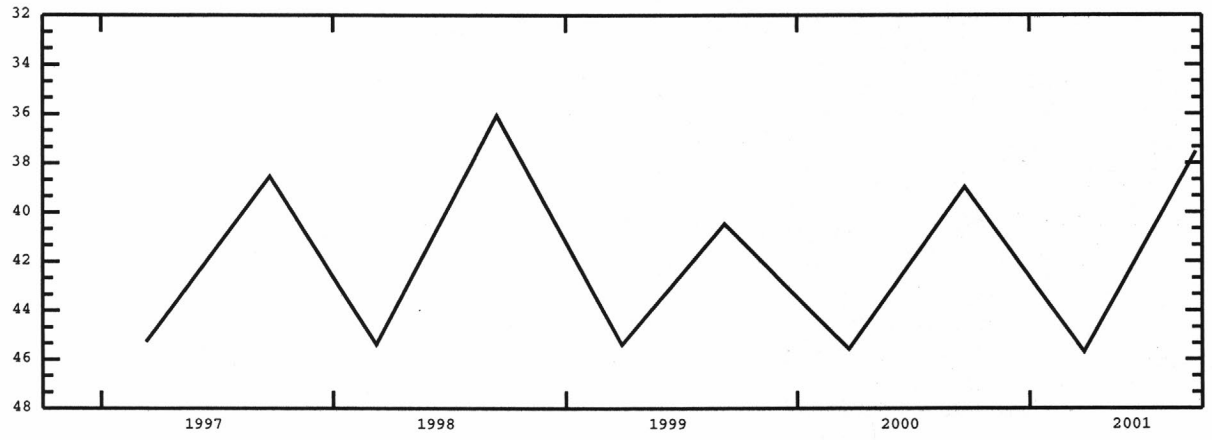
STATION NAME 15N 20E 01ADC2 SITE NUMBER 443942114021302

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 80 FT, 6-IN CASING TO 40 FT. LATITUDE 44°39'44", LONGITUDE 114°02'13". LSD ABOUT 4,748 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING WEST SIDE, 1.25 FT ABOVE LSD (SINCE MAY 24, 1989).

RECORDS AVAILABLE 1989 TO CURRENT YEAR.
HIGHEST WATER LEVEL 31.84 FEET BELOW LAND SURFACE DATUM JUL 17, 1990.
LOWEST WATER LEVEL 45.71 FEET BELOW LAND SURFACE DATUM MAR 28, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 28 45.71 SEP 20 37.54



STATION NAME 12N 23E 03AAD1 SITE NUMBER 442412113423601

FORMERLY STATION NAME 12N 23E 02BBC1. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 20 IN,
DEPTH 127.7 FT, CASING DEPTH AND PERFORATED INTERVAL NOT AVAILABLE. LATITUDE 44°24'12", LONGITUDE 113°42'36". LSD ABOUT 5,908 FT ABOVE SEA LEVEL. MP NO. 4 TOP OF 1/2-IN ACCESS HOLE IN WEST SIDE OF PUMPBASE, 1.42 FT ABOVE LSD (SINCE SEP 24, 1996).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.
HIGHEST WATER LEVEL 9.80 FEET BELOW LAND SURFACE DATUM JUL 17, 1984.
LOWEST WATER LEVEL 36.13 FEET BELOW LAND SURFACE DATUM SEP 21, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 28 29.60 SEP 20 31.16



ELMORE COUNTY

STATION NAME 01S 04E 10DAD1 SITE NUMBER 432055115571801

DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 10 TO 6 IN, DEPTH 525 FT, 10-IN CASING TO 496 FT, 6-IN SCREEN 485-525 FT. LATITUDE 43°20'55", LONGITUDE 115°57'18". LSD ABOUT 3,300 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 04, 1961 TO JUL 20, 1964. MP NO.2 TOP OF 5/8-IN ACCESS HOLE, 2.46 FT ABOVE LSD (SINCE MAR 25, 1980).

RECORDS AVAILABLE 1960 TO CURRENT YEAR.
HIGHEST WATER LEVEL 338.38 FEET BELOW LAND SURFACE DATUM SEP 18, 2001.
LOWEST WATER LEVEL 342.40 FEET BELOW LAND SURFACE DATUM MAR 05, 1974.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 26 338.42 SEP 18 338.38

STATION NAME 02S 05E 26BDB1 SITE NUMBER 431329115495301

DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 8 IN, DEPTH 428.5 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°13'29", LONGITUDE 115°49'53". LSD ABOUT 3,025 FT ABOVE SEA LEVEL. FEB 27, 1985, WELL HAD FILLED IN TO A DEPTH OF 402.6 FT. MP NO. 1 TOP OF 7/8-IN ACCESS HOLE SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE DEC 28, 1960).

RECORDS AVAILABLE 1960, 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 307.02 FEET BELOW LAND SURFACE DATUM AUG 22, 1977.
LOWEST WATER LEVEL 314.25 FEET BELOW LAND SURFACE DATUM JAN 16, 1979.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 26 312.85 SEP 18 312.98

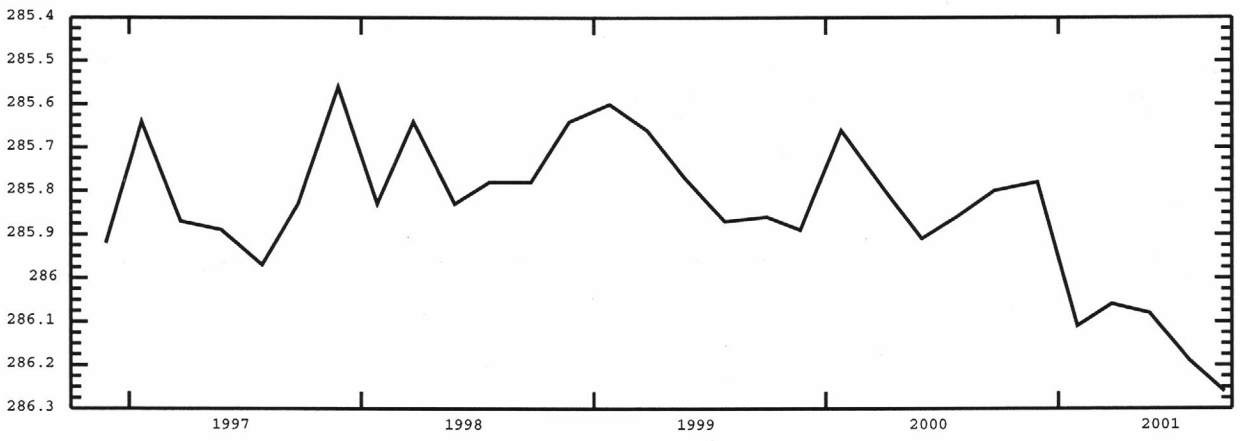
STATION NAME 02S 05E 36BBB1 SITE NUMBER 431242115485501

DRILLED UNUSED WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 6 IN, DEPTH 356.9 FT, CASED TO 50 FT. LATITUDE 43°12'42", LONGITUDE 115°48'55". LSD ABOUT 3,190 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUN 23, 1967 TO NOV 15, 1971. MP NO. 3 EDGE OF CASING NORTHEAST SIDE, 2.00 FT ABOVE LSD (SINCE JUN 23, 1967).

RECORDS AVAILABLE 1960 TO CURRENT YEAR.
HIGHEST WATER LEVEL 280.97 FEET BELOW LAND SURFACE DATUM NOV 21, 1977.
LOWEST WATER LEVEL 286.26 FEET BELOW LAND SURFACE DATUM SEP 18, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 29 285.78 JAN 31 286.11 MAR 26 286.06 MAY 24 286.08 JUL 26 286.19 SEP 18 286.26



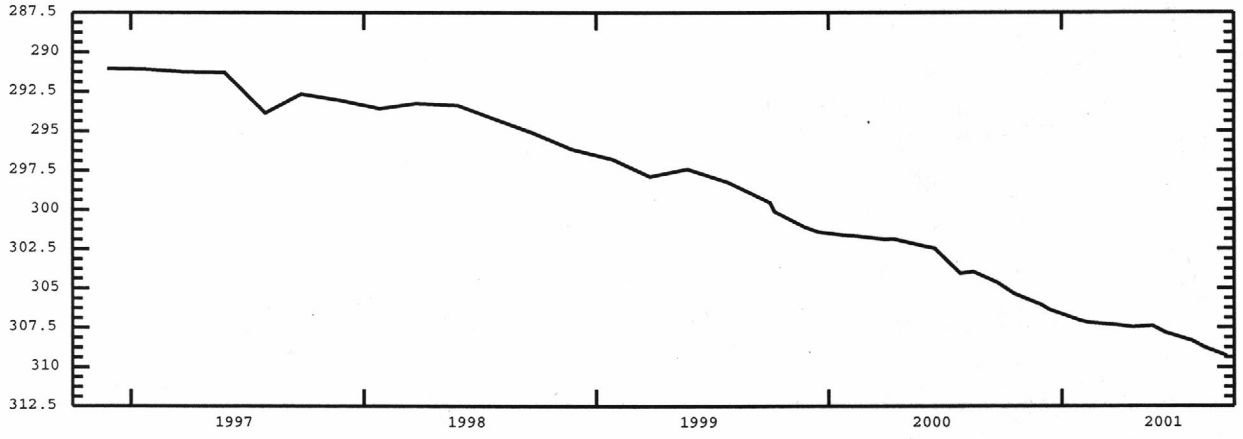
STATION NAME 03S 05E 07BDD1 SITE NUMBER 431044115542901

DRILLED DOMESTIC WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 18 TO 12 IN, DEPTH 497 FT, 18-IN CASING TO 110 FT, 12-IN CASING 0-334 FT, PERFORATED 240-332 FT. LATITUDE 43°10'44", LONGITUDE 115°54'29". LSD ABOUT 3,074 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF 1/2-IN ACCESS HOLE EAST SIDE, 2.10 FT ABOVE LSD (SINCE JUL 25, 1994).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 241.35 FEET BELOW LAND SURFACE DATUM MAY 25, 1976.
LOWEST WATER LEVEL 309.29 FEET BELOW LAND SURFACE DATUM SEP 18, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	305.35	DEC 13	306.36	FEB 13	307.19	APR 23	307.48	JUN 13	307.82	AUG 14	308.76
NOV 29	306.04	JAN 31	307.07	MAR 26	307.33	MAY 24	307.39	JUL 26	308.34	SEP 18	309.29



STATION NAME 03S 06E 13BBA1 SITE NUMBER 431011115411001

DRILLED DOMESTIC WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 12 IN, REPORTED DEPTH 150 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°10'11", LONGITUDE 115°41'10". LSD ABOUT 3,240 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF 5/8-IN ACCESS HOLE EAST SIDE, 1.50 FT ABOVE LSD (SINCE JAN 09, 1996).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 20.15 FEET BELOW LAND SURFACE DATUM MAY 27, 1997.
LOWEST WATER LEVEL 60.88 FEET BELOW LAND SURFACE DATUM SEP 14, 1981.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 29	28.40	JAN 31	28.07	MAR 26	27.99	MAY 24	33.34	JUL 26	41.24	SEP 18	43.22

STATION NAME 03S 06E 35BCC1 SITE NUMBER 430716115425101

DRILLED DOMESTIC WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 12 IN, DEPTH 857 FT, CASED TO 598 FT, PERFORATED 6-264 FT. LATITUDE 43°07'16", LONGITUDE 115°42'51". LSD ABOUT 3,145 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF CASING, 1.90 FT ABOVE LSD (SINCE APR 19, 1999).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 385.00 FEET BELOW LAND SURFACE DATUM NOV 03, 1967.
LOWEST WATER LEVEL 452.58 FEET BELOW LAND SURFACE DATUM AUG 14, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	446.92	JAN 31	440.45	MAR 26	438.68	MAY 24	445.96	JUL 26	451.73R	SEP 18	451.71
DEC 13	441.35	FEB 13	440.17	APR 23	441.36	JUN 14	447.62	AUG 14	452.58		

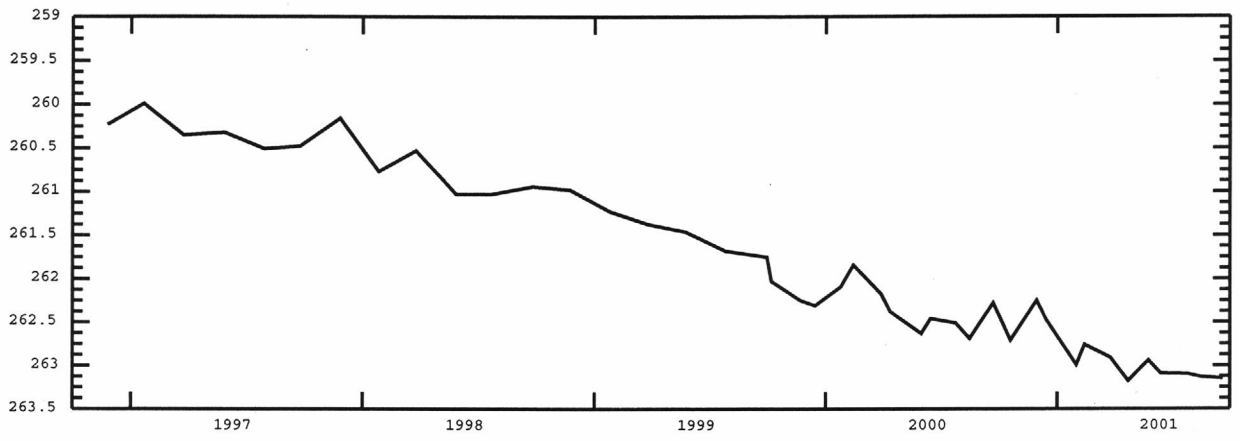
STATION NAME 04S 03E 23CDD1 SITE NUMBER 430321116040101

DRILLED UNUSED WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 20 IN, DEPTH 600 FT, CASED TO 65.5 FT. LATITUDE 43°03'21", LONGITUDE 116°04'01". LSD ABOUT 2,917 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 1-IN COUPLING, 1.65 FT ABOVE LSD (SINCE APR 15, 1976).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL 242.69 FEET BELOW LAND SURFACE DATUM JAN 22, 1977.
LOWEST WATER LEVEL 263.15 FEET BELOW LAND SURFACE DATUM SEP 19, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	262.71	DEC 13	262.46	FEB 13	262.76	APR 23	263.18	JUN 13	263.09	AUG 14	263.13
NOV 29	262.25	JAN 31	262.99	MAR 26	262.91	MAY 25	262.94	JUL 26	263.10	SEP 19	263.15



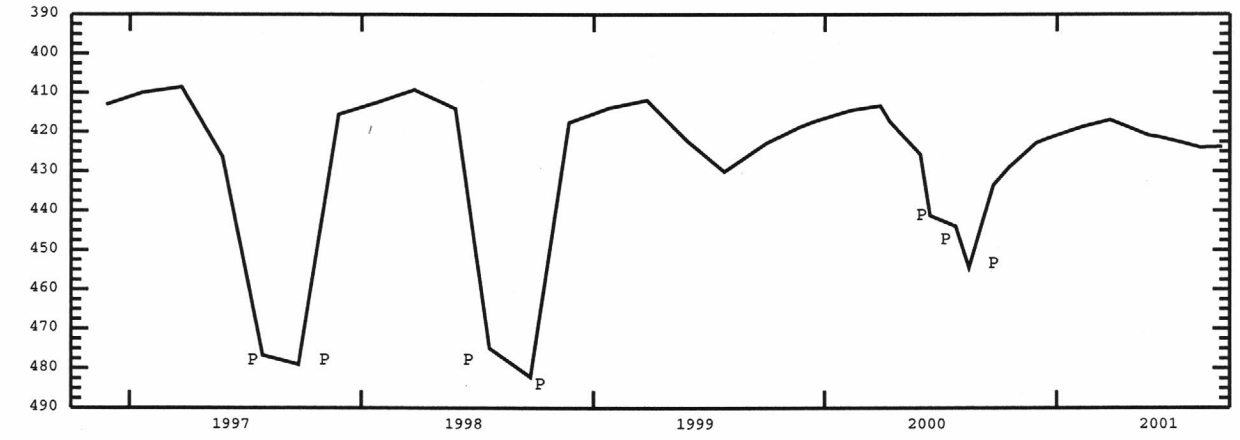
STATION NAME 04S 05E 25BBC1 SITE NUMBER 430310115485701

DRILLED IRRIGATION WATER-TABLE WELL IN BRUNEAU FORMATION, REPORTED DEPTH 530 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°03'10", LONGITUDE 115°48'57". LSD ABOUT 3,048 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE INSIDE PUMPBASE NORTH SIDE, 1.20 FT ABOVE LSD (SINCE SEP 25, 1979).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 359.05 FEET BELOW LAND SURFACE DATUM JAN 27, 1967.
LOWEST WATER LEVEL 433.52 FEET BELOW LAND SURFACE DATUM SEP 22, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	428.91	DEC 13	421.95	FEB 13	418.57	APR 23	418.77	JUN 14	421.45	AUG 14	423.95
NOV 29	422.87	JAN 31	419.27	MAR 26	416.97	MAY 25	420.84	JUL 26	423.14	SEP 18	423.78



STATION NAME 04S 10E 30BBA1 SITE NUMBER 430310115190801

DRILLED UNUSED WATER-TABLE WELL IN GLENNS FERRY FORMATION, DIAM 16 IN, DEPTH 2,265 FT, 20-IN CASING TO 400 FT, 16-IN CASING 0-1,497 FT. LATITUDE 43°03'10", LONGITUDE 115°19'08". LSD ABOUT 3,455 FT ABOVE SEA LEVEL. SEP 02, 1970, WELL HAD FILLED IN TO A DEPTH OF 1,481 FT. MP NO. 1 TOP OF ACCESS HOLE, 1.70 FT ABOVE LSD (SINCE FEB 03, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 257.33 FEET BELOW LAND SURFACE DATUM MAR 23, 1968.
LOWEST WATER LEVEL 272.38 FEET BELOW LAND SURFACE DATUM MAR 12, 1998.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 20 266.18 OCT 22 265.92

STATION NAME 05S 04E 05BCD1 SITE NUMBER 430114116003701

DRILLED IRRIGATION WATER-TABLE WELL IN GLENNS FERRY FORMATION, DIAM 24-20-16 IN, DEPTH 370 FT, 20-IN CASING TO 59 FT, 16-IN CASING 0-229 FT, 14-IN CASING 218-318.5 FT, 10-IN CASING 312-367 FT, PERFORATED 162-318.5 FT, 322-360 FT. LATITUDE 43°01'14", LONGITUDE 116°00'37". LSD ABOUT 2,855 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF ACCESS HOLE, 0.80 FT ABOVE LSD (SINCE JUN 20, 1991).

RECORDS AVAILABLE 1987 TO CURRENT YEAR.
HIGHEST WATER LEVEL 218.57 FEET BELOW LAND SURFACE DATUM MAR 06, 1990.
LOWEST WATER LEVEL 281.74 FEET BELOW LAND SURFACE DATUM SEP 21, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	277.54	DEC 13	266.59	FEB 13	263.30	APR 23	262.83	JUN 13	264.12	AUG 14	265.03
NOV 29	267.68	JAN 31	264.19	MAR 26	262.04	MAY 24	264.25	JUL 26	264.52	SEP 19	265.29

STATION NAME 05S 08E 36CCC1 SITE NUMBER 425621115273501

DRILLED UNUSED WATER-TABLE WELL IN MELON GRAVEL, DIAM 6 IN, REPORTED DEPTH 90 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°56'21", LONGITUDE 115°27'35". LSD ABOUT 2,536 FT ABOVE SEA LEVEL. MP NO. 5 EDGE OF CASING, 1.01 FT ABOVE LSD (SINCE JAN 27, 1993).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 55.49 FEET BELOW LAND SURFACE DATUM SEP 21, 1974.
LOWEST WATER LEVEL 66.19 FEET BELOW LAND SURFACE DATUM MAY 27, 1992.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 26 65.63 SEP 18 65.33

STATION NAME 05S 10E 28CAB1 SITE NUMBER 425734115163401

DRILLED DOMESTIC ARTESIAN WELL IN GLENNS FERRY FORMATION, DIAM 8 IN, DEPTH 1,100 FT, CASED TO 146 FT. LATITUDE 42°57'34", LONGITUDE 115°16'34". LSD 2,543.25 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF 1 1/4-IN ACCESS HOLE, 1.21 FT ABOVE LSD (SINCE DEC 04, 1990).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.
HIGHEST WATER LEVEL +4.03 FEET ABOVE LAND SURFACE DATUM APR 19, 1978.
LOWEST WATER LEVEL 17.17 FEET BELOW LAND SURFACE DATUM OCT 19, 1998.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 30	12.07	JAN 10	10.16	MAY 07	10.79	OCT 22	9.79
NOV 08	11.73	MAR 20	10.02	JUL 12	11.22		

STATION NAME 06S 10E 31CCC1 SITE NUMBER 425105115191801

DRILLED DOMESTIC WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 8 TO 6 IN, DEPTH 655 FT, 6-IN CASING TO 435 FT, PERFORATED 380-430 FT. LATITUDE 42°51'05", LONGITUDE 115°19'18". LSD ABOUT 3,050 FT ABOVE SEA LEVEL. MP NO. 1 1/2-IN ACCESS HOLE, 1.45 FT ABOVE LSD (SINCE MAR 03, 1982).

RECORDS AVAILABLE 1982 TO CURRENT YEAR.
HIGHEST WATER LEVEL 298.53 FEET BELOW LAND SURFACE DATUM OCT 22, 2001.
LOWEST WATER LEVEL 305.56 FEET BELOW LAND SURFACE DATUM OCT 20, 1987.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 08	298.83	MAR 20	298.67	JUL 12	298.86
JAN 10	298.80	MAY 07	298.83	OCT 22	298.53

ELMORE COUNTY--continued

STATION NAME 06S 11E 06BBA1 SITE NUMBER 425617115120001

DRILLED DOMESTIC WATER-TABLE WELL IN GLENNS FERRY FORMATION, DIAM 6 IN, REPORTED DEPTH 445 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°56'17", LONGITUDE 115°12'00". LSD ABOUT 2,680 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE EAST SIDE, 0.60 FT ABOVE LSD (SINCE FEB 15, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 107.21 FEET BELOW LAND SURFACE DATUM FEB 15, 1967.
LOWEST WATER LEVEL 131.72 FEET BELOW LAND SURFACE DATUM MAY 07, 1991.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 08	127.82	MAR 20	128.28	JUL 12	128.83
JAN 10	127.99	MAY 07	128.63	OCT 22	128.72

STATION NAME 07S 10E 22DDD1 SITE NUMBER 424749115153101

DRILLED DOMESTIC WATER-TABLE WELL IN GLENNS FERRY FORMATION, DIAM 8 IN, DEPTH 735 FT, CASED TO 735 FT, PERFORATED 695-735 FT. LATITUDE 42°47'49", LONGITUDE 115°15'31". LSD ABOUT 3,158 FT ABOVE SEA LEVEL. MP NO. 3 BOTTOM LIP OF 1-IN PVC PIPE, 4.00 FT ABOVE LSD (SINCE MAY 09, 1997).

RECORDS AVAILABLE 1982, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 253.09 FEET BELOW LAND SURFACE DATUM MAR 12, 1992.
LOWEST WATER LEVEL 284.38 FEET BELOW LAND SURFACE DATUM NOV 13, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 08	274.05	MAR 20	274.26	OCT 22	276.40

GEM COUNTY

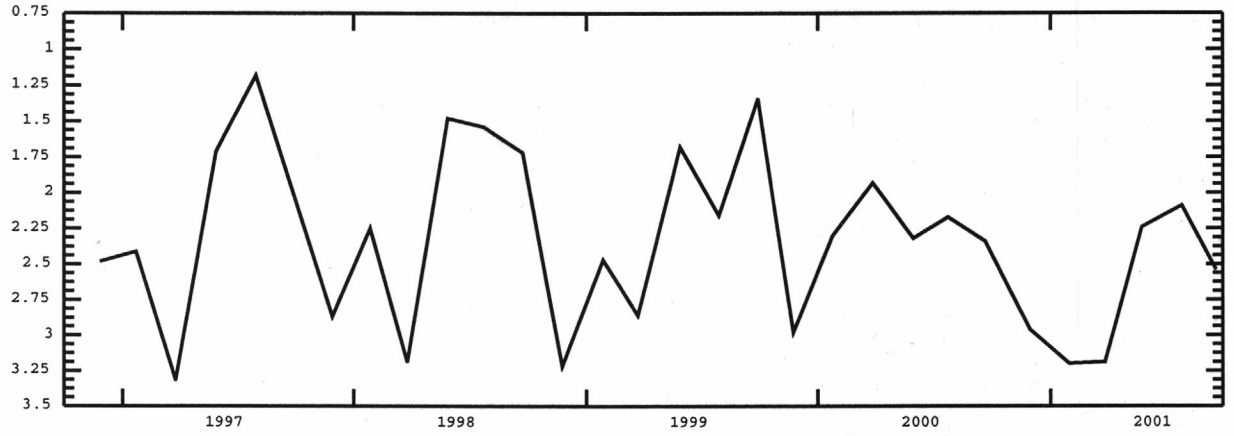
STATION NAME 07N 03W 34ABD1 SITE NUMBER 435424116403701

FORMERLY SITE NUMBER 435426116403701. DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DEPTH 22.8 FT, 1 1/4-IN PIEZOMETER TUBE TO 23.1 FT, PERFORATED 18-21 FT, GRAVEL FILL 0-35 FT, CONCRETE SEAL 35-45 FT. LATITUDE 43°54'24", LONGITUDE 116°40'37". LSD 2,267.80 FT ABOVE SEA LEVEL. MEASUREMENTS PRIOR TO DEC 03, 1971 MADE BY U.S. BUREAU OF RECLAMATION. MP NO. 1 TOP OF 1 1/4-IN PIPE NORTHWEST SIDE, 1.06 FT ABOVE LSD (SINCE JUL 24, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL .82 FEET BELOW LAND SURFACE DATUM OCT 16, 1979.
LOWEST WATER LEVEL 3.74 FEET BELOW LAND SURFACE DATUM MAR 30, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 30	2.96	JAN 30	3.20	MAR 28	3.19	MAY 25	2.24	JUL 27	2.09	SEP 19	2.54



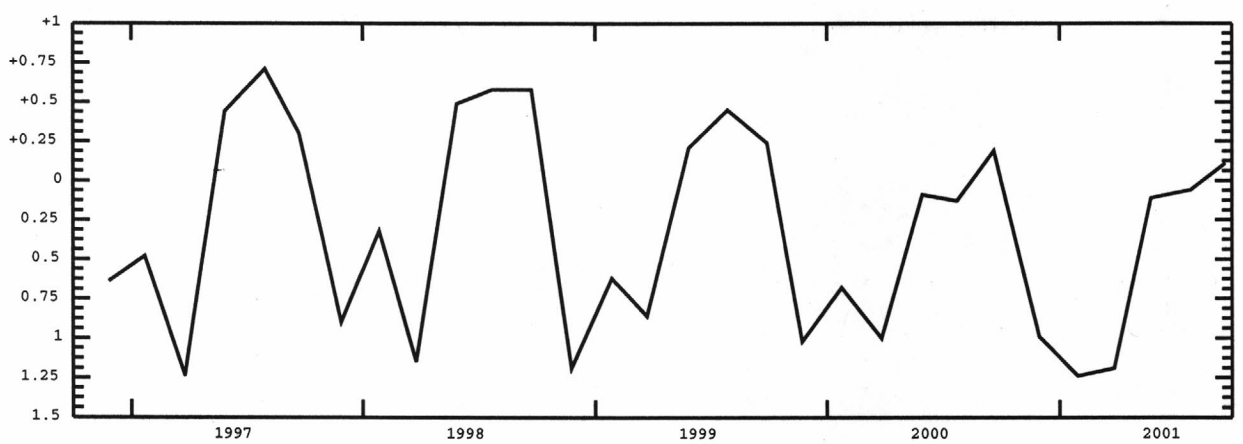
STATION NAME 07N 03W 34ABD2 SITE NUMBER 435424116403702

FORMERLY SITE NUMBER 435426116403702. DRILLED OBSERVATION ARTESIAN WELL IN IDAHO GROUP, DEPTH 54.4 FT, 3/4-IN PIEZOMETER TUBE TO 56.2 FT, PERFORATED 51.2-52.7 FT, GRAVEL FILL 45-55 FT, CONCRETE SEAL 35-45 FT, 55-70 FT. LATITUDE 43°54'24", LONGITUDE 116°40'37". LSD 2,267.80 FT ABOVE SEA LEVEL. MEASUREMENTS PRIOR TO DEC 03, 1971 MADE BY U.S. BUREAU OF RECLAMATION. MP NO. 1 TOP OF 3/4-IN PIPE NORTHWEST SIDE, 1.06 FT ABOVE LSD (SINCE JUL 24, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL +1.06 FEET ABOVE LAND SURFACE DATUM AUG 27, 1970.
LOWEST WATER LEVEL 1.63 FEET BELOW LAND SURFACE DATUM MAR 30, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM,(READINGS ABOVE LAND SURFACE INDICATED BY "+")
WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 30	.99	JAN 30	1.24	MAR 28	1.19	MAY 25	.11	JUL 27	.06	SEP 19	+.11



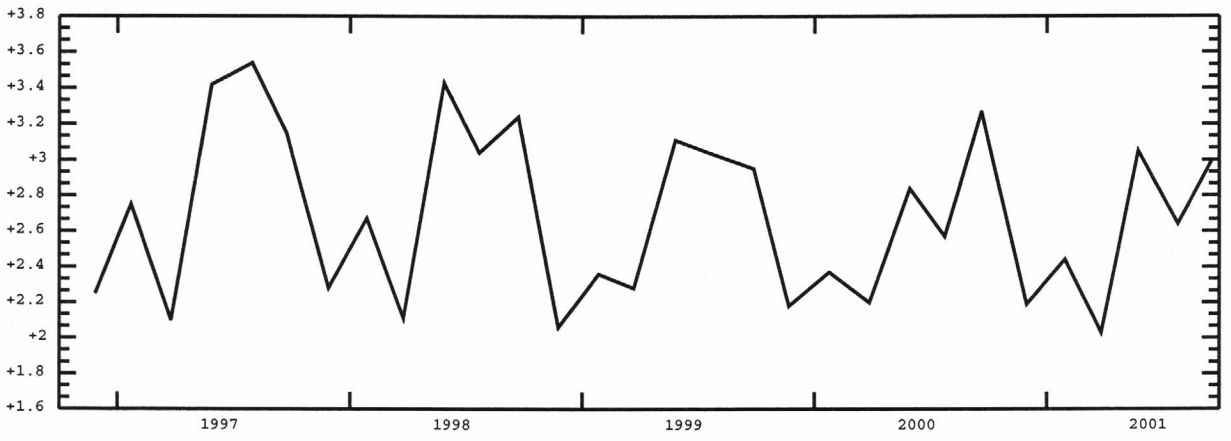
STATION NAME 07N 03W 34ABD3 SITE NUMBER 435424116403703

FORMERLY SITE NUMBER 435426116403703. DRILLED OBSERVATION ARTESIAN WELL IN IDAHO GROUP, DEPTH 85.5 FT, 3/4-IN PIEZOMETER TUBE TO 85 FT, PERFORATED 80-81.5 FT, GRAVEL FILL 70-85.5 FT, CONCRETE SEAL 55-70 FT. LATITUDE 43°54'24", LONGITUDE 116°40'37". LSD 2,267.80 FT ABOVE SEA LEVEL. MEASUREMENTS PRIOR TO DEC 03, 1971 MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED APR 17, 1969 TO MAY 28, 1971. MP NO. 2 EDGE OF 4-IN CASING NORTHWEST SIDE, 5.52 FT ABOVE LSD (SINCE JUL 28, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.
HIGHEST WATER LEVEL +4.41 FEET ABOVE LAND SURFACE DATUM MAY 20, 1976.
LOWEST WATER LEVEL +1.56 FEET ABOVE LAND SURFACE DATUM MAR 30, 1994.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 30	+2.19	JAN 30	+2.44	MAR 28	+2.03	MAY 25	+3.05	JUL 27	+2.64	SEP 19	+3.00



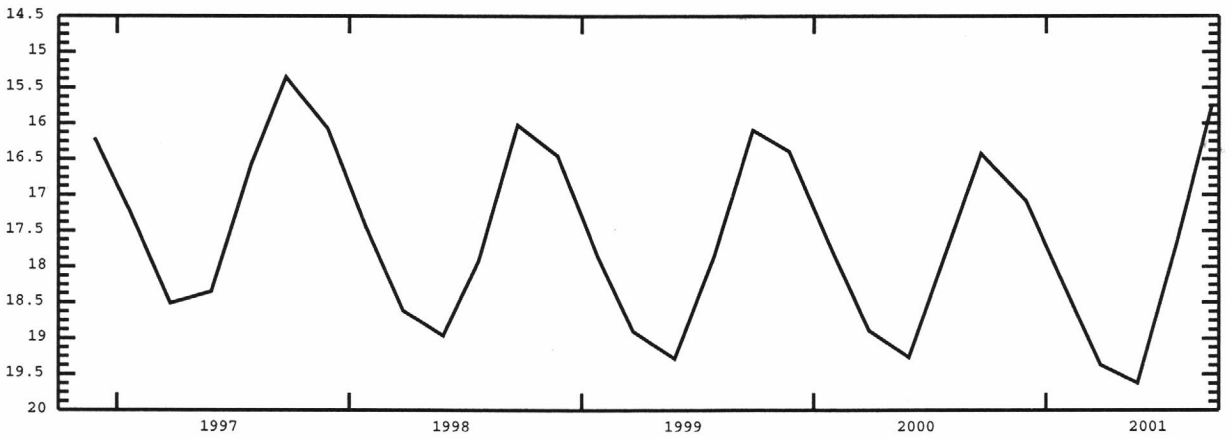
STATION NAME 07N 02W 29BBA2 SITE NUMBER 435523116362601

FORMERLY SITE NUMBER 435524116362801. DRILLED OBSERVATION ARTESIAN WELL IN IDAHO GROUP, DIAM 6 IN, DEPTH 301.7 FT, CASED TO 301.7 FT. LATITUDE 43°55'23", LONGITUDE 116°36'26". LSD 2,396.60 FT ABOVE SEA LEVEL. NOV 10, 1971, WELL HAD FILLED IN TO A DEPTH OF 291.3 FT. MEASUREMENTS PRIOR TO NOV 10, 1971 MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED JUN 26, 1969 TO MAY 28, 1971. MP NO. 1 EDGE OF CASING SOUTH SIDE, 0.90 FT ABOVE LSD (SINCE JUN 26, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.
HIGHEST WATER LEVEL 15.14 FEET BELOW LAND SURFACE DATUM SEP 29, 1992.
LOWEST WATER LEVEL 23.85 FEET BELOW LAND SURFACE DATUM JUN 26, 1969.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 30	17.08	JAN 30	18.28	MAR 28	19.37	MAY 25	19.62	JUL 26	17.67	SEP 19	15.76



STATION NAME 06N 01W 18DAA2 SITE NUMBER 435125116293201

FORMERLY SITE NUMBER 435125116293501. DRILLED DOMESTIC ARTESIAN WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 4 IN, DEPTH 30.9 FT, CASED TO 22 FT. LATITUDE 43°51'25", LONGITUDE 116°29'32". LSD 2,371.90 FT ABOVE SEA LEVEL. MEASUREMENTS PRIOR TO NOV 09, 1971 MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED OCT 17, 1968 TO MAY 28, 1971. MP NO. 1 EDGE OF CASING NORTH SIDE, 0.26 FT ABOVE LSD (SINCE NOV 09, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.04 FEET BELOW LAND SURFACE DATUM AUG 24, 1970.
LOWEST WATER LEVEL 8.57 FEET BELOW LAND SURFACE DATUM MAR 14, 1977.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 30	6.85	JAN 30	7.98	MAR 28	8.23	MAY 25	6.67	JUL 26	5.76	SEP 19	6.22

KOOTENAI COUNTY

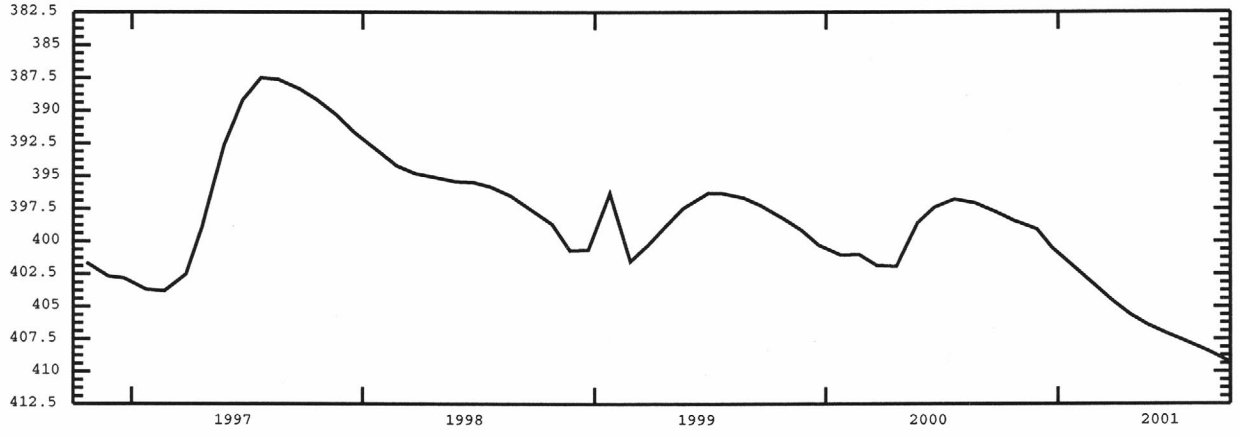
STATION NAME 53N 04W 28CAB1 SITE NUMBER 475439116503401

DRILLED OBSERVATION WATER-TABLE WELL IN POORLY SORTED TILL OF QUATERNARY AGE, DIAM 6 IN, DEPTH 448.6 FT, CASED TO 440 FT, SCREENED 438-448 FT. LATITUDE 47°54'39", LONGITUDE 116°50'34". LSD 2,426.27 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTHEAST SIDE, 2.30 FT ABOVE LSD (SINCE JUL 16, 1971).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.
HIGHEST WATER LEVEL 387.51 FEET BELOW LAND SURFACE DATUM JUL 24, 1997.
LOWEST WATER LEVEL 420.72 FEET BELOW LAND SURFACE DATUM JAN 27, 1995.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 23	398.42	DEC 22	400.48	FEB 26	403.28	APR 25	405.63	JUN 21	407.08	AUG 22	408.36
NOV 29	399.09	JAN 29	402.09	MAR 29	404.61	MAY 23	406.44	JUL 23	407.73	SEP 28	409.25



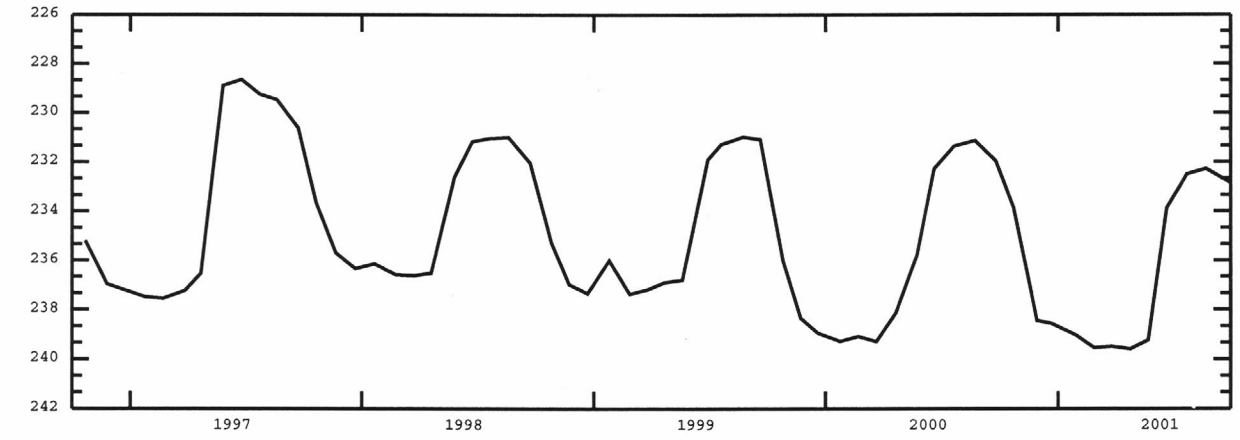
STATION NAME 53N 02W 09AAC1 SITE NUMBER 475736116341701

DRILLED UNUSED WATER-TABLE WELL IN FLUVIOGLACIAL SAND AND GRAVEL OF QUATERNARY AGE, DIAM 16 IN, DEPTH 351 FT, CASED TO 351 FT, PERFORATED 280-345 FT. LATITUDE 47°57'36", LONGITUDE 116°34'17". LSD 2,291.46 FT ABOVE SEA LEVEL. NOV 1966 WELL BECAME BRIDGED, AUG 1968, DROVE OBSTRUCTION DOWN TO 335 FT. AUG 1968 DEPTH SOUNDED AT 331 FT. DEC 13, 1943 THROUGH DEC 29, 1948 MEASUREMENTS MADE BY A.E. HOLTEN, FARRAGUT INSTITUTE, USING AN AIRLINE. RECORDER INSTALLED OCT 25, 1950 TO FEB 04, 1962. MP NO. 9 EDGE OF 2-IN PIPE, 0.48 FT ABOVE LSD (SINCE FEB 23, 1983).

RECORDS AVAILABLE 1943 TO CURRENT YEAR.
HIGHEST WATER LEVEL 228.00 FEET BELOW LAND SURFACE DATUM JUN 08, 1948.
LOWEST WATER LEVEL 252.00 FEET BELOW LAND SURFACE DATUM JAN 02, 1944.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 23	233.84	DEC 22	238.56	FEB 27	239.55	APR 25	239.60	JUN 21	233.87	AUG 22	232.28
NOV 29	238.44	JAN 29	239.03	MAR 26	239.50	MAY 23	239.24	JUL 23	232.50	SEP 28	232.82



STATION NAME 52N 04W 20CCB1 SITE NUMBER 475002116521101

DRILLED DOMESTIC WATER-TABLE WELL IN GLACIAL OUTWASH GRAVELS, DIAM 8 TO 6 IN, DEPTH 500 FT, 8-IN CASING TO 242 FT, PERFORATED 225-240 FT. LATITUDE 47°50'02", LONGITUDE 116°52'11". LSD 2,266.67 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 1 1/4-IN ACCESS HOLE, 1.80 FT ABOVE LSD (SINCE APR 03, 1977).

RECORDS AVAILABLE 1977-1978, 1987 TO CURRENT YEAR.
HIGHEST WATER LEVEL 212.94 FEET BELOW LAND SURFACE DATUM MAR 28, 1997.
LOWEST WATER LEVEL 235.84 FEET BELOW LAND SURFACE DATUM MAR 21, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 29	225.10	JAN 29	225.47	MAR 29	227.92	MAY 23	221.70	JUL 23	224.84	SEP 28	227.38

STATION NAME 51N 05W 33BCD1 SITE NUMBER 474329116582801

DUG UNUSED IRRIGATION WELL IN FLUVIOGLACIAL GRAVEL OF QUATERNARY AGE, DIAM 28 IN, DEPTH 190 FT, CASED TO 190 FT, SLOTTED CASING. LATITUDE 47°43'29", LONGITUDE 116°58'28". LSD 2,141.58 FT ABOVE SEA LEVEL. NOV 23, 1993, WELL DEPTH SOUNDED AT 180 FT. MP NO. 1 EDGE OF 6-IN CASING, 1.65 FT ABOVE LSD (SINCE MAR 11, 1977).

RECORDS AVAILABLE 1977 TO CURRENT YEAR.
HIGHEST WATER LEVEL 133.80 FEET BELOW LAND SURFACE DATUM MAY 27, 1997.
LOWEST WATER LEVEL 164.53 FEET BELOW LAND SURFACE DATUM SEP 21, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 23	146.25	DEC 22	148.66	FEB 26	151.47	APR 25	152.44	JUN 21	152.69	AUG 22	154.57
NOV 29	147.49	JAN 29	150.65	MAR 29	152.52	MAY 23	151.80	JUL 23	153.64	SEP 28	155.10



LATAH COUNTY

STATION NAME 39N 06W 12DAA1 SITE NUMBER 464407117012601

DRILLED PUBLIC SUPPLY ARTESIAN WELL IN COLUMBIA RIVER BASALT, DIAM 26 TO 10 IN, DEPTH 747 FT, 26-IN CASING TO 17 FT, 20-IN CASING 0-505 FT, UNKNOWN DIAM CASING 474-534 FT, 10-IN CASING 511-671 FT. LATITUDE 46°44'07", LONGITUDE 117°01'26". LSD ABOUT 2,538 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 1.13 FT ABOVE LSD (SINCE MAR 14, 1985).

RECORDS AVAILABLE 1985, 1987 TO CURRENT YEAR.
HIGHEST WATER LEVEL 282.41 FEET BELOW LAND SURFACE DATUM MAR 14, 1985.
LOWEST WATER LEVEL 304.10 FEET BELOW LAND SURFACE DATUM JUL 24, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

APR 24	300.82	MAY 14	301.17	JUN 18	302.38	JUL 24	304.10	AUG 27	313.99P	SEP 19	302.45

STATION NAME 39N 05W 05BBB2 SITE NUMBER 464531116595601

DRILLED DOMESTIC WATER-TABLE WELL IN LATAH FORMATION, DIAM 6 IN, DEPTH 118 FT, CASED TO 118 FT. LATITUDE 46°45'31", LONGITUDE 116°59'56". LSD ABOUT 2,705 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE, 1.45 FT ABOVE LSD (SINCE MAR 13, 1985).

RECORDS AVAILABLE 1972, 1985, 1987 TO CURRENT YEAR.
HIGHEST WATER LEVEL 50.20 FEET BELOW LAND SURFACE DATUM MAR 24, 1999.
LOWEST WATER LEVEL 56.59 FEET BELOW LAND SURFACE DATUM SEP 30, 1988.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 12	51.72	MAY 14	52.34	JUL 24	51.92	SEP 19	52.93
APR 25	51.25	JUN 18	51.59	AUG 27	52.62		

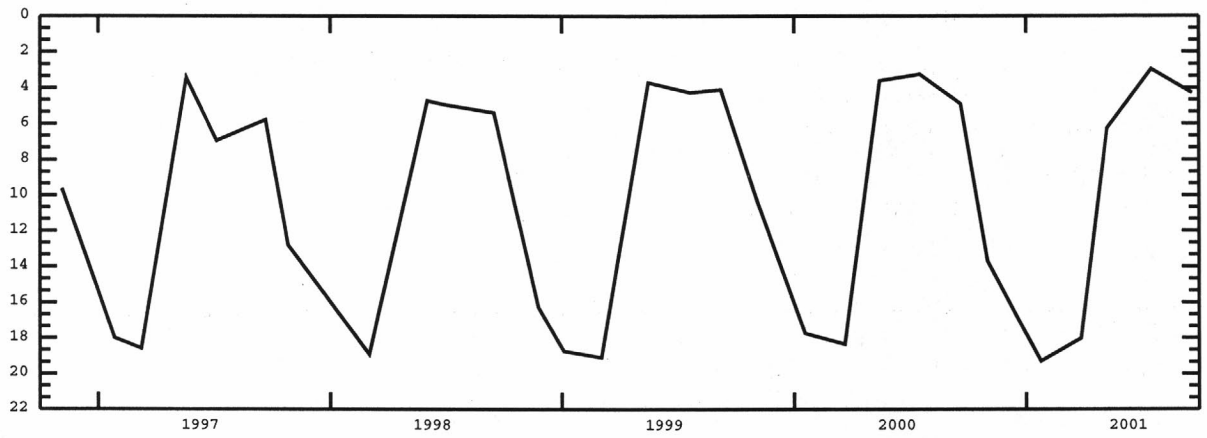
STATION NAME 21N 22E 15BAC1 SITE NUMBER 450915113504501

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 37 FT, CASED TO 36 FT, PERFORATED 26-34 FT. LATITUDE 45°09'15", LONGITUDE 113°50'45". LSD ABOUT 4,045 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 3/4-IN ACCESS HOLE SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE SEP 13, 1973).

RECORDS AVAILABLE 1973 TO CURRENT YEAR.
HIGHEST WATER LEVEL 2.68 FEET BELOW LAND SURFACE DATUM SEP 15, 1977.
LOWEST WATER LEVEL 19.99 FEET BELOW LAND SURFACE DATUM JAN 22, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 01	13.70	JAN 24	19.30	MAR 28	18.02	MAY 08	6.26	JUL 17	2.97	SEP 19	4.29



STATION NAME 21N 22E 31DAA1 SITE NUMBER 450620113533401

FORMERLY SITE NUMBER 450711113533401. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 33 FT, CASED TO 33 FT. LATITUDE 45°06'20", LONGITUDE 113°53'34". LSD ABOUT 4,030 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 1/4-IN BUSHING WEST SIDE, 0.60 FT ABOVE LSD (SINCE MAR 29, 1994).

RECORDS AVAILABLE 1973 TO SEP 16, 1998
HIGHEST WATER LEVEL 4.02 FEET BELOW LAND SURFACE DATUM JUN 30, 1998.
LOWEST WATER LEVEL 14.44 FEET BELOW LAND SURFACE DATUM MAR 01, 1975.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 01	7.00	JAN 25	8.71	MAR 28	8.00	MAY 09	7.94	JUL 17	5.67R	SEP 19	4.56R



STATION NAME 20N 23E 03CBA2 SITE NUMBER 450527113433501

DRILLED IRRIGATION WATER-TABLE WELL IN SEDIMENTS OF TERTIARY AGE, DIAM NOT AVAILABLE, DEPTH 142 FT, 8-IN CASING TO 19 FT, 8-IN PVC CASING 19-142 FT, PERFORATED 19-142 FT. LATITUDE 45°05'27", LONGITUDE 113°43'35". LSD ABOUT 4,404 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 2.00 FT ABOVE LSD (SINCE JUN 27, 1991).

RECORDS AVAILABLE 1991 TO CURRENT YEAR.
HIGHEST WATER LEVEL .01 FEET BELOW LAND SURFACE DATUM JUL 22, 1999.
LOWEST WATER LEVEL 39.44 FEET BELOW LAND SURFACE DATUM SEP 19, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 01	12.00	JAN 24	11.34P	MAR 28	10.28	MAY 08	3.50	JUL 17	33.78P	SEP 19	6.15

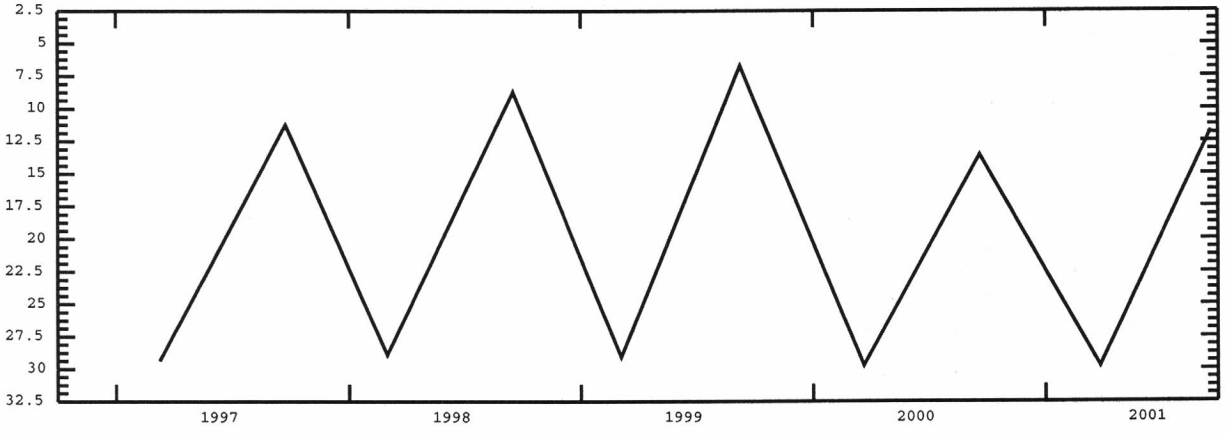
STATION NAME 18N 24E 20DDA1 SITE NUMBER 445212113374501

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 39.7 FT, CASED TO 39.7 FT. LATITUDE 44°52'12", LONGITUDE 113°37'45". LSD ABOUT 5,170 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF 3/8-IN PIPE NORTHEAST SIDE, 0.85 FT ABOVE LSD (SINCE MAY 23, 1996).

RECORDS AVAILABLE 1975 TO CURRENT YEAR.
HIGHEST WATER LEVEL 4.07 FEET BELOW LAND SURFACE DATUM MAY 11, 1994.
LOWEST WATER LEVEL 29.79 FEET BELOW LAND SURFACE DATUM MAR 28, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 28	29.79	SEP 19	11.72



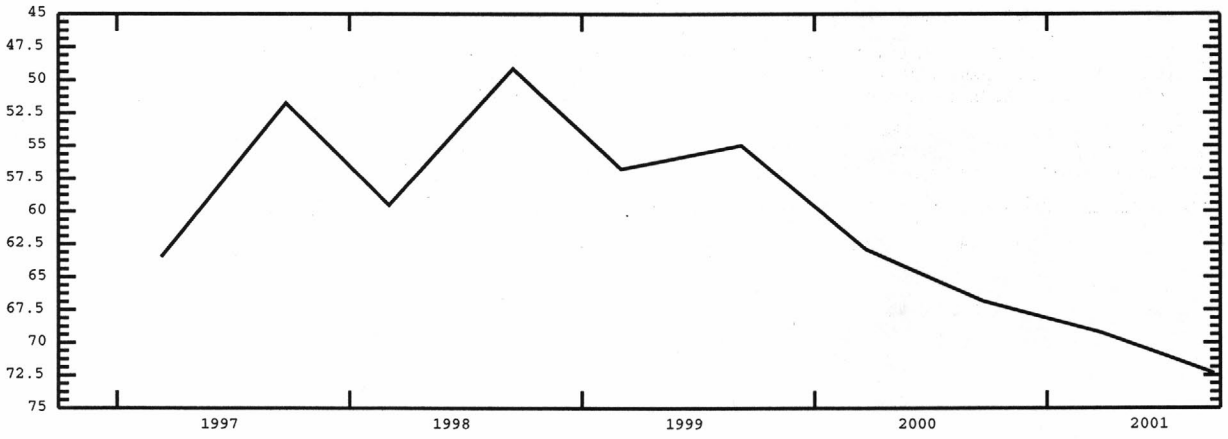
STATION NAME 14N 22E 35BBD1 SITE NUMBER 443017113493001

DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 16 IN, DEPTH 249.4 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 44°30'17", LONGITUDE 113°49'30". LSD ABOUT 5,291 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING NORTH SIDE, 1.00 FT ABOVE LSD (SINCE MAY 25, 1971).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.
HIGHEST WATER LEVEL 22.79 FEET BELOW LAND SURFACE DATUM SEP 11, 1984.
LOWEST WATER LEVEL 72.36 FEET BELOW LAND SURFACE DATUM SEP 20, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 28 69.25 SEP 20 72.36



STATION NAME 34N 02W 31ACD1 SITE NUMBER 461444116372901

DRILLED DOMESTIC ARTESIAN WELL IN COLUMBIA RIVER BASALT GROUP, DIAM 8 TO 6 IN, DEPTH 363 FT, 6-IN CASING TO 80 FT. LATITUDE 46°14'44", LONGITUDE 116°37'29". LSD ABOUT 3,990 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 1.00 FT ABOVE LSD (SINCE SEP 29, 1988).

RECORDS AVAILABLE 1988 TO CURRENT YEAR.
HIGHEST WATER LEVEL 39.33 FEET BELOW LAND SURFACE DATUM JUL 16, 1997.
LOWEST WATER LEVEL 75.22 FEET BELOW LAND SURFACE DATUM NOV 22, 1988.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 13 54.82 MAY 14 54.14P JUL 25 57.59R SEP 19 55.73

STATION NAME 34N 01E 25ADC1 SITE NUMBER 461538116160401

DRILLED DOMESTIC ARTESIAN WELL IN COLUMBIA RIVER BASALT GROUP, DIAM 9 IN, DEPTH 230 FT, 6-IN CASING TO 19 FT, 4-IN PVC CASING 15-230 FT, PERFORATED 125-213 FT. LATITUDE 46°15'38", LONGITUDE 116°16'04". LSD ABOUT 3,210 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING WEST SIDE, 1.30 FT ABOVE LSD (SINCE MAR 21, 1985).

RECORDS AVAILABLE 1985, 1988 TO CURRENT YEAR.
HIGHEST WATER LEVEL 49.08 FEET BELOW LAND SURFACE DATUM SEP 03, 1999.
LOWEST WATER LEVEL 83.60 FEET BELOW LAND SURFACE DATUM MAY 14, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 30 55.07 JAN 24 55.23 MAR 13 56.05 MAY 14 56.17 JUL 25 56.88 SEP 19 56.63

NEZ PERCE COUNTY

STATION NAME 35N 05W 02CDC1 SITE NUMBER 462401116555201

DRILLED DOMESTIC ARTESIAN WELL IN COLUMBIA RIVER BASALT, DIAM 8 TO 6 IN, DEPTH 240 FT, 8-IN CASING TO 23 FT, 6-IN PVC CASING 4.35-240 FT, PERFORATED 180-223 FT. LATITUDE 46°24'01", LONGITUDE 116°55'52". LSD ABOUT 1,400 FT ABOVE SEA LEVEL. RECORDER INSTALLED JUL 8, 1992 TO JUN 28, 1993. MP NO. 1 EDGE OF CASING SOUTH SIDE, 1.25 FT ABOVE LSD (SINCE JUL 07, 1992).

RECORDS AVAILABLE 1992 TO CURRENT YEAR.
HIGHEST WATER LEVEL 116.08 FEET BELOW LAND SURFACE DATUM MAY 25, 1993.
LOWEST WATER LEVEL 176.78 FEET BELOW LAND SURFACE DATUM NOV 17, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	151.84	DEC 11	136.90R	FEB 25	122.45	APR 24	169.17R	JUN 18	123.60R	AUG 28	156.33
NOV 29	134.11	JAN 25	125.35	MAR 13	122.29	MAY 14	161.30P	JUL 25	134.07R	SEP 19	162.51R

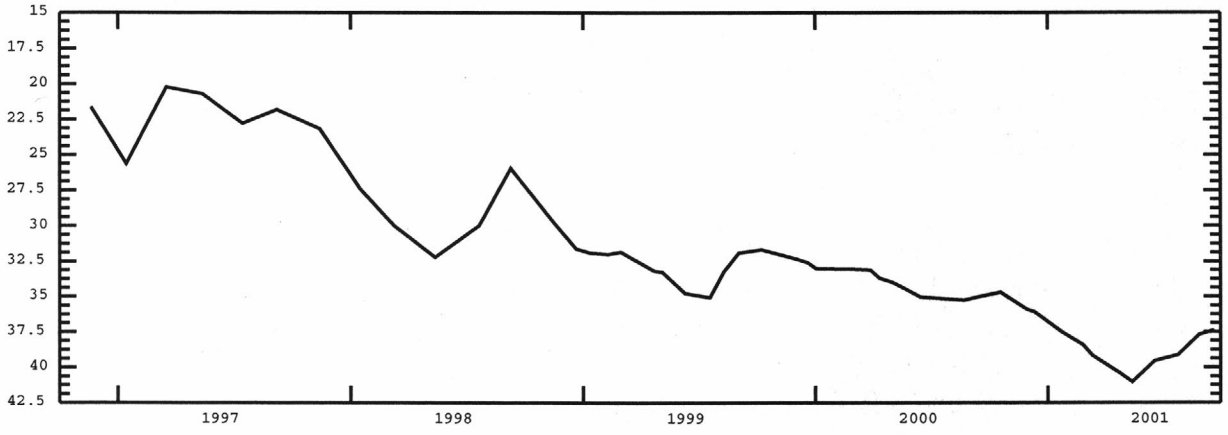
STATION NAME 35N 05W 16DAC1 SITE NUMBER 462225116575101

DRILLED UNUSED WATER-TABLE WELL IN COLUMBIA RIVER GROUP, DIAM 8 IN, REPORTED DEPTH 383 FT, CASED TO 136 FT. LATITUDE 46°22'25", LONGITUDE 116°57'51". LSD ABOUT 1,500 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 1 1/2-IN PIPE, 0.77 FT ABOVE LSD (SINCE FEB 24, 1989).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.
HIGHEST WATER LEVEL 13.05 FEET BELOW LAND SURFACE DATUM SEP 13, 1970.
LOWEST WATER LEVEL 47.31 FEET BELOW LAND SURFACE DATUM MAR 18, 1993.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 18	34.72	DEC 11	36.11	FEB 25	38.42	APR 24	40.42	JUN 18	39.55	AUG 27	37.69
NOV 29	35.92	JAN 24	37.54	MAR 12	39.18	MAY 14	41.03	JUL 25	39.14	SEP 19	37.37



STATION NAME 35N 05W 25ADD1 SITE NUMBER 462056116535201

DRILLED DOMESTIC ARTESIAN WELL IN COLUMBIA RIVER BASALT, DIAM 10 TO 8 IN, DEPTH 585 FT, 10-IN CASING TO 34 FT, 8-IN CASING TO 333 FT. LATITUDE 46°20'56", LONGITUDE 116°53'52". LSD ABOUT 1,530 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 3/4-IN ACCESS HOLE IN WELL CAP, 3.90 FT ABOVE LSD (SINCE MAR 12, 1985).

RECORDS AVAILABLE 1985, 1990-1991, 1999 TO CURRENT YEAR.
HIGHEST WATER LEVEL 196.92 FEET BELOW LAND SURFACE DATUM MAR 12, 1985.
LOWEST WATER LEVEL 322.35 FEET BELOW LAND SURFACE DATUM SEP 19, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 19	305.28R	DEC 11	302.77R	FEB 25	294.92	APR 24	295.32	JUN 20	299.74	AUG 28	317.68
NOV 29	296.90R	JAN 25	294.47R	MAR 13	299.34	MAY 14	296.14R	JUL 25	314.21	SEP 19	322.35

OWYHEE COUNTY

STATION NAME 03N 04W 30AAB1 SITE NUMBER 433423116511401

DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 12 IN, REPORTED DEPTH 200 FT, CASED TO 135 FT, PERFORATED 63-71 FT. LATITUDE 43°34'23", LONGITUDE 116°51'14". LSD ABOUT 2,305 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE IN PUMPBASE, 1.00 FT ABOVE LSD (SINCE SEP 16, 1977).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 53.04 FEET BELOW LAND SURFACE DATUM JAN 03, 1967.
LOWEST WATER LEVEL 60.68 FEET BELOW LAND SURFACE DATUM MAR 24, 1999.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 27 60.68R SEP 19 58.95R

STATION NAME 01N 03W 06DDC1 SITE NUMBER 432640116440701

DRILLED DOMESTIC GEOTHERMAL ARTESIAN WELL IN IDAHO GROUP, DIAM 8 TO 6 IN, DEPTH 560 FT, 8-IN CASING TO 33 FT, 6-IN CASING 0-415.5 FT. LATITUDE 43°26'40", LONGITUDE 116°44'07". LSD ABOUT 2,240 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF WOODEN BENCH IN WELL SHELTER, 1.25 FT ABOVE LSD (SINCE JAN 05, 1995).

RECORDS AVAILABLE 1979-1980, 1995 TO CURRENT YEAR.
HIGHEST WATER LEVEL +23.22 FEET ABOVE LAND SURFACE DATUM MAR 12, 1980.
LOWEST WATER LEVEL +17.80 FEET ABOVE LAND SURFACE DATUM MAR 27, 2001.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 30 +19.81 FEB 01 +19.35 MAR 27 +17.80 MAY 25 +19.27 JUL 26 +19.17 SEP 19 +19.17

STATION NAME 01S 03W 01BBC1 SITE NUMBER 432208116385701

FORMERLY STATION NAME 01S 03W 01BCB1. DRILLED IRRIGATION ARTESIAN WELL IN UNKNOWN AQUIFER, DIAM 3 IN, REPORTED DEPTH 1,800 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°22'08", LONGITUDE 116°38'57". LSD ABOUT 2,290 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 2 1/2-IN HORIZONTAL PIPE, 2.50 FT ABOVE LSD (SINCE MAY 29, 1984).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL +10.62 FEET ABOVE LAND SURFACE DATUM NOV 25, 1970.
LOWEST WATER LEVEL +2.31 FEET ABOVE LAND SURFACE DATUM MAR 27, 1991.

WATER LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 27 +2.70 SEP 19 +3.53

STATION NAME 04S 01E 30BBB1 SITE NUMBER 430310116233601

FORMERLY SITE NUMBER 430312116233701. DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 10 IN, DEPTH 320 FT, CASED TO 32 FT. LATITUDE 43°03'10", LONGITUDE 116°23'36". LSD ABOUT 2,803 FT ABOVE SEA LEVEL. MP NO. 2 TOP OF ACCESS HOLE IN PUMPBASE EAST SIDE, 0.20 FT ABOVE LSD (SINCE MAR 20, 1985).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 31.21 FEET BELOW LAND SURFACE DATUM MAR 12, 1970.
LOWEST WATER LEVEL 114.84 FEET BELOW LAND SURFACE DATUM SEP 19, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 27 48.02R SEP 19 114.84

STATION NAME 05S 01E 20DAD1 SITE NUMBER 425816116211701

FORMERLY SITE NUMBER 425807116211501, STATION NAME 05S 01E 20DDD1. DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP DIAM 10 IN, DEPTH 666 FT, CASED TO 74 FT. LATITUDE 42°58'16", LONGITUDE 116°21'17". LSD ABOUT 2,799 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE EAST SIDE, 1.50 FT ABOVE LSD (SINCE MAY 13, 1971).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 15.70 FEET BELOW LAND SURFACE DATUM MAR 17, 1974.
LOWEST WATER LEVEL 58.20 FEET BELOW LAND SURFACE DATUM SEP 12, 1968.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 27 41.62 SEP 19 50.84

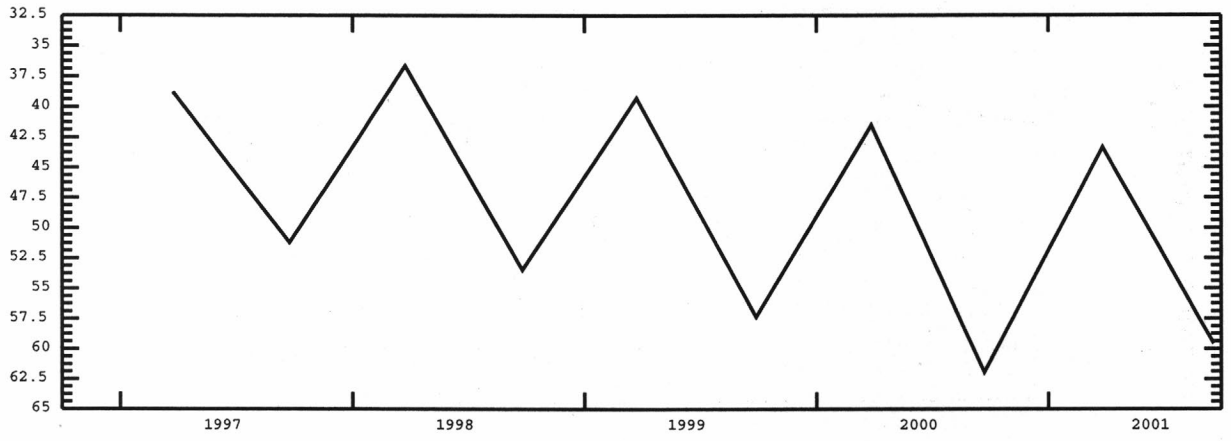
STATION NAME 06S 03E 14BCB1 SITE NUMBER 425414116043301

DRILLED UNUSED ARTESIAN WELL IN IDAHO GROUP, DIAM 4 IN, DEPTH 1,342 FT, CASED TO 373 FT. LATITUDE 42°54'14", LONGITUDE 116°04'33". LSD ABOUT 2,643 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 26, 1967 TO NOV 16, 1971, JUL 07, 1977 TO JUL 30, 1986. MP NO. 4 EDGE OF CASING SOUTH SIDE, 0.10 FT ABOVE LSD (SINCE JUL 14, 1971).

RECORDS AVAILABLE 1953 TO CURRENT YEAR.
HIGHEST WATER LEVEL +4.90 FEET ABOVE LAND SURFACE DATUM APR 28, 1958.
LOWEST WATER LEVEL 64.97 FEET BELOW LAND SURFACE DATUM OCT 07, 1977.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

MAR 27 43.36 SEP 18 59.56



STATION NAME 06S 04E 14ABC1 SITE NUMBER 425425115563801

DRILLED IRRIGATION ARTESIAN WELL IN IDAVADA VOLCANICS, DIAM 15 IN, DEPTH 1,905 FT, CASED TO 1,600 FT. LATITUDE 42°54'25", LONGITUDE 115°56'38". LSD ABOUT 2,665 FT ABOVE SEA LEVEL. MP NO. 4 BOTTOM EDGE OF 9/16-IN ACCESS HOLE IN SOUTH SIDE OF CASING, 2.61 FT BELOW LSD (SINCE MAY 11, 1982).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 6.09 FEET BELOW LAND SURFACE DATUM APR 26, 1967.
LOWEST WATER LEVEL 164.91 FEET BELOW LAND SURFACE DATUM JUL 22, 1998.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 30 77.42 JAN 31 54.37 MAR 27 108.66P MAY 25 145.49P JUL 26 110.36 SEP 18 167.05P

STATION NAME 06S 05E 33DBB1 SITE NUMBER 425127115515501

DRILLED DOMESTIC WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 6 IN, REPORTED DEPTH 142 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°51'27", LONGITUDE 115°51'55". LSD ABOUT 2,540 FT ABOVE SEA LEVEL. MP NO. 3 EDGE OF CASING, 0.65 FT ABOVE LSD (SINCE SEP 16, 1981).

RECORDS AVAILABLE 1953, 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 2.78 FEET BELOW LAND SURFACE DATUM FEB 08, 1967.
LOWEST WATER LEVEL 35.64 FEET BELOW LAND SURFACE DATUM SEP 19, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 30 13.14 JAN 31 8.48 MAR 27 7.08 MAY 25 23.71 JUL 26 25.85 SEP 18 29.88

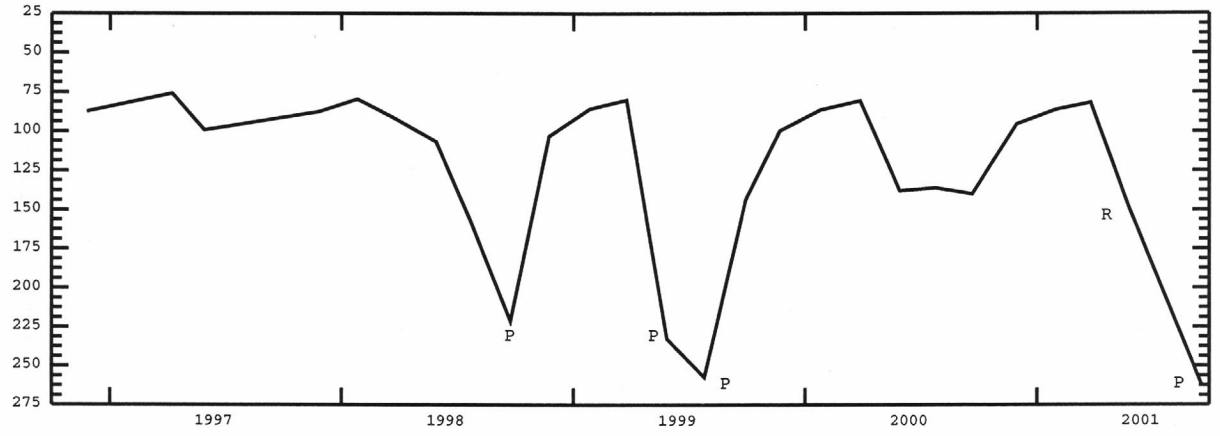
STATION NAME 06S 05E 35CBD1 SITE NUMBER 425117115495501

DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 25 IN, DEPTH 476 FT, CASED TO 230.5 FT, SCREENED 230-350 FT. LATITUDE 42°51'20", LONGITUDE 115°49'55". LSD ABOUT 2,612 FT ABOVE SEA LEVEL. MP NO. 1 BOTTOM OF 1/2-IN ACCESS HOLE OUTSIDE PUMPBASE EAST SIDE, 1.00 FT ABOVE LSD (SINCE AUG 16, 1985).

RECORDS AVAILABLE 1980-1981, 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 67.69 FEET BELOW LAND SURFACE DATUM APR 12, 1988.
LOWEST WATER LEVEL 153.16 FEET BELOW LAND SURFACE DATUM JUL 26, 1996.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 30 95.56 JAN 31 86.26 MAR 27 81.84 MAY 25 147.74R SEP 18 262.74P



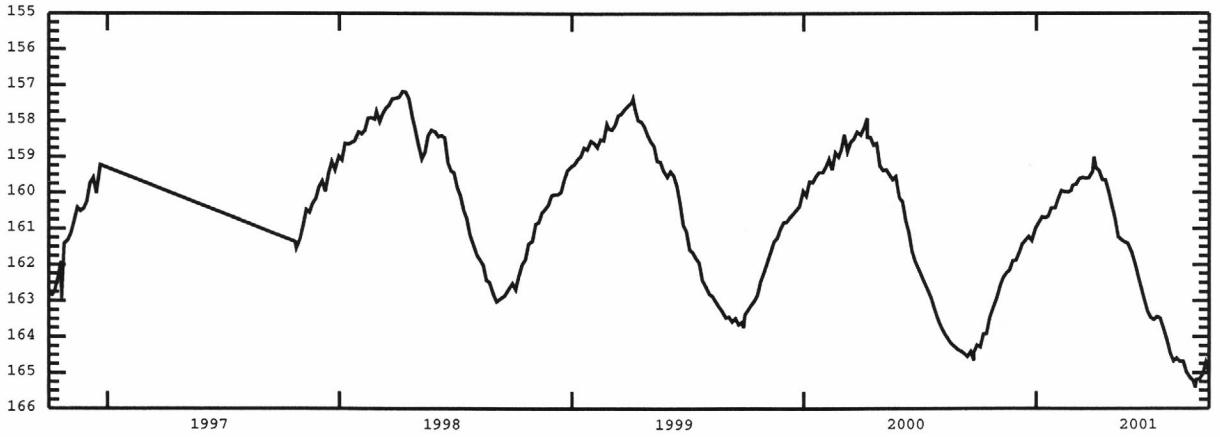
STATION NAME 07S 06E 29BBA1 SITE NUMBER 424734115462801

DRILLED OBSERVATION GEOTHERMAL ARTESIAN WELL IN BANBURY BASALT, DIAM 14 TO 6 IN, DEPTH 760 FT, 12-IN CASING TO 39.5 FT, 10-IN CASING 0-246.4 FT, 6-IN CASING 0-414.8 FT. LATITUDE 42°47'34", LONGITUDE 115°46'28". LSD 2,832.48 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 23, 1990 TO DEC 23, 1996, RECORDER INSTALLED OCT 23, 1997. MP NO. 1 EDGE OF 6-IN CASING SOUTHEAST SIDE, 1.00 FT ABOVE LSD (SINCE MAY 23, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 155.02 FEET BELOW LAND SURFACE DATUM MAR 25, 1991.
LOWEST WATER LEVEL 165.41 FEET BELOW LAND SURFACE DATUM SEP 08, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 05	164.28	DEC 10	161.42	FEB 15	159.98	APR 15	159.64	JUN 20	162.96	AUG 25	164.98
10	163.92	15	161.32	20	159.99	20	159.65	25	163.29	31	165.14
15	163.91	20	161.22	25	159.95	25	159.98	30	163.47	SEP 05	165.23
20	163.48	25	161.33	28	159.80	30	160.37	JUL 05	163.53	08	165.41
25	163.21	31	160.98	MAR 05	159.77	MAY 05	160.74	10	163.45	10	165.19
31	162.92	JAN 05	160.83	10	159.62	10	161.23	15	163.49	15	165.18
NOV 05	162.60	10	160.68	15	159.58	15	161.31	20	163.76	20	165.04
10	162.36	15	160.70	20	159.60	20	161.37	25	164.05	25	164.72
15	162.23	20	160.66	25	159.59	25	161.41	31	164.47	30	165.01
20	162.15	25	160.43	31	159.41	31	161.65	AUG 05	164.68		
25	161.89	31	160.43	APR 02	159.01	JUN 05	161.95	10	164.60		
30	161.88	FEB 05	160.17	05	159.31	10	162.30	15	164.69		
DEC 05	161.67	10	159.95	10	159.39	15	162.63	20	164.69		



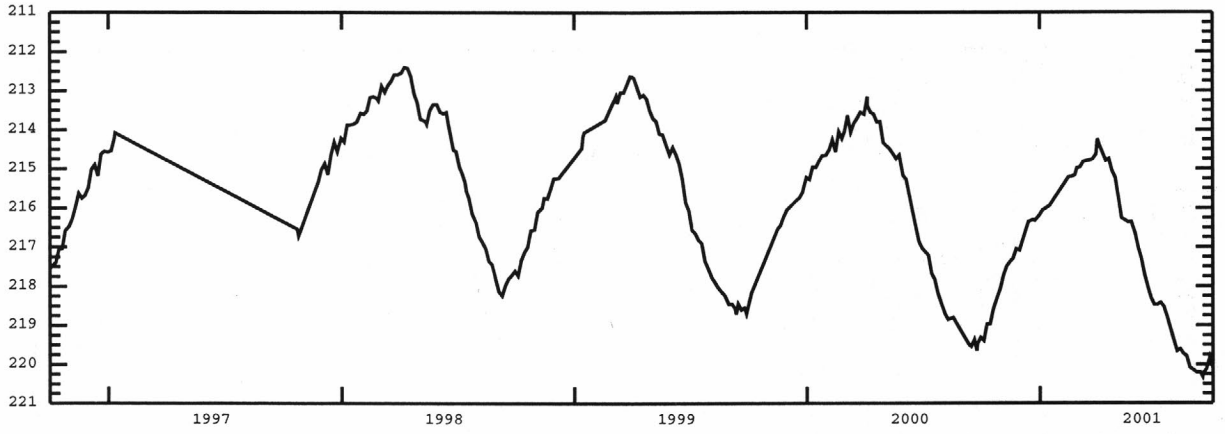
STATION NAME 07S 06E 34BCA1 SITE NUMBER 424620115440301

DRILLED OBSERVATION GEOTHERMAL ARTESIAN WELL IN BANBURY BASALT, DIAM 14 TO 6 IN, DEPTH 681 FT, 12-IN CASING TO 10 FT, 10-IN CASING 0-104.4 FT, 6-IN CASING 0-322.3 FT. LATITUDE 42°46'31", LONGITUDE 115°44'03". LSD 2,889.54 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 26, 1990 TO DEC 23, 1996, RECORDER INSTALLED OCT 23, 1997. MP NO. 1 EDGE OF 6-IN CASING, 0.70 FT ABOVE LSD (SINCE APR 26, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 210.23 FEET BELOW LAND SURFACE DATUM MAR 25, 1991.
LOWEST WATER LEVEL 220.32 FEET BELOW LAND SURFACE DATUM SEP 14, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 05	219.39	NOV 30	217.08	MAR 05	214.96	APR 25	215.06	JUN 25	218.29	AUG 31	220.15
10	218.97	DEC 14	216.35	10	214.82	30	215.23	30	218.47	SEP 05	220.21
15	218.96	21	216.30	15	214.80	MAY 10	216.26	JUL 05	218.47	10	220.20
20	218.58	24	216.32	20	214.78	15	216.31	10	218.42	14	220.32
25	218.33	31	216.19	25	214.76	20	216.36	15	218.52	15	220.23
31	218.06	JAN 05	216.06	31	214.63	25	216.35	20	218.76	20	220.12
NOV 05	217.72	16	215.94	APR 02	214.24	31	216.65	AUG 05	219.66	25	219.82
10	217.49	FEB 15	215.21	05	214.39	JUN 05	217.02	10	219.61	30	220.11
15	217.38	20	215.20	10	214.59	10	217.30	15	219.73		
20	217.29	25	215.16	15	214.79	15	217.70	20	219.79		
25	217.05	28	214.98	20	214.75	20	218.01	25	220.08		



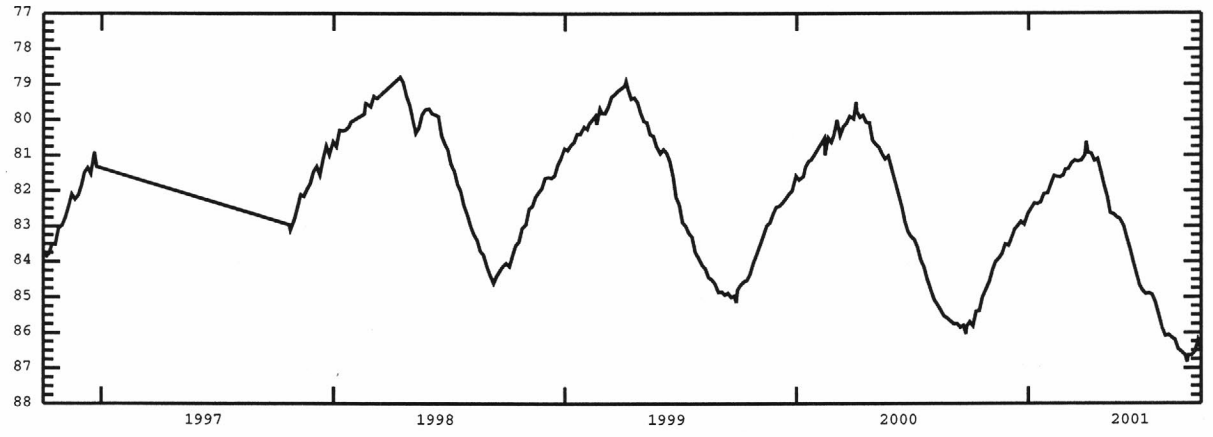
STATION NAME 08S 06E 03BDC1 SITE NUMBER 424540115442201

DRILLED OBSERVATION GEOTHERMAL ARTESIAN WELL IN BANBURY BASALT, DIAM 12 TO 6 IN, DEPTH 480 FT, 10-IN CASING TO 94 94 FT, 6-IN CASING 0-194.3 FT. LATITUDE 42°45'40", LONGITUDE 115°44'22". LSD 2,754.62 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 01, 1990 TO DEC 23, 1996. RECORDER INSTALLED OCT 23, 1997. MP NO. 1 EDGE OF 6-IN CASING NORTH SIDE, 0.76 FT ABOVE LSD (SINCE APR 01, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 76.08 FEET BELOW LAND SURFACE DATUM APR 01, 1990.
LOWEST WATER LEVEL 86.83 FEET BELOW LAND SURFACE DATUM SEP 08, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 05	85.81	DEC 10	83.09	FEB 15	81.60	APR 15	81.15	JUN 20	84.33	AUG 25	86.46
10	85.40	15	82.99	20	81.61	20	81.10	25	84.66	31	86.55
15	85.39	20	82.87	25	81.56	25	81.45	30	84.82	SEP 05	86.64
20	85.00	25	82.95	28	81.40	30	81.83	JUL 05	84.91	08	86.83
25	84.80	31	82.64	MAR 05	81.38	MAY 05	82.16	10	84.89	10	86.64
31	84.56	JAN 05	82.50	10	81.22	10	82.63	15	84.93	15	86.64
NOV 05	84.24	10	82.35	15	81.15	15	82.66	20	85.15	20	86.55
10	84.00	15	82.37	20	81.17	20	82.75	25	85.48	25	86.22
15	83.91	20	82.32	25	81.15	25	82.80	31	85.88	30	86.50
20	83.78	25	82.09	31	81.00	31	82.99	AUG 05	86.09		
25	83.51	31	82.07	APR 02	80.62	JUN 05	83.33	10	86.06		
30	83.55	FEB 05	81.82	05	80.93	10	83.64	15	86.14		
DEC 05	83.33	10	81.58	10	80.95	15	84.00	20	86.20		



OWYHEE COUNTY--continued

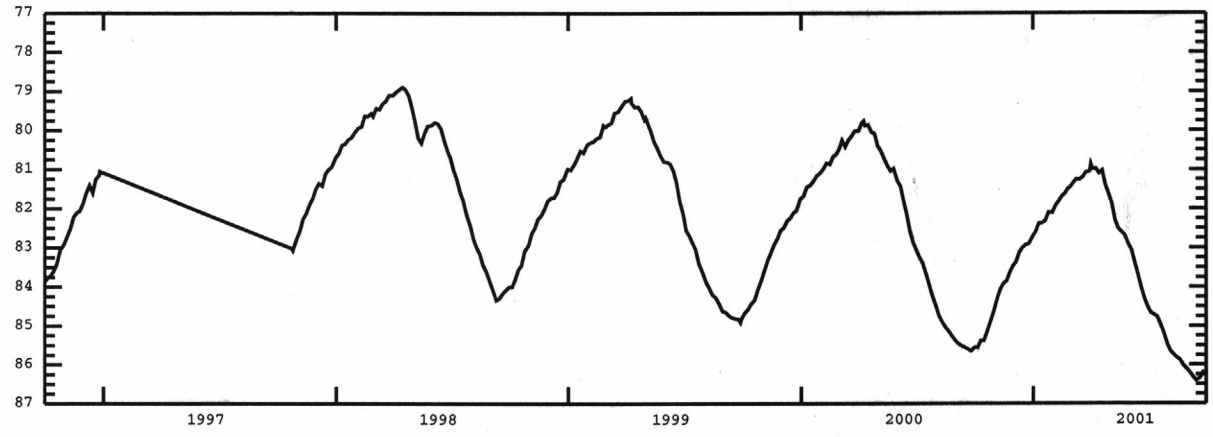
STATION NAME 08S 06E 03BDC2 SITE NUMBER 424540115442202

DRILLED OBSERVATION GEOTHERMAL ARTESIAN WELL IN BANBURY BASALT, DIAM 10 IN, DEPTH 90.4 FT, 6-IN CASING TO 90.4 FT, PERFORATED 80.4-90.4 FT. LATITUDE 42°45'40", LONGITUDE 115°44'22". LSD 2,754.31 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 04, 1990 TO DEC 23, 1996, RECORDER INSTALLED OCT 23, 1997. MP NO. 1 EDGE OF 6-IN CASING, 0.90 FT ABOVE LSD (SINCE APR 04, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 76.59 FEET BELOW LAND SURFACE DATUM APR 04, 1990.
LOWEST WATER LEVEL 85.65 FEET BELOW LAND SURFACE DATUM SEP 24, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 05	85.56	DEC 10	83.12	FEB 20	81.62	APR 20	81.03	JUN 25	84.29	AUG 31	86.12
10	85.38	15	83.00	25	81.49	25	81.41	30	84.50	SEP 05	86.22
15	85.38	20	82.93	28	81.46	30	81.63	JUL 05	84.66	10	86.33
20	85.15	25	82.90	MAR 05	81.35	MAY 05	81.88	10	84.71	14	86.40
25	84.91	31	82.72	10	81.25	10	82.30	15	84.76	15	86.39
31	84.60	JAN 05	82.59	15	81.26	15	82.51	20	84.95	20	86.35
NOV 05	84.30	10	82.38	20	81.20	20	82.60	25	85.16	25	86.20
10	84.06	15	82.37	25	81.08	25	82.68	31	85.47	30	86.24
15	83.91	20	82.31	31	81.05	31	82.92	AUG 05	85.65		
20	83.85	25	82.10	APR 02	80.86	JUN 05	83.07	10	85.74		
25	83.64	31	82.11	05	80.99	10	83.40	15	85.82		
30	83.47	FEB 05	81.93	10	80.98	15	83.70	20	85.88		
DEC 05	83.36	15	81.70	15	81.10	20	84.01	25	86.02		



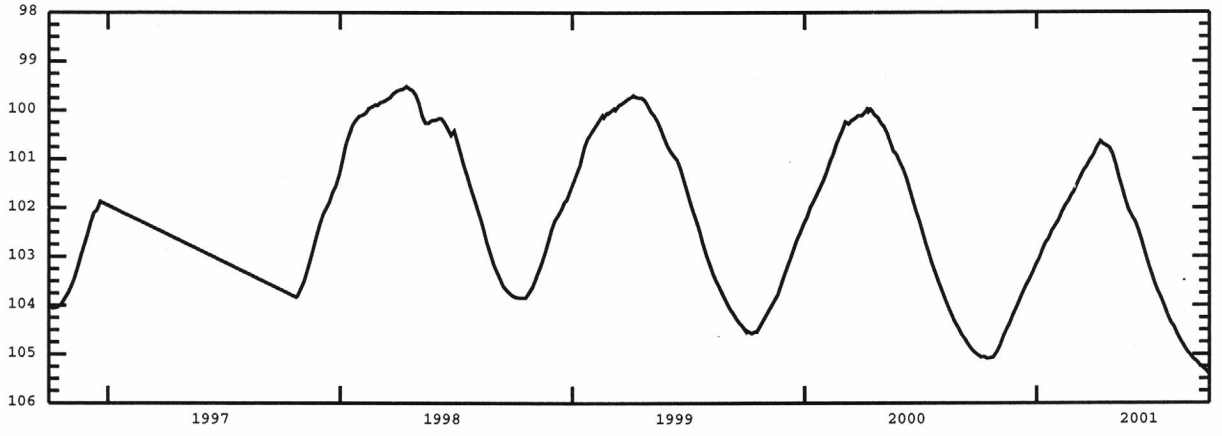
STATION NAME 08S 06E 03BDC3 SITE NUMBER 424540115442203

DRILLED OBSERVATION GEOTHERMAL ARTESIAN WELL IN BANBURY BASALT, DIAM 10 IN, DEPTH 140 FT, 6-IN CASING TO 140 FT PERFORATED 120-140 FT. LATITUDE 42°45'40", LONGITUDE 115°44'22". LSD 2,754.17 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 04, 1990 TO DEC 23, 1996, RECORDER INSTALLED OCT 23, 1997. MP NO. 1 EDGE OF 6-IN CASING, 1.25 FT ABOVE LSD (SINCE APR 04, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 99.31 FEET BELOW LAND SURFACE DATUM APR 15, 1991.
LOWEST WATER LEVEL 105.01 FEET BELOW LAND SURFACE DATUM SEP 30, 2000.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 05	105.06	DEC 05	103.90	FEB 05	102.24	APR 10	100.67	JUN 10	102.47	AUG 10	104.59
10	105.05	10	103.74	10	102.08	11	100.64	15	102.68	15	104.71
15	105.09	15	103.60	15	101.95	15	100.69	20	102.91	20	104.82
20	105.08	20	103.48	20	101.86	25	100.77	25	103.13	25	104.93
25	105.06	25	103.35	25	101.73	30	100.90	30	103.33	31	105.02
31	104.94	31	103.16	28	101.68	MAY 05	101.11	JUL 05	103.53	SEP 05	105.10
NOV 05	104.81	JAN 05	103.04	MAR 05	101.53	10	101.38	10	103.70	10	105.15
10	104.63	10	102.87	15	101.25	15	101.60	15	103.83	15	105.23
15	104.49	15	102.72	20	101.16	20	101.83	20	103.99	20	105.28
20	104.36	20	102.63	25	101.04	25	102.03	25	104.17	25	105.34
25	104.19	25	102.47	31	100.92	31	102.18	31	104.35	30	105.42
30	104.05	31	102.35	APR 05	100.77	JUN 05	102.29	AUG 05	104.44	30	105.42



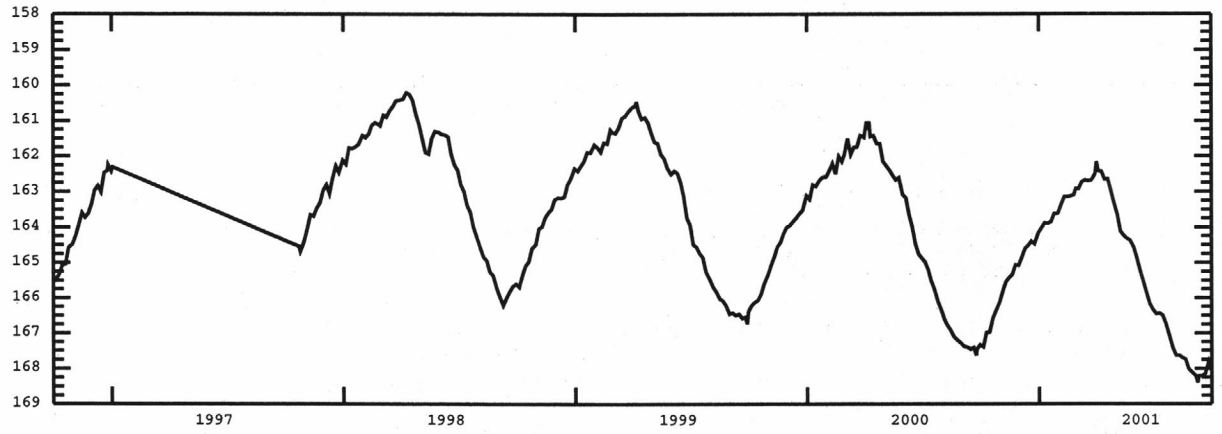
STATION NAME 08S 06E 04DCD1 SITE NUMBER 424523115451201

DRILLED OBSERVATION WELL IN BANBURY BASALT, DIAM 12 TO 5.5 IN, DEPTH 600 FT, 10-IN CASING TO 104.8 FT, 6-IN CASING 0-170 FT. LATITUDE 42°45'23", LONGITUDE 115°45'12". LSD 2,837.67 FT ABOVE SEA LEVEL. RECORDER INSTALLED APR 14, 1990 TO DEC 23, 1996, RECORDER INSTALLED OCT 23, 1997. REAL TIME TELEMETRY INSTALLED JUN 14, 2001. MP NO. 1 EDGE OF CASING SOUTH SIDE, 0.90 FT ABOVE LSD (SINCE APR 14, 1990).

RECORDS AVAILABLE 1990 TO CURRENT YEAR.
HIGHEST WATER LEVEL 158.06 FEET BELOW LAND SURFACE DATUM MAR 25, 1991.
LOWEST WATER LEVEL 168.40 FEET BELOW LAND SURFACE DATUM SEP 08, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 05	167.39	DEC 10	164.61	FEB 15	163.14	APR 15	162.66	JUN 20	165.86	AUG 25	168.01
10	166.98	15	164.52	20	163.12	20	162.65	25	166.17	31	168.12
15	166.97	20	164.40	25	163.09	25	162.97	30	166.34	SEP 05	168.21
20	166.59	25	164.47	28	162.92	30	163.33	JUL 05	166.46	08	168.40
25	166.37	31	164.16	MAR 05	162.92	MAY 05	163.65	10	166.44	10	168.21
31	166.12	JAN 05	164.02	10	162.73	10	164.12	15	166.50	15	168.21
NOV 06	165.75	10	163.88	15	162.68	15	164.24	20	166.73	20	168.14
10	165.54	15	163.89	20	162.70	20	164.32	25	167.03	25	167.81
15	165.42	20	163.85	25	162.68	25	164.37	31	167.42	30	168.08
20	165.33	25	163.62	31	162.50	31	164.58	AUG 05	167.63		
25	165.06	31	163.61	APR 02	162.16	JUN 05	164.89	10	167.63		
30	165.07	FEB 05	163.36	05	162.42	10	165.24	15	167.70		
DEC 05	164.85	10	163.14	10	162.44	15	165.54	20	167.74		



STATION NAME 08S 11E 33BCD1 SITE NUMBER 424121115103601

FORMERLY SITE NUMBER 424119115105601, STATION NAME 08S 11E 33CBA1. DRILLED STOCK WATER-TABLE WELL IN IDAHO GROUP, DIAM 6 IN, DEPTH 290 FT, CASED TO 290 FT, PERFORATED 250-285 FT. LATITUDE 42°41'21", LONGITUDE 115°10'36". LSD ABOUT 3,168 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ACCESS HOLE, 1.30 FT ABOVE LSD (SINCE FEB 09, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 162.54 FEET BELOW LAND SURFACE DATUM SEP 08, 2000.
LOWEST WATER LEVEL 171.69 FEET BELOW LAND SURFACE DATUM FEB 09, 1967.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

APR 16 162.73 OCT 12 162.87

STATION NAME 09S 12E 29BBA1 SITE NUMBER 423719115044701

DRILLED IRRIGATION WELL IN UNKNOWN AQUIFER, DIAM 18 IN, REPORTED DEPTH BETWEEN 1,350-1,500 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 42°37'19", LONGITUDE 115°04'47". LSD ABOUT 3,605 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF 18-IN CASING EAST SIDE, 0.60 FT ABOVE LSD (SINCE JUL 11, 1985).

RECORDS AVAILABLE 1985 TO CURRENT YEAR.
HIGHEST WATER LEVEL 193.52 FEET BELOW LAND SURFACE DATUM MAR 05, 1997.
LOWEST WATER LEVEL 272.99 FEET BELOW LAND SURFACE DATUM AUG 11, 1986.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DEC 01 221.59 JAN 23 214.91 APR 16 208.73 JUN 01 233.10 AUG 23 247.53 SEP 28 248.38

PAYETTE COUNTY

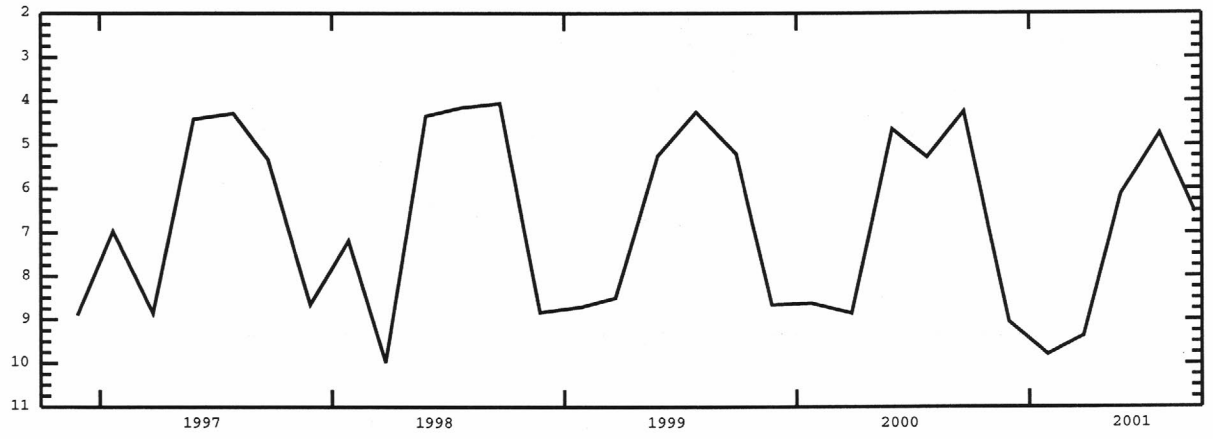
STATION NAME 08N 04W 33ACA1 SITE NUMBER 435933116485901

DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 28.5 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 43°59'33", LONGITUDE 116°48'59". LSD ABOUT 2,211 FT ABOVE SEA LEVEL. RECORDER INSTALLED MAY 17, 1967 TO JUL 26, 1983. MP NO. 1 EDGE OF 6-IN CASING EAST SIDE, 0.50 FT ABOVE LSD (SINCE MAY 11, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.51 FEET BELOW LAND SURFACE DATUM JUL 18, 1971.
LOWEST WATER LEVEL 10.51 FEET BELOW LAND SURFACE DATUM MAR 16, 1968.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 30	9.05	JAN 30	9.80	MAR 28	9.37	MAY 25	6.13	JUL 26	4.74	SEP 19	6.54



STATION NAME 06N 04W 34DDB1 SITE NUMBER 434835116474301

DRILLED DOMESTIC ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 147 FT, CASED TO 147 FT, PERFORATED 144-147 FT. LATITUDE 43°48'35", LONGITUDE 116°47'43". LSD ABOUT 2,480 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF ELECTRICAL WIRE ACCESS HOLE, 1.06 FT ABOVE LSD (SINCE MAR 25, 1996).

RECORDS AVAILABLE 1996 TO CURRENT YEAR.
HIGHEST WATER LEVEL 110.92 FEET BELOW LAND SURFACE DATUM NOV 14, 2000.
LOWEST WATER LEVEL 117.06 FEET BELOW LAND SURFACE DATUM SEP 10, 1998.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OCT 17	114.49	DEC 12	113.54	FEB 13	112.41	APR 17	112.49P	JUN 19	113.15	AUG 14	113.32
NOV 14	110.92	JAN 23	112.27	MAR 13	112.32P	MAY 15	112.59	JUL 17	114.06	SEP 11	116.27P

VALLEY COUNTY

STATION NAME 18N 03E 36BCD1 SITE NUMBER 445120116022301

FORMERLY SITE NUMBER 445126116023601, STATION NAME 18N 03E 36BC1. DRILLED DOMESTIC WATER-TABLE WELL IN OUTWASH OF PLEISTOCENE AGE, DIAM 6 IN, DEPTH 177 FT, 5-IN CASING TO 140 FT, 6-IN CASING 140-160 FT, PERFORATED 140-160 FT, GRAVEL FILL 125-177 FT. LATITUDE 44°51'20", LONGITUDE 116°02'23". LSD ABOUT 5,120 FT ABOVE SEA LEVEL. MP NO. 3 TOP OF ACCESS HOLE SOUTHEAST SIDE, 0.60 FT ABOVE LSD (SINCE MAR 11, 1975).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 32.25 FEET BELOW LAND SURFACE DATUM SEP 19, 1974.
LOWEST WATER LEVEL 48.92 FEET BELOW LAND SURFACE DATUM SEP 11, 1990.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 22	42.79	JAN 23	41.85	MAR 12	42.06	MAY 25	43.55R	JUL 30	47.28	SEP 24	50.60R

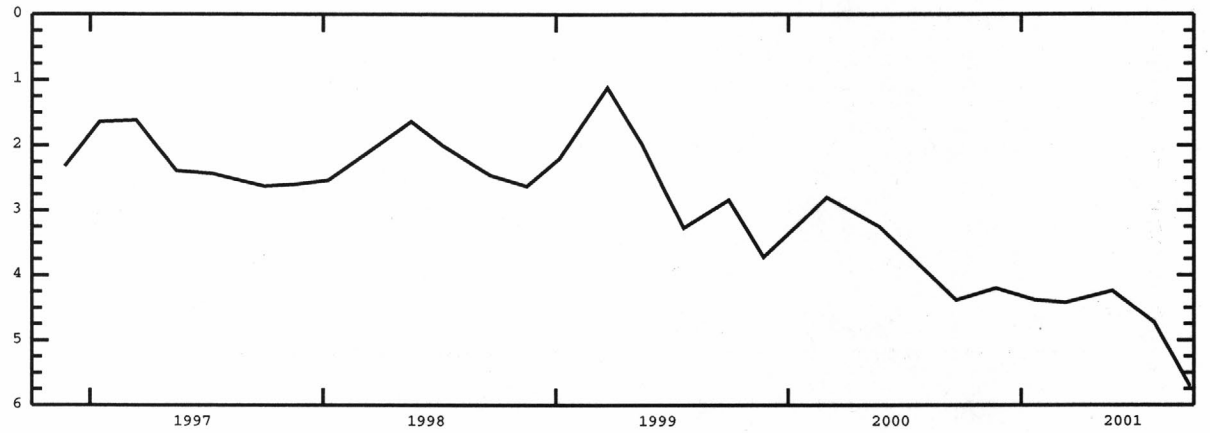
STATION NAME 16N 03E 14AAB1 SITE NUMBER 444351116030001

DRILLED DOMESTIC WATER-TABLE WELL IN OUTWASH OF PLEISTOCENE AGE, DIAM 6 IN, DEPTH 110 FT, 5-IN CASING TO 80 FT, 6-IN CASING 80-100 FT, PERFORATED 80-100 FT, GRAVEL FILL. LATITUDE 44°44'36", LONGITUDE 116°03'17". LSD ABOUT 4,865 FT ABOVE SEA LEVEL. MP NO. 1 TOP OF 1 1/4-IN ACCESS HOLE, 1.20 FT ABOVE LSD (SINCE MAR 14, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 1.12 FEET BELOW LAND SURFACE DATUM MAR 23, 1999.
LOWEST WATER LEVEL 4.73 FEET BELOW LAND SURFACE DATUM JUL 30, 2001.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 22	4.20	JAN 23	4.38	MAR 12	4.42	MAY 25	4.24	JUL 30	4.73	SEP 24	5.71R



STATION NAME 13N 04E 16BAD1 SITE NUMBER 442755115592201

DRILLED DOMESTIC WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 6 IN, DEPTH 84 FT, CASED TO 67 FT. LATITUDE 44°27'55", LONGITUDE 115°59'22". LSD ABOUT 4,770 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING WEST SIDE, 0.60 FT ABOVE LSD (SINCE MAR 14, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.
HIGHEST WATER LEVEL 12.25 FEET BELOW LAND SURFACE DATUM JAN 04, 1999.
LOWEST WATER LEVEL 34.76 FEET BELOW LAND SURFACE DATUM SEP 04, 1987.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 22	29.60	JAN 22	28.77	MAR 12	28.13	MAY 25	28.21	JUL 30	34.45R	SEP 24	31.70

STATION NAME 14N 02W 10BCA1 SITE NUMBER 444401116463001

DRILLED UNUSED ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 128.9 FT, CASING INFORMATION NOT AVAILABLE. LATITUDE 44°34'03", LONGITUDE 116°34'10". LSD ABOUT 2,705 FT ABOVE SEA LEVEL. MP NO. 2 EDGE OF CASING EAST SIDE, 0.70 FT ABOVE LSD (SINCE JUL 11, 1984).

RECORDS AVAILABLE 1974 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.32 FEET BELOW LAND SURFACE DATUM MAR 14, 1984.
LOWEST WATER LEVEL 7.80 FEET BELOW LAND SURFACE DATUM SEP 21, 1994.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 22	4.39	JAN 25	4.23	MAR 16	3.95	MAY 25	4.69	JUL 30	4.95	SEP 24	6.54

STATION NAME 13N 04W 14DAB1 SITE NUMBER 442750116464001

DRILLED STOCK WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 10 IN, REPORTED DEPTH 90 FT, 6-IN CASING INFORMATION NOT AVAILABLE. LATITUDE 44°27'50", LONGITUDE 116°46'40". LSD ABOUT 2,660 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING, 0.55 FT ABOVE LSD (SINCE JUN 19, 1974).

RECORDS AVAILABLE 1974, 1997 TO CURRENT YEAR.
HIGHEST WATER LEVEL 3.62 FEET BELOW LAND SURFACE DATUM MAR 03, 2000.
LOWEST WATER LEVEL 17.31 FEET BELOW LAND SURFACE DATUM JUN 19, 1974.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

NOV 22	6.46	JAN 26	6.52	MAR 16	4.57	MAY 25	5.83	JUL 30	6.35	SEP 24	6.36



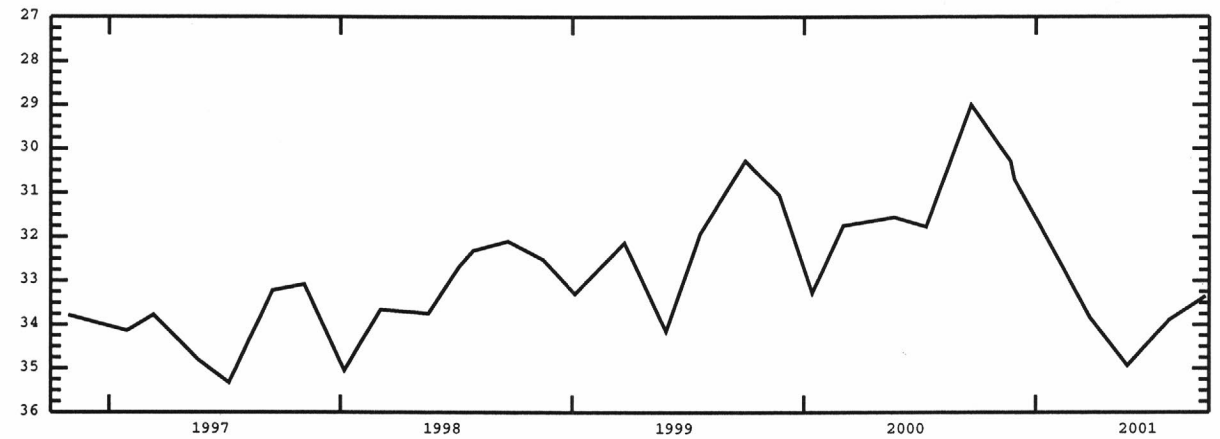
STATION NAME 11N 06W 13DDA1 SITE NUMBER 441706116593501

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 TO 8 IN, DEPTH 60 FT, 8-IN CASING TO 60 FT, PERFORATED 50-58 FT. LATITUDE 44°17'06", LONGITUDE 116°59'35". LSD ABOUT 2,200 FT ABOVE SEA LEVEL. MP NO. 1 EDGE OF CASING EAST SIDE, 0.95 FT ABOVE LSD (SINCE APR 14, 1994).

RECORDS AVAILABLE 1994 TO CURRENT YEAR.
HIGHEST WATER LEVEL 29.00 FEET BELOW LAND SURFACE DATUM SEP 21, 2000.
LOWEST WATER LEVEL 35.05 FEET BELOW LAND SURFACE DATUM JAN 07, 1998.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001.

NOV 22	30.29	JAN 09	31.78	MAY 25	34.93	SEP 24	33.35
28	30.70	MAR 28	33.84	JUL 30	33.88		



Station Name: Indicates location by township, range, and section

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	SITE NUMBER	DATE	TIME	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)	COL FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
ADA COUNTY										
01N 01E 12DAA2	432613116162902	06-21-01	1130	424	7.5	28.0	25.2	4.0	<1	130
01N 01W 07CAB1	432613116302601	07-18-01	1435	1240	7.8	25.5	20.4	7.6	<1	400
01N 01W 22DDDD1	432407116255801	07-19-01	1420	226	7.9	30.5	25.9	6.8	<1	63
02N 01E 07AAB1	433154116223801	06-25-01	1120	462	7.8	--	15.5	6.2	<1	100
02N 01E 26BAAB1	432916116181501	06-25-01	1510	460	7.8	26.5	26.8	8.2	<1	96
02N 01W 01ABD1	433240116235401	06-26-01	1435	512	7.8	26.5	14.7	7.4	--	100
02N 01W 16CDD1	433011116275401	07-20-01	1245	241	8.2	28.5	20.9	.00	<1	30
02N 01W 24BBA1	433006116243401	09-07-01	1030	645	7.3	18.0	14.1	7.5	<1	280
02N 02E 19CBC1	432936116161901	06-27-01	1010	489	7.6	22.5	23.9	6.7	<1	110
02N 02E 34CCD1	432732116123401	06-21-01	1435	370	8.2	33.0	20.1	10.5	<1	49
02N 03E 28CAC1	432841116062801	06-22-01	1045	230	7.2	25.0	23.4	6.7	<1	75
03N 01E 17ACA1	433601116213701	09-12-01	1000	676	7.2	29.0	14.0	5.1	<1	290
03N 01E 34CCCD1	433249116192801	07-18-01	1130	567	7.5	26.5	13.6	6.9	<1	200
03N 01W 16DDD1	433528116271101	06-26-01	1040	538	7.5	20.0	15.0	7.5	--	170
03N 02E 03BDB1	433745116122001	09-11-01	1545	637	6.7	30.5	15.2	4.2	<1	230
03N 02E 16BBD1	433606116134201	09-12-01	1410	344	7.1	29.0	14.8	6.5	<1	130
03N 02E 21DCA1	433442116131001	09-20-01	1200	206	7.6	25.5	14.1	7.7	<1	41
03N 02E 22ABDA1	433516116115401	07-19-01	1110	300	7.3	23.0	16.0	.6	<1	120
03N 02E 25AAC1	433420116091901	06-27-01	1420	337	6.7	26.5	15.3	4.9	<1	140
03N 02E 29CAB1	433359116144401	09-12-01	1540	269	7.3	28.0	15.9	.6	<1	78
03N 03E 30DAAD2	433406116080101	06-22-01	1400	293	6.9	33.0	10.2	.8	<1	120
03N 03E 33DAA1	433310116054201	09-11-01	1055	199	6.9	23.5	15.9	8.0	<1	62
04N 01E 15BADC1	434121116192901	09-14-01	1440	275	6.9	24.0	13.3	1.7	<1	92
04N 01E 29BABD2	433943116215901	07-16-01	1745	281	7.3	24.0	14.6	2.9	<1	100
04N 01E 35DAA1	433822116174101	07-16-01	1605	361	7.2	25.0	14.6	3.6	<1	130
04N 01W 06BAAB1	434315116301501	09-14-01	1050	473	7.0	21.0	14.7	6.4	<1	160
04N 01W 30ADAA2	433934116293602	09-07-01	1440	877	7.3	22.0	14.2	4.1	<1	250
04N 02E 09CCD2	434131116134201	09-10-01	1130	147	7.4	29.0	21.4	1.6	--	61
04N 02E 29ACA1	433930116141901	09-11-01	1345	656	7.0	28.5	13.5	6.1	<1	260
05N 01E 26DCD1	434412116175801	06-29-01	1120	320	7.9	--	29.1	.00	<1	70
05N 01E 30CAC1	434423116231301	06-29-01	1400	369	6.9	30.0	18.3	.2	<1	140
05N 01E 32DBD1	434331116213601	07-16-01	1335	324	7.0	--	14.5	7.1	<1	110
05N 01E 34DCD2	434325116190301	07-16-01	1100	659	6.8	21.0	14.6	.6	<1	260
ADAMS COUNTY										
15N 01W 10BBB1	443929116270201	07-31-01	1730	211	7.1	26.0	12.1	2.1	<1	84
15N 02W 14CAB1	443816116324701	07-31-01	1630	177	6.8	26.0	14.4	5.1	<1	72
19N 02E 06BAD1	450103116153601	07-30-01	1220	111	8.4	13.5	11.8	2.3	<1	41
19N 02E 29ADB1	445729116135901	07-30-01	1330	293	7.3	14.8	9.3	2.5	<1	58
19N 02E 29BBD1	445739116144001	07-30-01	1430	157	7.1	16.5	9.0	1.8	<1	54
BENEWAH COUNTY										
44N 04W 35DBA1	470653116474101	07-12-01	0955	234	8.0	26.5	14.2	.1	<1	84
45N 01W 29BAD1	471319116294201	07-09-01	1250	153	7.8	27.0	10.5	.8	<1	61
45N 03W 26CDD1	471239116410201	09-04-01	1605	213	6.9	29.0	9.6	6.5	<1	89
45N 05W 05CCA1	471606116595001	09-04-01	1345	109	7.1	27.0	12.3	5.5	<1	45
46N 01E 20CAB2	471904116215401	07-26-01	0730	42	7.0	12.5	7.9	7.2	<1	18
46N 01W 07DDD1	472037116300201	07-25-01	1645	239	7.6	28.5	12.6	1.7	<1	120
46N 02W 16ACD1	472007116353001	07-26-01	1025	180	5.7	19.5	11.6	2.5	<1	79
46N 04W 07CDB1	472024116531701	09-04-01	1100	372	7.3	24.5	12.1	5.1	<1	140
46N 05W 34DBD1	471706116563601	09-04-01	1230	210	8.2	25.0	11.6	.2	<1	70
BOISE COUNTY										
04N 04E 27CBC1	433906115582201	07-30-01	1345	190	9.2	16.5	18.7	1.0	<1	7
05N 04E 29CBDB1	434415116004701	06-28-01	1140	255	7.2	26.0	10.3	.6	<1	51
06N 05E 26CBB1	434943115505601	06-28-01	1445	324	6.3	25.5	12.1	1.4	<1	77
07N 04E 28ADA1	435504115584801	08-17-01	1215	141	6.5	33.0	9.0	7.3	<1	49
07N 05E 31DCCA1	435342115542701	08-17-01	1430	71	7.1	36.0	10.0	1.7	<1	7
08N 05E 06DDC1	440303115535301	08-16-01	1445	308	8.4	34.5	21.6	1.7	S2	54
09N 04E 26BDB1	440515115570301	08-16-01	1210	141	6.9	31.5	13.9	5.6	<1	30
BONNER COUNTY										
54N 04W 19BCD1	480051116532101	09-10-01	1505	284	7.9	28.0	9.0	1.8	<1	130
55N 02W 05DBB1	480831116355801	07-17-01	1215	160	7.0	18.0	9.3	.5	<1	67
55N 03W 06BCB1	480846116453801	07-18-01	1000	260	7.1	17.5	8.7	7.0	<1	120
55N 04W 10BBB1	480812116493501	07-18-01	1310	275	7.5	24.0	8.2	9.1	<1	140
56N 01W 10CCD1	481233116255301	07-19-01	0940	531	7.3	17.5	10.4	1.3	<1	270

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	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)	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)	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)
ADA COUNTY											
01N 01E 12DAA2	06-21-01	32.6	11.4	37.4	3.63	140	.0	117	49.0	21.5	.2
01N 01W 07CAB1	07-18-01	98.8	38.2	94.7	8.80	200	.0	164	274	106	.2
01N 01W 22DDDD1	07-19-01	17.7	4.59	17.7	2.87	100	.0	85	11.5	6.8	.3
02N 01E 07AAB1	06-25-01	32.3	5.69	64.2	1.22	210	.0	170	36.8	5.7	.7
02N 01E 26BAAB1	06-25-01	31.8	3.95	58.9	1.71	140	.0	117	74.9	21.7	.9
02N 01W 01ABD1	06-26-01	26.0	9.27	75.2	1.36	--	--	--	34.8	8.1	.8
02N 01W 16CDD1	07-20-01	10.1	1.19	42.6	1.20	130	.0	109	4.8	5.0	.9
02N 01W 24BBA1	09-07-01	65.9	27.2	25.8	2.08	280	.0	226	25.1	12.8	.7
02N 02E 19CBC1	06-27-01	31.0	6.99	68.8	1.45	250	.0	204	50.0	8.0	.4
02N 02E 34CCD1	06-21-01	17.8	1.15	61.6	1.01	120	.0	102	34.7	19.9	.6
02N 03E 28CAC1	06-22-01	21.5	5.16	19.4	1.53	110	.0	90	6.8	4.7	.3
03N 01E 17ACA1	09-12-01	80.9	22.3	27.5	1.14	400	.0	327	12.3	4.0	.6
03N 01E 34CCCD1	07-18-01	53.2	15.8	48.4	1.46	280	.0	228	37.9	7.2	.8
03N 01W 16DDD1	06-26-01	49.1	12.0	54.0	1.15	190	.0	157	38.3	3.5	1.0
03N 02E 03BDB1	09-11-01	73.5	12.4	25.8	3.80	150	.0	123	96.9	32.4	E.1
03N 02E 16BBD1	09-12-01	36.0	10.3	16.9	1.36	180	.0	150	14.5	4.7	.3
03N 02E 21DCA1	09-20-01	10.6	3.55	30.4	1.11	110	.0	90	5.0	1.8	.9
03N 02E 22ABDA1	07-19-01	41.2	4.58	14.5	1.35	160	.0	130	12.2	2.9	.4
03N 02E 25AAC1	06-27-01	38.1	9.69	14.6	1.66	140	.0	108	17.9	7.6	.3
03N 02E 29CAB1	09-12-01	22.7	5.07	21.4	1.09	110	.0	89	33.2	5.3	.7
03N 03E 30DAAD2	06-22-01	39.8	5.02	15.4	1.14	170	.0	137	5.9	2.9	.4
03N 03E 33DAA1	09-11-01	21.0	2.25	13.3	2.90	84	.0	69	12.6	4.1	.3
04N 01E 15BADC1	09-14-01	29.8	4.14	24.8	1.01	150	.0	122	6.1	3.0	.5
04N 01E 29BABD2	07-16-01	24.7	9.55	21.1	1.33	150	.0	123	8.1	1.6	.7
04N 01E 35DAA1	07-16-01	38.5	7.61	24.3	2.65	160	.0	132	29.6	7.7	.4
04N 01W 06BAAB1	09-14-01	47.4	9.53	41.4	2.34	260	.0	214	15.2	4.3	.4
04N 01W 30ADAA2	09-07-01	68.9	19.9	94.1	3.46	370	.0	306	52.7	16.3	.6
04N 02E 09CCD2	09-10-01	20.9	2.04	7.2	2.35	84	.0	69	2.1	1.4	.2
04N 02E 29ACA1	09-11-01	91.8	7.78	38.3	4.00	240	.0	195	92.2	10.8	1.0
05N 01E 26DCD1	06-29-01	23.8	2.64	37.5	3.44	120	.0	96	43.4	3.4	2.7
05N 01E 30CAC1	06-29-01	37.8	11.0	21.8	2.22	170	.0	141	30.9	7.3	.5
05N 01E 32DBD1	07-16-01	31.8	7.93	26.8	2.32	180	.0	146	7.0	2.5	.3
05N 01E 34DCD2	07-16-01	74.8	18.3	36.1	2.89	250	.0	202	110	13.8	.5
ADAMS COUNTY											
15N 01W 10BBB1	07-31-01	18.3	9.16	11.7	3.59	120	.0	98	3.0	1.8	.2
15N 02W 14CAB1	07-31-01	18.4	6.18	7.2	3.20	90	.0	74	1.8	1.4	.2
19N 02E 06BAD1	07-30-01	10.5	3.62	6.4	1.99	66	.0	54	1.4	.6	E.1
19N 02E 29ADB1	07-30-01	15.1	4.90	37.5	3.13	97	.0	80	46.9	6.8	.5
19N 02E 29BBD1	07-30-01	12.2	5.64	9.3	3.34	85	.0	70	8.5	3.2	E.1
BENEWAH COUNTY											
44N 04W 35DBA1	07-12-01	19.4	8.67	13.2	2.87	130	.0	106	9.6	1.7	.4
45N 01W 29BAD1	07-09-01	12.1	7.44	6.7	2.20	88	.0	72	2.8	.4	.2
45N 03W 26CDD1	09-04-01	19.3	9.90	7.6	2.00	120	.0	101	3.2	2.2	.2
45N 05W 05CCA1	09-04-01	12.0	3.60	4.9	.31	61	.0	50	1.6	1.4	.5
46N 01E 20CAB2	07-26-01	4.74	1.55	1.2	.47	24	.0	19	.7	.3	<.2
46N 01W 07DDD1	07-25-01	22.1	15.3	3.9	.73	130	.0	110	7.5	1.7	<.2
46N 02W 16ACD1	07-26-01	19.1	7.51	4.6	.94	77	.0	63	10.6	2.9	<.2
46N 04W 07CDB1	09-04-01	35.0	13.7	13.2	2.85	84	.0	69	3.3	76.3	.3
46N 05W 34DBD1	09-04-01	16.5	7.04	13.3	5.29	120	.0	96	4.6	2.5	.2
BOISE COUNTY											
04N 04E 27CBC1	07-30-01	2.64	.016	38.5	.14	80	.0	66	20.3	1.0	.2
05N 04E 29CBDB1	06-28-01	17.8	1.50	36.9	.90	120	.0	96	25.5	1.6	.3
06N 05E 26CBB1	06-28-01	23.0	4.70	23.0	3.40	140	.0	110	30.0	12.0	.3
07N 04E 28ADA1	08-17-01	13.6	3.65	8.0	.87	83	.0	68	2.2	1.1	<.2
07N 05E 31DCCA1	08-17-01	2.24	.378	13.0	.53	49	.0	40	.4	1.3	.4
08N 05E 06DDC1	08-16-01	19.6	1.26	41.6	1.30	140	0	112	17.8	4.6	6.6
09N 04E 26BDB1	08-16-01	9.63	1.51	17.7	.79	72	.0	59	3.2	1.5	1.7
BONNER COUNTY											
54N 04W 19BCD1	09-10-01	35.4	9.93	4.2	1.71	160	.0	135	10.4	1.8	<.2
55N 02W 05DBB1	07-17-01	20.8	3.76	4.3	.74	82	.0	67	9.4	1.1	E.1
55N 03W 06BCB1	07-18-01	34.8	8.75	3.8	1.77	140	.0	117	9.1	1.4	E.1
55N 04W 10BBB1	07-18-01	41.3	8.06	2.5	1.92	160	.0	132	5.2	.8	E.1
56N 01W 10CCD1	07-19-01	84.7	13.1	8.0	1.20	210	.0	174	33.0	54.0	.2

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
ADA COUNTY											
01N 01E 12DAA2	06-21-01	44.4	.38	E.004	1.41	E.025	E.017	2.2	62.4	.05	10
01N 01W 07CAB1	07-18-01	44.5	1.08	<.006	7.67	<.040	<.020	4.4	82.6	.18	<10
01N 01W 22DDDD1	07-19-01	37.4	.21	<.006	.751	<.040	<.020	4.8	50.2	.17	<10
02N 01E 07AAB1	06-25-01	28.7	.39	<.006	2.02	<.040	.018	4.6	29.5	E.02	<10
02N 01E 26BAAB1	06-25-01	29.7	.41	<.006	1.68	<.040	.023	5.8	55.2	.06	<10
02N 01W 01ABD1	06-26-01	31.7	.44	<.006	4.24	<.040	.019	3.5	50.2	.08	<10
02N 01W 16CDD1	07-20-01	25.9	.21	<.006	<.050	.075	E.015	6.4	29.6	.05	20
02N 01W 24BBA1	09-07-01	56.5	.54	<.006	9.65	<.040	.062	19.4	17.4	.22	<10
02N 02E 19CBC1	06-27-01	28.3	.44	.008	1.43	<.040	.036	4.0	74.2	E.04	<10
02N 02E 34CCD1	06-21-01	21.4	.31	E.003	1.65	<.040	<.020	5.6	36.1	.07	<10
02N 03E 28CAC1	06-22-01	42.4	.22	E.004	1.64	E.022	.045	2.3	50.4	<.04	<10
03N 01E 17ACA1	09-12-01	57.6	.56	<.006	2.15	<.040	.077	5.7	36.8	.52	<10
03N 01E 34CCCD1	07-18-01	38.9	.49	<.006	4.17	<.040	.029	3.0	43.2	.08	<10
03N 01W 16DDD1	06-26-01	43.0	.41	<.006	1.74	<.040	.023	2.2	53.7	.08	<10
03N 02E 03BDB1	09-11-01	43.5	.55	<.006	8.92	<.040	.116	5.3	67.5	.21	10
03N 02E 16BBD1	09-12-01	29.8	.29	<.006	1.85	<.040	.072	4.8	11.1	.21	<10
03N 02E 21DCA1	09-20-01	32.8	.20	<.006	.698	<.040	.453	7.8	1.9	.07	<10
03N 02E 22ABDA1	07-19-01	25.7	.25	<.006	.626	<.040	E.011	4.0	19.2	.16	<10
03N 02E 25AAC1	06-27-01	28.9	.29	.009	5.88	<.040	<.020	.5	47.6	.13	<10
03N 02E 29CAB1	09-12-01	26.7	.23	<.006	<.050	<.040	.020	1.5	3.8	.09	1050
03N 03E 30DAAD2	06-22-01	17.3	.23	E.004	.237	<.040	<.020	.4	29.2	.04	<10
03N 03E 33DAA1	09-11-01	38.6	.19	<.006	.634	<.040	.035	1.7	86.5	.06	<10
04N 01E 15BADC1	09-14-01	34.8	.25	<.006	1.70	<.040	.034	2.0	45.2	.13	<10
04N 01E 29BABD2	07-16-01	42.2	.26	.008	1.58	<.040	.177	6.1	46.7	.05	<10
04N 01E 35DAA1	07-16-01	37.7	.32	.008	1.03	<.040	.037	6.7	86.8	.10	<10
04N 01W 06BAAB1	09-14-01	36.4	.40	<.006	2.53	<.040	.103	2.6	107	.13	<10
04N 01W 30ADAA2	09-07-01	43.7	.72	<.006	10.6	<.040	.253	5.2	84.6	.27	<10
04N 02E 09CCD2	09-10-01	51.0	.18	E.003	.128	.085	.111	1.3	172	.05	<10
04N 02E 29ACA1	09-11-01	39.8	.56	<.006	1.94	<.040	.179	14.3	96.8	.10	<10
05N 01E 26DCD1	06-29-01	30.2	.28	.009	<.050	.225	<.020	24.5	2.3	.14	10
05N 01E 30CAC1	06-29-01	30.9	.31	.010	<.050	E.039	<.020	4.3	33.2	E.03	2090
05N 01E 32DBD1	07-16-01	41.8	.30	.008	2.27	<.040	.145	10.3	41.5	.11	<10
05N 01E 34DCD2	07-16-01	42.5	.58	.009	.350	.105	.211	17.5	106	.12	100
ADAMS COUNTY											
15N 01W 10BBB1	07-31-01	60.5	.23	<.006	.346	<.040	.047	3.3	4.1	<.04	<10
15N 02W 14CAB1	07-31-01	51.8	.19	<.006	1.53	<.040	.062	.3	34.5	<.04	<10
19N 02E 06BAD1	07-30-01	27.4	.12	<.006	.444	<.040	.150	1.0	3.9	<.04	40
19N 02E 29ADB1	07-30-01	33.0	.27	<.006	.280	<.040	.051	.2	47.1	<.04	<10
19N 02E 29BBD1	07-30-01	40.7	.17	<.006	E.035	.045	.079	<.2	97.9	<.04	1310
BENEWAH COUNTY											
44N 04W 35DBA1	07-12-01	13.3	.18	<.006	<.050	<.040	<.020	.2	115	<.04	<10
45N 01W 29BAD1	07-09-01	34.1	.15	<.006	<.050	<.040	.056	4.6	41.7	<.04	70
45N 03W 26CDD1	09-04-01	26.4	.18	<.006	E.088	<.040	E.009	<.2	24.7	E.03	70
45N 05W 05CCA1	09-04-01	25.5	.11	<.006	E.136	<.040	E.118	<.2	7.3	E.03	10
46N 01E 20CAB2	07-26-01	9.8	.04	<.006	.085	<.040	E.009	E.2	9.4	<.04	<10
46N 01W 07DDD1	07-25-01	15.4	.18	<.006	.052	<.040	E.009	1.0	29.4	.09	<10
46N 02W 16ACD1	07-26-01	26.1	.16	<.006	1.90	<.040	.058	.5	33.6	<.04	20
46N 04W 07CDB1	09-04-01	36.6	.30	<.006	E.138	<.040	E.060	<.2	12.9	.07	<10
46N 05W 34DBD1	09-04-01	35.0	.19	<.006	<.050	<.040	E.032	<.2	16.4	E.02	80
BOISE COUNTY											
04N 04E 27CBC1	07-30-01	15.3	.16	<.006	E.032	<.040	<.020	4.7	1.2	.36	<10
05N 04E 29CBDB1	06-28-01	34.0	.24	.039	E.041	E.028	.078	2.2	8.1	E.02	20
06N 05E 26CBB1	06-28-01	32.0	.29	.008	<.050	.112	<.020	9.0	216	.05	19000
07N 04E 28ADA1	08-17-01	39.6	.15	<.006	.088	<.040	.071	.3	72.1	.30	40
07N 05E 31DCCA1	08-17-01	7.9	.07	<.006	E.025	E.027	<.020	1.6	3.3	E.03	120
08N 05E 06DDC1	08-16-01	42.5	.28	<.006	.912	<.040	<.020	2.3	5.8	.05	<10
09N 04E 26BDB1	08-16-01	34.2	.15	<.006	1.20	<.040	.035	.7	19.7	.81	<10
BONNER COUNTY											
54N 04W 19BCD1	09-10-01	15.6	.22	<.006	.244	<.040	<.020	7.5	30.2	<.04	<10
55N 02W 05DBB1	07-17-01	22.5	.14	E.004	<.050	<.040	<.020	<.2	8.3	<.04	1480
55N 03W 06BCB1	07-18-01	17.1	.20	<.006	.450	<.040	<.020	1.7	23.1	<.04	<10
55N 04W 10BBB1	07-18-01	16.9	.21	<.006	.324	<.040	<.020	2.6	40.1	E.02	<10
56N 01W 10CCD1	07-19-01	21.3	.44	E.004	<.050	<.040	<.020	.8	77.7	<.04	140

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	DATE	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)
		ADA COUNTY	
01N 01E 12DAA2	06-21-01	<3.0	.9
01N 01W 07CAB1	07-18-01	<3.0	3.5
01N 01W 22DDDD1	07-19-01	<3.0	.5
02N 01E 07AAB1	06-25-01	<3.0	.3
02N 01E 26BAAB1	06-25-01	<3.0	1.2
02N 01W 01ABD1	06-26-01	<3.0	.4
02N 01W 16CDD1	07-20-01	13.0	<.3
02N 01W 24BBA1	09-07-01	<3.0	.6
02N 02E 19CBC1	06-27-01	<3.0	.4
02N 02E 34CCD1	06-21-01	<3.0	1.1
02N 03E 28CAC1	06-22-01	<3.0	.4
03N 01E 17ACA1	09-12-01	<3.0	<.3
03N 01E 34CCCD1	07-18-01	<3.0	.6
03N 01W 16DDD1	06-26-01	<3.0	.4
03N 02E 03BDB1	09-11-01	11.6	1.2
03N 02E 16BBD1	09-12-01	<3.0	<.3
03N 02E 21DCA1	09-20-01	<3.0	1.0
03N 02E 22ABDA1	07-19-01	<3.0	<.3
03N 02E 25AAC1	06-27-01	<3.0	E.2
03N 02E 29CAB1	09-12-01	40.6	<.3
03N 03E 30DAAD2	06-22-01	E1.7	<.3
03N 03E 33DAA1	09-11-01	4.2	<.3
04N 01E 15BADC1	09-14-01	<3.0	.9
04N 01E 29BABD2	07-16-01	<3.0	<.3
04N 01E 35DAA1	07-16-01	7.0	5.6
04N 01W 06BAAB1	09-14-01	<3.0	<.3
04N 01W 30ADAA2	09-07-01	<3.0	.6
04N 02E 09CCD2	09-10-01	2430	<.3
04N 02E 29ACA1	09-11-01	E2.7	E.2
05N 01E 26DCD1	06-29-01	30.0	<.3
05N 01E 30CAC1	06-29-01	54.5	<.3
05N 01E 32DBD1	07-16-01	<3.0	<.3
05N 01E 34DCD2	07-16-01	1050	E.3
		ADAMS COUNTY	
15N 01W 10BBB1	07-31-01	<3.0	<.3
15N 02W 14CAB1	07-31-01	<3.0	E.3
19N 02E 06BAD1	07-30-01	4.9	E.2
19N 02E 29ADB1	07-30-01	<3.0	E.2
19N 02E 29BBD1	07-30-01	327	<.3
		BENEWAH COUNTY	
44N 04W 35DBA1	07-12-01	172	<.3
45N 01W 29BAD1	07-09-01	32.0	E.3
45N 03W 26CDD1	09-04-01	<3.0	E.3
45N 05W 05CCA1	09-04-01	E2.3	<.3
46N 01E 20CAB2	07-26-01	<3.0	<.3
46N 01W 07DDD1	07-25-01	E2.6	<.3
46N 02W 16ACD1	07-26-01	E1.6	<.3
46N 04W 07CDB1	09-04-01	<3.0	E.2
46N 05W 34DBD1	09-04-01	38.6	<.3
		BOISE COUNTY	
04N 04E 27CBC1	07-30-01	<3.0	<.3
05N 04E 29CBDB1	06-28-01	123	<.3
06N 05E 26CBB1	06-28-01	790	<.3
07N 04E 28ADA1	08-17-01	9.8	<.3
07N 05E 31DCCA1	08-17-01	115	<.3
08N 05E 06DDC1	08-16-01	<3.0	<.3
09N 04E 26BDB1	08-16-01	<3.0	<.3
		BONNER COUNTY	
54N 04W 19BCD1	09-10-01	<3.0	<.3
55N 02W 05DBB1	07-17-01	413	<.3
55N 03W 06BCB1	07-18-01	<3.0	<.3
55N 04W 10BBB1	07-18-01	<3.0	<.3
56N 01W 10CCD1	07-19-01	1310	<.3

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	SITE NUMBER	DATE	TIME	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)	COL FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
BONNER COUNTY										
56N 02W 09DBB2	481254116343701	07-17-01	1000	114	6.8	16.5	7.7	5.1	<1	46
56N 02W 15CCB1	481151116335301	07-19-01	1255	146	7.0	25.0	11.4	4.0	<1	64
56N 03W 30BCB1	481034116453701	08-29-01	1530	167	7.4	30.5	9.5	2.9	<1	73
56N 03W 32BBD1	480944116441001	09-10-01	1155	276	7.9	21.5	11.0	.2	<1	110
56N 04W 06BDD1	481405116530501	08-29-01	1225	224	8.3	27.5	8.8	.2	<1	100
56N 04W 19BCC1	481117116533501	08-29-01	0940	366	8.0	17.0	8.6	.2	<1	170
57N 02W 16BAC1	481730116345801	07-06-01	1300	187	8.3	22.5	9.4	.2	<1	76
58N 01W 09BCD1	482341116284301	09-06-01	1000	234	7.9	15.0	10.1	.2	<1	100
59N 01W 09BCC1	482849116285101	07-06-01	0920	220	8.2	23.0	7.7	3.1	<1	110
60N 05W 36ABB1	483052116552901	08-22-01	1240	51	5.9	18.0	7.9	4.6	<1	17
BOUNDARY COUNTY										
60N 01E 07AAA1	483421116223101	08-28-01	1610	164	6.9	26.5	9.4	3.1	<1	70
61N 01E 06AAB1	484025116224401	08-28-01	1445	608	7.5	26.5	11.6	.1	<1	310
62N 01E 12CAD1	484408116163801	08-28-01	1110	833	7.3	21.0	8.8	3.6	<1	410
62N 02E 14ACD1	484330116094101	08-28-01	0900	430	7.1	18.0	9.1	1.8	<1	200
64N 01E 28DDC1	485145116200201	08-28-01	1300	403	7.2	27.5	11.4	6.6	<1	190
65N 02E 34ABC1	485644116111101	08-10-01	1130	123	6.8	26.0	8.7	3.9	<1	55
CANYON COUNTY										
01N 02W 04DDC1	432645116343001	08-14-01	1050	280	8.2	29.5	25.0	--	<1	58
01N 02W 36CAA1	432240116313001	08-14-01	0905	551	7.9	24.5	22.5	1.3	<1	89
02N 01W 07AAB1	433155116294401	06-26-01	1320	591	7.5	28.5	13.7	6.5	<1	300
02N 02W 22CCA1	432928116340601	06-27-01	1000	771	8.0	24.0	19.3	7.0	<1	91
02N 04W 13ACD1	433035116452401	06-27-01	1150	1470	7.2	27.5	17.6	7.3	<1	600
03N 01W 18DAC1	433545116295201	06-27-01	1430	619	7.2	29.5	15.5	9.0	<1	200
03N 01W 19ADB1	433513116294401	08-16-01	0850	443	7.3	23.5	14.8	4.2	--	170
03N 01W 30ADD1	433413116293501	06-28-01	1035	537	7.5	24.0	14.4	5.2	<1	240
03N 02W 07DDD1	433619116364601	06-28-01	1350	426	7.5	28.0	17.6	2.5	<1	110
03N 02W 29BBBB1	433432116364101	07-11-01	1320	455	7.5	32.0	17.9	3.4	<1	150
03N 03W 02DDDC1	433710116391401	07-02-01	1535	827	7.6	33.0	14.2	4.2	<1	170
03N 03W 14CDA1	433531116394601	07-09-01	0920	960	7.5	31.0	15.2	5.2	<1	280
03N 03W 22ABB1	433522116403601	07-02-01	1100	513	8.2	27.5	15.6	.9	<1	140
03N 04W 04BDA1	433744116491901	07-03-01	1005	633	7.5	27.0	16.4	7.0	<1	240
03N 04W 12AAD2	433655116451001	07-02-01	1345	312	8.2	30.0	16.8	.3	<1	75
04N 02W 06BBC1	434305116375201	07-03-01	1320	139	7.2	33.5	14.9	2.0	<1	50
04N 02W 08ADD1	434200116353201	07-24-01	1420	116	7.3	32.5	13.8	2.5	<1	44
04N 02W 22DCD1	433948116333201	07-03-01	1425	118	7.6	38.0	16.0	2.0	<1	40
04N 02W 27AAB1	433948116331501	07-09-01	1140	905	7.1	29.0	13.0	2.2	<1	300
04N 03W 02ABBB1	434313116394001	07-09-01	1430	547	7.0	34.5	14.5	6.3	<1	200
04N 03W 06BABA1	434311116444301	07-10-01	0915	1020	7.4	26.0	13.9	1.5	<1	180
04N 03W 27CBAD1	433915116411701	08-16-01	1100	417	7.3	31.5	17.4	5.7	--	140
04N 03W 30ADA1	433935116441001	07-10-01	1320	505	7.8	33.5	20.8	1.0	<1	130
04N 03W 36BAC1	433843116384301	07-11-01	0935	188	7.9	26.5	18.7	2.9	<1	40
04N 04W 21CAA2	432835116492501	07-24-01	1055	768	7.6	26.5	14.4	5.1	<1	260
04N 04W 25DAA1	433911116450801	07-10-01	1125	890	7.4	30.0	17.1	4.5	<1	220
04N 05W 21AAB2	434033116560501	07-12-01	1050	381	7.5	27.0	17.1	6.9	44	150
04N 05W 23BCC1	434009116543701	07-12-01	0935	650	7.7	23.5	20.6	4.0	<1	160
05N 02W 20DAC1	434516116354401	07-11-01	1115	665	7.0	30.0	15.2	7.0	<1	230
05N 02W 24DAB2	434525116305102	07-24-01	1705	268	7.2	32.5	17.9	3.6	<1	99
05N 03W 04BCB1	434815116423901	08-14-01	1350	533	7.2	37.0	16.0	7.5	<1	210
05N 04W 08BCC1	434716116505401	07-12-01	1315	188	7.6	27.0	16.4	7.5	<1	44
05N 05W 32CDC1	434313116574901	07-12-01	1425	680	7.5	31.0	17.5	21.6	<1	210
05N 06W 25CDD1	434408117000701	07-23-01	1400	770	7.4	32.5	16.6	1.1	<1	230
06N 05W 07ABB2	435241116585302	07-25-01	1045	703	7.2	27.0	15.8	.6	<1	260
06N 05W 29DAD1	434935116571401	07-23-01	1045	557	7.7	29.0	16.1	6.7	<1	200
CLEARWATER COUNTY										
36N 02E 03BDB1	462940116115801	08-28-01	1430	291	9.3	29.0	14.9	1.1	<1	4
37N 01E 31DDC1	463005116221601	08-28-01	1200	255	7.3	28.5	12.5	4.5	<1	120
CUSTER COUNTY										
10N 13E 09ADC1	441240114561501	09-05-01	0930	109	6.7	6.0	7.5	4.9	<1	44
11N 12E 10ADC1	441755115022601	09-04-01	1505	53	6.7	27.0	6.9	7.4	<1	18
11N 15E 20BCB1	441618114440201	09-04-01	1730	124	6.8	26.0	7.1	4.3	<1	50
12N 19E 19BAD1	442135114154901	08-09-01	1540	247	7.9	29.0	9.2	4.2	<1	100
14N 18E 35DCC1	442937114181001	09-11-01	1920	338	7.7	23.5	13.6	3.1	<1	120

QUALITY OF GROUND WATER

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	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)	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)	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)
BONNER COUNTY											
56N 02W 09DBB2	07-17-01	13.0	3.40	3.7	1.22	63	.0	52	4.8	1.3	E.1
56N 02W 15CCB1	07-19-01	17.9	4.64	3.7	1.08	68	.0	56	6.7	1.9	E.1
56N 03W 30BCB1	08-29-01	21.2	4.86	3.9	1.52	85	.0	69	10.3	1.8	E.1
56N 03W 32BBD1	09-10-01	32.6	6.80	10.8	2.33	150	.0	126	15.4	1.0	.3
56N 04W 06BDD1	08-29-01	29.6	7.00	6.2	1.43	130	.0	108	6.9	.7	E.1
56N 04W 19BCC1	08-29-01	49.8	11.5	8.9	2.21	200	.0	165	21.1	2.5	.2
57N 02W 16BAC1	07-06-01	20.9	5.72	6.8	1.71	94	.0	77	12.5	2.8	.3
58N 01W 09BCD1	09-06-01	30.2	6.33	8.5	.81	140	.0	112	7.2	.6	.5
59N 01W 09BCC1	07-06-01	35.1	5.42	1.9	.86	140	.0	111	2.8	.4	<.2
60N 05W 36ABB1	08-22-01	5.52	.793	3.4	1.05	25	.0	21	2.0	1.3	E.2
BOUNDARY COUNTY											
60N 01E 07AAA1	08-28-01	18.0	6.07	6.4	.53	96	.0	79	5.0	.7	.2
61N 01E 06AAB1	08-28-01	73.0	32.1	8.3	3.08	370	.0	306	19.4	1.3	.5
62N 01E 12CAD1	08-28-01	124	23.5	11.8	8.02	400	.0	324	34.6	17.3	.2
62N 02E 14ACD1	08-28-01	55.7	13.9	13.7	1.73	210	.0	171	47.4	2.9	.2
64N 01E 28DDC1	08-28-01	63.4	7.34	8.8	3.19	230	.0	186	21.5	1.8	.2
65N 02E 34ABC1	08-10-01	15.0	4.16	3.7	.88	70	.0	57	4.7	.8	E.1
CANYON COUNTY											
01N 02W 04DDC1	08-14-01	19.4	2.18	38.9	1.95	110	.0	91	24.7	9.6	.3
01N 02W 36CAA1	08-14-01	22.1	8.23	82.4	4.11	170	.0	140	77.6	22.7	1.0
02N 01W 07AAB1	06-26-01	69.2	30.1	18.1	2.25	360	.0	297	11.9	2.9	.8
02N 02W 22CCA1	06-27-01	29.0	4.43	143	1.36	230	.0	187	142	27.9	2.5
02N 04W 13ACD1	06-27-01	161	48.2	67.8	24.6	280	.0	233	310	158	.5
03N 01W 18DAC1	06-27-01	60.1	12.3	63.2	1.53	300	.0	243	56.5	6.1	.5
03N 01W 19ADB1	08-16-01	42.2	14.6	34.2	2.02	240	.0	196	24.7	2.9	1.0
03N 01W 30ADD1	06-28-01	54.5	24.3	28.3	2.21	290	.0	240	25.9	3.5	1.0
03N 02W 07DDD1	06-28-01	32.1	8.15	47.9	3.91	170	.0	142	37.8	11.9	1.0
03N 02W 29BBBB1	07-11-01	44.6	10.1	36.9	4.97	180	.0	149	52.2	13.6	.3
03N 03W 02DDDC1	07-02-01	49.7	12.2	116	4.39	320	.0	258	111	24.0	.5
03N 03W 14CDA1	07-09-01	73.7	23.5	106	4.07	370	.0	307	122	34.4	.6
03N 03W 22ABB1	07-02-01	44.7	6.52	50.8	2.94	150	.0	127	77.0	32.3	.4
03N 04W 04BDA1	07-03-01	50.3	28.5	46.6	2.25	280	.0	226	58.5	10.4	.7
03N 04W 12AAD2	07-02-01	24.6	3.36	36.4	3.55	140	.0	111	31.3	6.6	.6
04N 02W 06BBC1	07-03-01	14.8	3.13	9.5	1.05	76	.0	63	6.2	2.1	.3
04N 02W 08ADD1	07-24-01	13.1	2.71	7.0	1.12	67	.0	55	2.5	1.2	.3
04N 02W 22DCD1	07-03-01	12.2	2.21	10.7	.84	65	.0	53	4.6	1.6	.3
04N 02W 27AAB1	07-09-01	84.4	21.3	77.0	3.48	300	.0	246	111	26.0	.2
04N 03W 02ABBB1	07-09-01	58.9	13.0	29.7	4.82	180	.0	147	68.1	34.4	.2
04N 03W 06BABA1	07-10-01	50.4	14.0	158	3.12	410	.0	336	124	25.6	.5
04N 03W 27CBAD1	08-16-01	41.0	10.2	26.7	4.16	130	.0	105	41.7	31.5	.2
04N 03W 30ADA1	07-10-01	45.8	4.32	51.3	2.86	140	.0	115	70.6	39.1	.4
04N 03W 36BAC1	07-11-01	13.5	1.55	26.3	1.10	120	.0	95	9.7	4.2	.6
04N 04W 21CAA2	07-24-01	44.7	36.7	73.2	2.86	380	.0	313	57.4	7.6	.6
04N 04W 25DAA1	07-10-01	58.8	17.3	112	5.55	370	.0	300	91.3	28.6	.7
04N 05W 21AAB2	07-12-01	40.8	10.6	20.9	9.23	180	.0	152	27.0	5.6	1.0
04N 05W 23BCC1	07-12-01	53.8	5.84	71.7	13.2	250	.0	204	58.5	45.0	1.2
05N 02W 20DAC1	07-11-01	66.3	15.0	49.9	5.68	180	.0	144	130	35.4	.3
05N 02W 24DAB2	07-24-01	27.9	7.14	16.4	2.35	120	.0	102	18.1	7.0	.3
05N 03W 04BCB1	08-14-01	61.3	13.5	21.9	3.71	140	.0	116	73.5	42.7	.2
05N 04W 08BCC1	07-12-01	12.8	2.85	24.4	1.94	100	.0	84	4.7	3.0	.7
05N 05W 32CDC1	07-12-01	47.2	23.5	57.6	9.34	250	.0	204	70.1	27.0	.8
05N 06W 25CDD1	07-23-01	60.6	18.8	74.8	17.1	330	.0	274	75.2	21.9	.5
06N 05W 07ABB2	07-25-01	64.6	23.1	45.8	6.37	280	.0	237	59.4	32.7	.7
06N 05W 29DAD1	07-23-01	45.9	20.2	44.9	6.31	300	.0	250	21.6	16.3	.5
CLEARWATER COUNTY											
36N 02E 03BDB1	08-28-01	1.62	.035	60.9	.35	120	.0	100	21.8	10.9	.5
37N 01E 31DDC1	08-28-01	31.0	10.7	11.6	2.77	150	.0	122	5.6	1.6	.2
CUSTER COUNTY											
10N 13E 09ADC1	09-05-01	12.7	2.95	4.5	.48	63	.0	52	.9	.8	<.2
11N 12E 10ADC1	09-04-01	4.94	1.43	3.1	.35	33	.0	28	.7	.3	<.2
11N 15E 20BCB1	09-04-01	17.4	1.56	4.2	.77	64	.0	53	6.4	1.1	.2
12N 19E 19BAD1	08-09-01	32.2	5.06	12.1	1.04	130	.0	110	15.6	3.2	.6
14N 18E 35DCC1	09-11-01	36.1	6.82	20.6	.20	130	.0	104	17.3	18.0	.2

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
BONNER COUNTY											
56N 02W 09DBB2	07-17-01	21.6	.11	E.003	.407	<.040	<.020	E.1	9.3	E.02	<10
56N 02W 15CCB1	07-19-01	23.2	.13	E.004	1.21	<.040	<.020	.7	8.8	E.02	20
56N 03W 30BCB1	08-29-01	18.6	.14	<.006	E.269	<.040	<.020	1.1	23.5	E.03	30
56N 03W 32BBD1	09-10-01	19.3	.22	<.006	<.050	<.040	.084	12.3	9.5	E.02	20
56N 04W 06BDD1	08-29-01	15.7	.18	<.006	<.050	<.040	E.035	3.7	63.1	E.02	<10
56N 04W 19BCC1	08-29-01	13.8	.29	<.006	<.050	<.040	E.015	2.5	42.5	<.04	340
57N 02W 16BAC1	07-06-01	16.8	.15	E.005	E.045	<.040	.039	1.6	18.4	<.04	<10
58N 01W 09BCD1	09-06-01	15.7	.19	<.006	E.025	<.040	.051	.7	5.3	E.03	20
59N 01W 09BCC1	07-06-01	17.3	.18	<.006	E.036	<.040	<.020	.6	12.8	<.04	<10
60N 05W 36ABB1	08-22-01	23.3	.07	<.006	.251	<.040	<.020	E.2	4.4	<.04	<10
BOUNDARY COUNTY											
60N 01E 07AAA1	08-28-01	29.0	.15	<.006	.129	<.040	<.020	E.2	E.5	.05	<10
61N 01E 06AAB1	08-28-01	16.8	.46	<.006	E.040	<.040	<.020	.5	33.3	<.04	110
62N 01E 12CAD1	08-28-01	28.4	.60	<.006	E14.8	<.040	.058	1.3	270	<.04	<10
62N 02E 14ACD1	08-28-01	20.9	.35	<.006	.137	<.040	E.009	.2	29.3	.06	<10
64N 01E 28DDC1	08-28-01	17.2	.32	<.006	.051	<.040	<.020	.2	16.8	.04	<10
65N 02E 34ABC1	08-10-01	17.0	.11	<.006	.076	E.024	<.020	<.2	4.4	<.04	<10
CANYON COUNTY											
01N 02W 04DDC1	08-14-01	32.4	.25	<.006	E.036	.116	<.020	8.2	9.2	<.04	<10
01N 02W 36CAA1	08-14-01	42.3	.48	.027	2.31	.154	<.020	1.6	7.7	<.04	<10
02N 01W 07AAB1	06-26-01	61.2	.52	<.006	2.41	<.040	.090	19.2	39.7	.37	<10
02N 02W 22CCA1	06-27-01	15.5	.65	.009	.078	.145	E.010	1.9	67.0	.05	20
02N 04W 13ACD1	06-27-01	64.8	1.33	.007	<.050	1.11	<.020	17.9	48.9	.05	1410
03N 01W 18DAC1	06-27-01	34.2	.54	.007	3.13	E.021	.024	1.2	87.8	.07	<10
03N 01W 19ADB1	08-16-01	46.0	.39	<.006	1.09	E.023	.037	3.2	68.8	<.04	<10
03N 01W 30ADD1	06-28-01	60.0	.49	.011	3.18	.041	.034	10.6	67.5	.07	<10
03N 02W 07DDD1	06-28-01	43.1	.38	.011	1.11	.051	.022	2.3	49.3	E.03	<10
03N 02W 29BBBB1	07-11-01	43.0	.41	<.006	1.26	<.040	E.013	2.7	65.3	<.04	<10
03N 03W 02DDDC1	07-02-01	50.9	.77	.007	8.94	E.029	.066	12.5	49.4	.08	<10
03N 03W 14CDA1	07-09-01	43.3	.86	.011	8.31	E.023	.018	5.9	83.6	.12	<10
03N 03W 22ABB1	07-02-01	20.0	.42	.007	.173	E.027	<.020	5.8	9.6	.09	10
03N 04W 04BDA1	07-03-01	61.3	.58	.007	7.99	E.028	.020	25.8	44.7	.08	<10
03N 04W 12AAD2	07-02-01	37.7	.29	E.005	E.025	.059	.018	19.7	73.5	.04	310
04N 02W 06BBC1	07-03-01	28.2	.14	E.005	.180	E.021	E.013	1.6	24.9	.06	<10
04N 02W 08ADD1	07-24-01	32.9	.13	<.006	.114	<.040	.025	1.2	26.2	<.04	<10
04N 02W 22DCD1	07-03-01	25.1	.12	E.005	.160	E.026	<.020	5.8	4.7	.07	<10
04N 02W 27AAB1	07-09-01	28.4	.79	.010	18.2	<.040	.049	1.0	167	<.04	<10
04N 03W 02ABBB1	07-09-01	43.3	.47	.010	1.95	<.040	.077	1.9	129	<.04	<10
04N 03W 06BABA1	07-10-01	45.8	.89	<.006	7.46	<.040	.079	12.5	44.5	.16	20
04N 03W 27CBAD1	08-16-01	43.4	.36	<.006	1.15	<.040	<.020	3.4	72.3	<.04	<10
04N 03W 30ADA1	07-10-01	23.8	.42	<.006	E.041	E.031	<.020	7.0	7.8	.04	20
04N 03W 36BAC1	07-11-01	27.9	.19	<.006	.277	<.040	E.012	5.5	28.2	.04	<10
04N 04W 21CAA2	07-24-01	73.8	.70	<.006	7.04	<.040	.030	23.6	53.7	<.04	<10
04N 04W 25DAA1	07-10-01	38.9	.78	<.006	9.26	<.040	E.011	9.2	33.9	.07	<10
04N 05W 21AAB2	07-12-01	66.5	.39	E.005	2.79	<.040	E.016	48.6	14.7	.06	<10
04N 05W 23BCC1	07-12-01	79.6	.62	.006	E.023	2.75	.200	.3	141	E.03	10
05N 02W 20DAC1	07-11-01	47.7	.60	<.006	1.14	<.040	.093	2.2	73.5	.08	20
05N 02W 24DAB2	07-24-01	37.1	.25	<.006	.551	<.040	.069	4.3	43.0	E.03	<10
05N 03W 04BCB1	08-14-01	47.7	.47	<.006	2.15	E.026	.026	3.8	145	<.04	<10
05N 04W 08BCC1	07-12-01	36.5	.19	.006	.476	<.040	.061	17.9	12.9	E.04	<10
05N 05W 32CDC1	07-12-01	63.3	.62	.006	8.60	<.040	.028	17.9	43.9	.04	<10
05N 06W 25CDD1	07-23-01	61.1	.71	.006	5.64	E.040	.028	42.4	58.0	.04	<10
06N 05W 07ABB2	07-25-01	40.3	.58	<.006	3.54	E.028	.099	7.6	51.6	E.03	<10
06N 05W 29DAD1	07-23-01	68.4	.53	<.006	3.30	<.040	E.011	15.5	26.0	<.04	20
CLEARWATER COUNTY											
36N 02E 03BDB1	08-28-01	29.0	.25	<.006	<.050	E.095	<.020	2.2	E.6	<.04	10
37N 01E 31DDC1	08-28-01	26.2	.22	<.006	E.545	<.040	E.125	.9	32.7	E.04	<10
CUSTER COUNTY											
10N 13E 09ADC1	09-05-01	25.4	.11	<.006	.257	<.040	.020	.2	1.0	.18	<10
11N 12E 10ADC1	09-04-01	18.0	.06	<.006	.157	<.040	<.020	E.1	1.8	.07	<10
11N 15E 20BCB1	09-04-01	16.1	.11	<.006	.088	<.040	E.013	.6	3.3	.09	10
12N 19E 19BAD1	08-09-01	14.7	.21	<.006	.163	<.040	<.020	.8	19.6	<.04	<10
14N 18E 35DCC1	09-11-01	15.7	.27	<.006	4.47	<.040	E.010	2.1	1.1	E.03	<10

QUALITY OF GROUND WATER

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	DATE	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)
		BONNER COUNTY	
56N 02W 09DBB2	07-17-01	E2.2	E.3
56N 02W 15CCB1	07-19-01	4.9	E.2
56N 03W 30BCB1	08-29-01	5.3	E.2
56N 03W 32BBD1	09-10-01	36.0	<.3
56N 04W 06BDD1	08-29-01	6.3	.5
56N 04W 19BCC1	08-29-01	169	<.3
57N 02W 16BAC1	07-06-01	48.8	<.3
58N 01W 09BCD1	09-06-01	81.7	<.3
59N 01W 09BCC1	07-06-01	5.4	<.3
60N 05W 36ABB1	08-22-01	E2.3	<.3
		BOUNDARY COUNTY	
60N 01E 07AAA1	08-28-01	<3.0	<.3
61N 01E 06AAB1	08-28-01	181	E.2
62N 01E 12CAD1	08-28-01	E2.3	E.2
62N 02E 14ACD1	08-28-01	<3.0	E.2
64N 01E 28DDC1	08-28-01	<3.0	E.2
65N 02E 34ABC1	08-10-01	<3.0	<.3
		CANYON COUNTY	
01N 02W 04DDC1	08-14-01	27.8	E.2
01N 02W 36CAA1	08-14-01	<3.0	.4
02N 01W 07AAB1	06-26-01	<3.0	.5
02N 02W 22CCA1	06-27-01	171	.6
02N 04W 13ACD1	06-27-01	458	.8
03N 01W 18DAC1	06-27-01	<3.0	.4
03N 01W 19ADB1	08-16-01	<3.0	<.3
03N 01W 30ADD1	06-28-01	<3.0	.4
03N 02W 07DDD1	06-28-01	<3.0	.6
03N 02W 29BBBB1	07-11-01	<3.0	.4
03N 03W 02DDDC1	07-02-01	<3.0	1.3
03N 03W 14CDA1	07-09-01	<3.0	1.3
03N 03W 22ABB1	07-02-01	<3.0	.5
03N 04W 04BDA1	07-03-01	<3.0	1.0
03N 04W 12AAD2	07-02-01	175	<.3
04N 02W 06BBC1	07-03-01	<3.0	<.3
04N 02W 08ADD1	07-24-01	<3.0	<.3
04N 02W 22DCD1	07-03-01	<3.0	E.2
04N 02W 27AAB1	07-09-01	<3.0	.4
04N 03W 02ABBB1	07-09-01	<3.0	1.2
04N 03W 06BABA1	07-10-01	<3.0	.9
04N 03W 27CBAD1	08-16-01	<3.0	.8
04N 03W 30ADA1	07-10-01	93.2	E.3
04N 03W 36BAC1	07-11-01	<3.0	<.3
04N 04W 21CAA2	07-24-01	<3.0	1.3
04N 04W 25DAA1	07-10-01	<3.0	2.1
04N 05W 21AAB2	07-12-01	<3.0	.6
04N 05W 23BCC1	07-12-01	183	E.3
05N 02W 20DAC1	07-11-01	E1.6	1.8
05N 02W 24DAB2	07-24-01	3.9	.9
05N 03W 04BCB1	08-14-01	<3.0	2.1
05N 04W 08BCC1	07-12-01	<3.0	<.3
05N 05W 32CDC1	07-12-01	<3.0	.6
05N 06W 25CDD1	07-23-01	89.1	3.5
06N 05W 07ABB2	07-25-01	45.4	.5
06N 05W 29DAD1	07-23-01	<3.0	.6
		CLEARWATER COUNTY	
36N 02E 03BDB1	08-28-01	<3.0	<.3
37N 01E 31DDC1	08-28-01	<3.0	E.3
		CUSTER COUNTY	
10N 13E 09ADC1	09-05-01	E1.9	<.3
11N 12E 10ADC1	09-04-01	<3.0	<.3
11N 15E 20BCB1	09-04-01	<3.0	<.3
12N 19E 19BAD1	08-09-01	<3.0	.4
14N 18E 35DCC1	09-11-01	<3.0	.4

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	SITE NUMBER	DATE	TIME	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)	COL FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
				CUSTER COUNTY						
14N 19E 33ABBD1	443021114131601	09-11-01	2040	522	6.6	21.0	11.5	.8	<1	270
15N 20E 18ACD1	443759114081801	07-18-01	1510	222	9.4	25.8	13.1	.7	<1	--
				ELMORE COUNTY						
01S 04E 34ADDA1	431742115571801	07-23-01	1245	242	7.9	30.5	20.9	5.2	<1	72
01S 08E 32CCD1S	431712115321101	08-01-01	1350	39	7.0	29.0	15.9	--	<1	10
02N 04E 34BCB1	432805115582301	07-27-01	1245	197	6.8	28.5	16.9	7.7	<1	69
02S 05E 15DCA1	431528115503601	07-31-01	1135	279	8.5	19.0	22.1	4.0	<1	68
03S 06E 27DDD1	430741115430001	08-01-01	0840	205	8.3	20.0	20.0	6.1	<1	71
03S 08E 06BBAA1	431154115331801	07-31-01	1520	122	6.9	23.0	20.0	6.1	<1	40
04S 03E 33ADDA1	430207116054901	08-09-01	1425	860	7.3	29.0	17.3	3.5	<1	200
04S 05E 09DCA1	430513115514101	08-08-01	1740	224	8.1	38.0	20.0	7.1	<1	72
04S 07E 17CAB1	430432115390501	08-02-01	0925	478	7.8	25.5	21.3	7.7	<1	180
05S 03E 02BAA1	430130116040501	08-09-01	1035	311	8.0	29.0	21.2	.3	<1	100
05S 06E 08ADD1	430016115452201	08-02-01	1655	201	7.8	40.5	23.6	.8	<1	60
05S 08E 36BDD2	425648115270801	08-02-01	1300	795	7.5	36.0	15.1	2.7	<1	320
05S 10E 30BDA1	425746115184701	08-03-01	1410	759	7.6	32.0	17.9	.00	<1	210
05S 11E 07BCBB1	430024115121001	08-03-01	1010	922	7.5	29.0	20.5	2.6	<1	280
				GEM COUNTY						
06N 01W 05CDD1	435248116290001	07-18-01	0925	279	6.7	18.5	15.7	.7	<1	95
07N 03W 28CDD1	435433116420501	07-18-01	1140	177	7.3	22.0	15.0	.4	<1	60
				IDAHO COUNTY						
24N 01E 22BCC1	452424116194801	08-30-01	1405	724	7.5	33.0	14.2	.5	--	270
28N 01E 15CBB1	454553116192901	08-30-01	1100	752	8.5	29.0	15.7	.3	--	36
29N 01W 01CAC1	455241116241101	08-30-01	0905	227	9.8	21.5	14.6	.6	--	7
30N 02E 13CBA1	455621116091601	08-29-01	1315	280	7.1	27.5	12.6	3.9	--	100
31N 01E 08ABB3	460314116212501	08-29-01	0920	272	7.3	20.0	12.1	1.6	--	100
31N 03E 36BCA1	455906116015301	08-29-01	1735	320	7.3	30.0	12.9	.5	--	130
32N 04E 29AAC1	460518115583701	08-29-01	1600	229	7.9	33.0	15.0	.5	--	73
33N 01W 27DBC1	461008116262601	08-29-01	1055	256	6.9	24.0	10.1	5.3	--	93
33N 04E 07CDC1	461237116002101	08-28-01	1650	1220	8.1	31.5	13.3	.6	<1	120
34N 03E 36CBCB1	461435116015701	08-28-01	1905	557	7.6	31.0	14.9	.5	<1	120
				KOOTENAI COUNTY						
47N 03W 24BAD1	472443116394001	09-05-01	1040	288	7.3	18.0	13.2	.6	<1	110
48N 03W 21DAC2	472913116430702	09-05-01	1235	220	6.9	19.0	12.6	.3	<1	83
49N 01E 32DAC1	473255116212301	09-05-01	0840	339	7.6	14.5	10.9	.2	<1	130
49N 01W 23DAD1	473437116245901	08-15-01	1420	144	8.1	38.0	11.2	.2	<1	51
50N 02W 30CDC1	473852116384901	08-15-01	1125	163	7.0	26.0	11.2	6.8	<1	66
50N 05W 01CBB1	474230116544901	07-23-01	1045	182	8.4	24.5	16.1	4.8	<1	87
51N 04W 15DBB1	474553116485701	08-16-01	0815	210	8.2	20.5	8.6	7.1	<1	100
51N 04W 19DCC3	474443116525701	08-15-01	0730	306	8.0	16.0	9.2	6.2	<1	150
51N 04W 25BBB2	474439116470501	07-26-01	1425	363	7.5	27.0	9.6	7.4	<1	180
52N 03W 18BAA1	475132116451501	09-05-01	1510	464	7.1	23.0	9.3	5.1	<1	230
53N 03W 29CCC1	475416116442601	08-31-01	0930	256	8.0	23.0	9.2	9.5	<1	130
53N 04W 30AAD1	475501116524001	08-31-01	1230	205	7.7	24.0	9.2	2.5	<1	80
				LATAH COUNTY						
37N 05W 12BDD1	463353116543101	07-10-01	0750	3	7.1	23.5	11.4	4.8	<1	130
38N 05W 28CBD1	463538116591501	07-10-01	1120	252	7.1	25.5	11.2	2.7	<1	110
39N 02W 05BCD1	464504116371101	07-11-01	1150	363	7.4	27.5	10.9	8.3	<1	170
39N 04W 16CBD1	464312116505501	07-11-01	0840	339	6.9	21.5	12.0	5.0	<1	140
39N 05W 15CBB1	464318116572601	07-10-01	1625	226	7.0	36.0	11.3	.2	<1	86
39N 06W 25BAA1	464202117020101	07-10-01	1410	302	7.3	28.5	12.1	3.4	<1	120
40N 02W 05ADA1	465037116361701	07-11-01	1425	299	6.8	27.5	11.2	6.2	<1	120
40N 05W 36DCC1	464540116541901	07-11-01	1725	345	6.8	25.0	11.6	5.3	<1	130
41N 03W 09CDB2	465432116434002	08-14-01	1055	344	6.9	30.0	9.7	.3	<1	150
41N 04W 06BAC1	465543116531501	08-13-01	1205	339	8.5	22.0	17.5	.2	<1	61
41N 04W 08AAA1	465459116512001	08-13-01	1500	344	8.2	32.0	11.7	.5	<1	49
41N 05W 08BBC1	465452116595301	08-14-01	0820	271	7.4	19.0	11.7	7.1	<1	110
42N 05W 27AAA1	475736116560301	08-13-01	1725	348	8.1	30.5	12.1	.4	<1	80
43N 04W 29BCD1	470228116522301	08-14-01	1405	357	7.3	30.0	9.5	6.6	<1	170

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	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)	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)	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)
CUSTER COUNTY											
14N 19E 33ABBD1	09-11-01	53.4	32.0	8.2	.72	280	.0	234	26.1	13.6	.2
15N 20E 18ACD1	07-18-01	2.15	E.008	47.3	<.09	32	39	91	19.8	9.5	3.3
ELMORE COUNTY											
01S 04E 34ADDA1	07-23-01	19.6	5.58	20.2	4.20	110	.0	93	10.5	6.2	.5
01S 08E 32CCD1S	08-01-01	2.77	.677	2.6	1.10	13	.0	10	1.6	.8	<.2
02N 04E 34BCB1	07-27-01	19.3	5.00	11.9	1.37	88	.0	72	7.3	4.3	.3
02S 05E 15DCA1	07-31-01	15.9	6.94	29.6	5.81	110	.0	93	18.0	9.2	.6
03S 06E 27DDD1	08-01-01	16.6	7.15	11.8	3.13	87	.0	71	11.3	5.2	.3
03S 08E 06BBAA1	07-31-01	10.7	3.20	5.6	4.62	88	.0	72	2.9	2.2	.4
04S 03E 33ADDA1	08-09-01	54.8	15.9	103	6.84	370	.0	300	51.3	36.8	.6
04S 05E 09DCA1	08-08-01	19.9	5.44	12.3	2.78	55	.0	45	33.0	12.3	E.1
04S 07E 17CAB1	08-02-01	38.9	19.6	21.6	4.23	140	.0	116	59.7	25.9	.3
05S 03E 02BAA1	08-09-01	27.7	7.39	21.9	5.75	130	.0	107	24.9	10.8	.3
05S 06E 08ADD1	08-02-01	18.2	3.57	13.9	5.07	100	.0	84	8.5	3.7	.6
05S 08E 36BDD2	08-02-01	71.4	34.4	34.0	6.89	220	.0	179	116	52.2	.8
05S 10E 30BDA1	08-03-01	28.8	33.7	77.9	6.93	320	.0	265	80.3	27.9	1.0
05S 11E 07BCBB1	08-03-01	79.8	19.5	89.9	5.83	320	.0	263	171	26.4	1.0
GEM COUNTY											
06N 01W 05CDD1	07-18-01	30.0	4.99	22.6	2.40	120	.0	97	26.6	7.6	.8
07N 03W 28CDD1	07-18-01	18.2	3.48	13.8	1.91	95	.0	78	8.2	2.3	.3
IDAHO COUNTY											
24N 01E 22BCC1	08-30-01	79.1	16.4	45.5	5.80	170	.0	142	222	5.0	1.4
28N 01E 15CBB1	08-30-01	13.2	.826	139	2.60	120	5	96	180	45.3	2.3
29N 01W 01CAC1	08-30-01	2.36	.343	43.8	.36	110	51	91	9.6	3.6	.7
30N 02E 13CBA1	08-29-01	25.6	9.35	19.3	2.12	160	.0	133	6.2	1.9	.6
31N 01E 08ABB3	08-29-01	25.4	9.72	16.6	1.96	150	.0	122	7.1	2.2	.6
31N 03E 36BCA1	08-29-01	25.2	15.7	19.8	3.07	190	.0	153	11.7	2.3	.5
32N 04E 29AAC1	08-29-01	17.6	7.00	18.6	3.66	120	.0	103	10.9	2.5	.4
33N 01W 27DBC1	08-29-01	24.3	7.87	20.7	2.05	160	.0	129	3.1	1.0	.2
33N 04E 07CDC1	08-28-01	44.6	1.33	194	1.67	170	.0	140	206	153	2.5
34N 03E 36CBCB1	08-28-01	35.6	7.33	68.2	2.45	220	.0	180	71.3	19.5	.6
KOOTENAI COUNTY											
47N 03W 24BAD1	09-05-01	30.4	7.40	14.5	1.50	120	.0	95	40.7	.8	.4
48N 03W 21DAC2	09-05-01	14.3	11.5	9.5	2.28	120	.0	99	7.8	1.7	.2
49N 01E 32DAC1	09-05-01	34.7	10.3	17.7	1.50	150	.0	120	12.1	10.5	.3
49N 01W 23DAD1	08-15-01	13.7	4.08	9.0	1.64	88	.0	72	2.8	.6	<.2
50N 02W 30CDC1	08-15-01	8.74	10.6	6.9	2.04	98	.0	80	.9	.9	.2
50N 05W 01CBB1	07-23-01	23.2	7.01	2.4	1.63	100	.0	82	5.5	2.4	<.2
51N 04W 15DBB1	08-16-01	24.4	10.2	2.4	1.58	120	.0	99	4.5	1.6	<.2
51N 04W 19DCC3	08-15-01	33.2	17.5	2.5	1.96	170	.0	137	14.2	1.1	<.2
51N 04W 25BBB2	07-26-01	46.2	15.5	4.1	2.20	190	.0	158	9.9	5.4	<.2
52N 03W 18BAA1	09-05-01	76.5	10.4	2.8	3.45	270	.0	224	6.4	4.0	<.2
53N 03W 29CCC1	08-31-01	32.1	11.1	2.8	1.68	140	.0	117	5.3	1.8	<.2
53N 04W 30AAD1	08-31-01	28.0	2.50	10.4	1.39	100	.0	83	13.7	.9	.3
LATAH COUNTY											
37N 05W 12BDD1	07-10-01	32.9	10.7	17.1	1.64	170	.0	142	3.6	1.4	.2
38N 05W 28CBD1	07-10-01	27.7	9.96	10.4	1.53	150	.0	126	1.7	.8	.2
39N 02W 05BCD1	07-11-01	36.1	19.0	9.2	4.01	230	.0	192	1.6	.5	.3
39N 04W 16CBD1	07-11-01	34.9	12.9	14.0	2.61	180	.0	151	6.8	1.8	.4
39N 05W 15CBB1	07-10-01	20.7	8.24	10.2	2.40	120	.0	99	10.3	1.8	.4
39N 06W 25BAA1	07-10-01	32.2	9.35	13.4	2.03	150	.0	123	26.3	.7	.5
40N 02W 05ADA1	07-11-01	30.3	10.2	12.0	1.74	160	.0	128	5.6	4.7	.4
40N 05W 36DCC1	07-11-01	37.0	9.63	18.2	1.09	180	.0	152	7.1	2.2	.4
41N 03W 09CDB2	08-14-01	33.3	15.9	15.1	1.88	180	.0	151	23.9	1.4	.2
41N 04W 06BAC1	08-13-01	17.5	4.23	54.4	2.38	170	.0	138	8.8	2.8	.3
41N 04W 08AAA1	08-13-01	13.5	3.60	62.7	2.09	210	.0	174	4.4	2.0	.2
41N 05W 08BBC1	08-14-01	27.3	10.6	11.2	1.87	140	.0	113	8.5	2.9	.3
42N 05W 27AAA1	08-13-01	18.2	8.40	48.2	4.59	220	.0	177	4.4	2.3	.3
43N 04W 29BCD1	08-14-01	45.9	14.3	8.6	1.53	220	.0	178	5.7	2.0	.2

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
CUSTER COUNTY											
14N 19E 33ABBD1	09-11-01	19.6	.41	<.006	1.97	<.040	<.020	<.2	21.1	E.02	10
15N 20E 18ACD1	07-18-01	14.7	--	.009	2.02	<.040	.096	4.7	<.9	E.02	<10
ELMORE COUNTY											
01S 04E 34ADDA1	07-23-01	58.7	.25	E.003	.722	<.040	E.015	3.3	20.1	.49	60
01S 08E 32CCD1S	08-01-01	25.1	.06	<.006	1.19	<.040	<.020	<.2	25.8	.17	10
02N 04E 34BCB1	07-27-01	59.9	.22	<.006	2.40	<.040	.073	1.7	4.3	.07	<10
02S 05E 15DCA1	07-31-01	46.1	.26	<.006	1.17	<.040	<.020	2.1	10.2	.18	<10
03S 06E 27DDD1	08-01-01	35.9	.19	<.006	1.56	<.040	E.015	1.9	1.8	.16	<10
03S 08E 06BBAA1	07-31-01	82.0	.22	<.006	.790	<.040	.087	1.2	15.1	.10	<10
04S 03E 33ADDA1	08-09-01	48.5	.73	<.006	8.71	E.033	.086	6.4	29.2	.57	<10
04S 05E 09DCA1	08-08-01	32.5	.21	<.006	1.77	E.026	E.011	.7	8.3	.11	<10
04S 07E 17CAB1	08-02-01	46.0	.41	<.006	3.62	<.040	<.020	1.9	11.2	.06	<10
05S 03E 02BAA1	08-09-01	45.9	.29	<.006	.350	E.034	<.020	5.9	32.5	E.03	<10
05S 06E 08ADD1	08-02-01	70.7	.24	<.006	E.033	E.021	E.009	13.3	75.5	.10	<10
05S 08E 36BDD2	08-02-01	71.2	.70	<.006	5.08	<.040	E.014	30.4	50.0	.67	<10
05S 10E 30BDA1	08-03-01	57.9	.65	<.006	.723	E.031	.095	33.0	22.1	.19	<10
05S 11E 07BCBB1	08-03-01	30.2	.79	<.006	.054	.129	<.020	2.6	13.9	.35	50
GEM COUNTY											
06N 01W 05CDD1	07-18-01	24.7	.24	.008	.157	.047	.051	1.3	5.2	<.04	160
07N 03W 28CDD1	07-18-01	31.4	.17	E.004	.049	<.040	.047	5.2	11.7	E.02	<10
IDAHO COUNTY											
24N 01E 22BCC1	08-30-01	18.9	.65	<.006	<.050	E.029	<.020	<.2	9.4	<.04	480
28N 01E 15CBB1	08-30-01	34.3	.65	<.006	E.032	<.040	<.020	22.0	4.0	<.04	<10
29N 01W 01CAC1	08-30-01	32.2	.27	E.003	.355	<.040	<.020	1.7	<.9	<.04	10
30N 02E 13CBA1	08-29-01	44.8	.26	<.006	E.506	<.040	E.063	E.1	9.9	<.04	<10
31N 01E 08ABB3	08-29-01	48.8	.25	<.006	E.458	<.040	E.027	.3	9.6	E.02	200
31N 03E 36BCA1	08-29-01	47.6	.30	<.006	<.050	<.040	E.009	.2	68.6	<.04	370
32N 04E 29AAC1	08-29-01	40.3	.22	<.006	<.050	<.040	E.019	.4	2.8	<.04	<10
33N 01W 27DBC1	08-29-01	41.0	.24	<.006	E1.01	<.040	E.071	.5	53.7	<.04	<10
33N 04E 07CDC1	08-28-01	12.6	.95	<.006	<.050	E.460	<.020	86.1	7.4	E.03	80
34N 03E 36CBCB1	08-28-01	19.7	.45	E.004	<.050	E.415	E.016	7.3	30.4	<.04	<10
KOOTENAI COUNTY											
47N 03W 24BAD1	09-05-01	31.2	.25	<.006	<.050	<.040	<.020	2.4	9.1	E.02	300
48N 03W 21DAC2	09-05-01	38.4	.20	E.010	<.050	<.040	<.020	.5	101	<.04	3610
49N 01E 32DAC1	09-05-01	15.5	.24	<.006	E3.94	<.040	<.020	4.5	2.5	E.03	40
49N 01W 23DAD1	08-15-01	11.8	.12	<.006	<.050	.093	.025	.3	155	<.04	340
50N 02W 30CDC1	08-15-01	53.4	.18	E.004	E.029	.042	.039	<.2	70.3	<.04	3030
50N 05W 01CBB1	07-23-01	14.8	.15	<.006	.625	<.040	<.020	.9	24.7	<.04	<10
51N 04W 15DBB1	08-16-01	11.3	.16	<.006	.800	E.030	<.020	1.0	13.2	<.04	<10
51N 04W 19DCC3	08-15-01	11.4	.23	<.006	1.08	E.029	<.020	2.5	28.5	.04	<10
51N 04W 25BBB2	07-26-01	16.3	.27	<.006	1.66	<.040	E.013	2.7	25.6	<.04	<10
52N 03W 18BAA1	09-05-01	19.9	.36	<.006	.883	<.040	<.020	.8	55.6	E.02	<10
53N 03W 29CCC1	08-31-01	13.3	.19	<.006	E.478	<.040	<.020	2.2	26.2	<.04	<10
53N 04W 30AAD1	08-31-01	26.4	.18	<.006	E.031	<.040	<.020	<.2	7.1	<.04	140
LATAH COUNTY											
37N 05W 12BDD1	07-10-01	49.5	.30	<.006	4.38	<.040	.094	.3	40.1	<.04	<10
38N 05W 28CBD1	07-10-01	54.0	.25	<.006	.169	<.040	.103	<.2	11.6	<.04	<10
39N 02W 05BCD1	07-11-01	49.1	.32	<.006	.385	<.040	.083	.2	10.1	E.03	<10
39N 04W 16CBD1	07-11-01	56.1	.32	<.006	3.42	<.040	.128	.2	24.6	E.02	<10
39N 05W 15CBB1	07-10-01	59.8	.24	E.003	<.050	<.040	.076	E.2	87.0	<.04	1100
39N 06W 25BAA1	07-10-01	30.1	.26	<.006	.128	<.040	.034	.6	35.6	.07	<10
40N 02W 05ADA1	07-11-01	44.7	.28	<.006	3.42	<.040	E.016	.3	133	.05	<10
40N 05W 36DCC1	07-11-01	37.9	.30	E.003	3.56	<.040	E.015	E.1	24.2	.05	<10
41N 03W 09CDB2	08-14-01	28.4	.29	<.006	E.033	<.040	<.020	<.2	19.0	<.04	260
41N 04W 06BAC1	08-13-01	18.2	.26	<.006	E.029	E.035	E.017	.4	3.3	E.03	10
41N 04W 08AAA1	08-13-01	15.5	.28	<.006	E.026	E.029	E.014	.3	26.4	<.04	20
41N 05W 08BBC1	08-14-01	48.6	.26	<.006	3.05	<.040	.072	.3	11.9	E.03	<10
42N 05W 27AAA1	08-13-01	45.7	.33	<.006	E.027	.044	.129	<.2	58.6	<.04	220
43N 04W 29BCD1	08-14-01	25.6	.29	<.006	.055	<.040	.032	.5	56.2	<.04	40

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	DATE	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)
		CUSTER COUNTY	
14N 19E 33ABBD1	09-11-01	7.4	<.3
15N 20E 18ACD1	07-18-01	<3.0	<.3
		ELMORE COUNTY	
01S 04E 34ADDA1	07-23-01	<3.0	.4
01S 08E 32CCD1S	08-01-01	<3.0	<.3
02N 04E 34BCB1	07-27-01	<3.0	<.3
02S 05E 15DCA1	07-31-01	<3.0	.5
03S 06E 27DDD1	08-01-01	<3.0	<.3
03S 08E 06BBAA1	07-31-01	<3.0	E.3
04S 03E 33ADDA1	08-09-01	<3.0	.7
04S 05E 09DCA1	08-08-01	<3.0	E.3
04S 07E 17CAB1	08-02-01	<3.0	1.3
05S 03E 02BAA1	08-09-01	8.4	E.2
05S 06E 08ADD1	08-02-01	10.3	E.3
05S 08E 36BDD2	08-02-01	4.2	2.3
05S 10E 30BDA1	08-03-01	102	3.2
05S 11E 07BCBB1	08-03-01	91.7	E.2
		GEM COUNTY	
06N 01W 05CDD1	07-18-01	62.7	<.3
07N 03W 28CDD1	07-18-01	<3.0	<.3
		IDAHO COUNTY	
24N 01E 22BCC1	08-30-01	17.9	<.3
28N 01E 15CBB1	08-30-01	E1.6	<.3
29N 01W 01CAC1	08-30-01	<3.0	<.3
30N 02E 13CBA1	08-29-01	<3.0	.9
31N 01E 08ABB3	08-29-01	24.2	<.3
31N 03E 36BCA1	08-29-01	30.9	<.3
32N 04E 29AAC1	08-29-01	9.8	<.3
33N 01W 27DBC1	08-29-01	<3.0	E.3
33N 04E 07CDC1	08-28-01	61.3	<.3
34N 03E 36CBCB1	08-28-01	111	<.3
		KOOTENAI COUNTY	
47N 03W 24BAD1	09-05-01	202	<.3
48N 03W 21DAC2	09-05-01	393	<.3
49N 01E 32DAC1	09-05-01	128	E.3
49N 01W 23DAD1	08-15-01	110	<.3
50N 02W 30CDC1	08-15-01	30.7	E.2
50N 05W 01CBB1	07-23-01	<3.0	<.3
51N 04W 15DBB1	08-16-01	<3.0	<.3
51N 04W 19DCC3	08-15-01	<3.0	E.3
51N 04W 25BBB2	07-26-01	<3.0	<.3
52N 03W 18BAA1	09-05-01	<3.0	<.3
53N 03W 29CCC1	08-31-01	<3.0	<.3
53N 04W 30AAD1	08-31-01	40.7	<.3
		LATAH COUNTY	
37N 05W 12BDD1	07-10-01	<3.0	E.2
38N 05W 28CBD1	07-10-01	4.2	E.2
39N 02W 05BCD1	07-11-01	<3.0	.7
39N 04W 16CBD1	07-11-01	<3.0	.6
39N 05W 15CBB1	07-10-01	68.1	<.3
39N 06W 25BAA1	07-10-01	E2.0	.9
40N 02W 05ADA1	07-11-01	4.9	.3
40N 05W 36DCC1	07-11-01	28.1	E.2
41N 03W 09CDB2	08-14-01	19.6	<.3
41N 04W 06BAC1	08-13-01	17.9	<.3
41N 04W 08AAA1	08-13-01	30.8	<.3
41N 05W 08BBC1	08-14-01	<3.0	E.3
42N 05W 27AAA1	08-13-01	62.0	<.3
43N 04W 29BCD1	08-14-01	E1.7	<.3

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	SITE NUMBER	DATE	TIME	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)	COL FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
LEWIS COUNTY										
34N 01E 16CBB1	461719116204801	09-25-01	1000	358	7.9	22.0	11.8	.1	<1	130
34N 01W 18DDD1	461657116293801	09-25-01	1200	292	7.3	24.5	10.3	11.0	<1	120
34N 02W 10ACA1	461832116332901	09-24-01	1745	499	7.1	29.0	9.6	8.2	<1	240
34N 02W 31DAA1	461437116370801	09-25-01	1345	296	7.5	19.0	12.1	--	<1	120
NEZ PERCE COUNTY										
33N 03W 32ABA1	460951116434001	08-27-01	0855	96	6.7	22.5	13.2	3.3	<1	44
33N 04W 09DBB1	471301116503001	08-27-01	1845	75	6.8	27.0	8.5	3.2	<1	30
35N 05W 02CCA1	462405116560001	08-26-01	2030	603	8.0	33.0	17.3	4.7	<1	190
36N 02W 31DBA1	462513116372701	08-27-01	1155	305	7.4	29.5	15.8	7.2	<1	120
36N 03W 10DAD1	462835116410301	08-27-01	1700	233	7.4	33.0	12.8	4.9	<1	94
36N 04W 23CBB1	462654116483701	09-24-01	1530	435	7.6	32.0	16.0	8.3	<1	190
37N 02W 34BAD1	463042116335701	08-27-01	1550	204	6.7	34.5	14.3	5.7	<1	--
37N 03W 03ABB1	463506116414501	08-28-01	0825	364	7.8	19.5	17.9	6.4	<1	170
37N 03W 34DBB1	463021116412701	08-27-01	1400	305	8.0	34.0	16.6	1.8	<1	110
OWYHEE COUNTY										
02N 04W 04ADA1	433226116484201	07-17-01	1150	1190	7.5	22.7	22.0	.8	<1	250
02N 04W 26CCD1	432826116471001	07-25-01	1345	2670	7.0	33.0	17.4	2.0	<1	680
03N 04W 19CBA1	433452116515401	07-17-01	1025	929	7.6	21.5	17.0	.5	<1	290
03N 06W 13BCA1	433548117001801	07-17-01	1425	2900	7.3	26.5	22.1	2.5	<1	580
04S 01W 24DCC1	430320116241001	08-07-01	1600	228	7.9	38.0	14.9	1.9	<1	95
04S 02W 11ABA1	430547116321601	08-07-01	1240	218	7.4	32.0	19.3	1.7	<1	68
05S 01E 16ACC2	425926116202802	08-08-01	1415	308	7.7	39.5	18.4	.00	<1	120
05S 03E 22BBB2	425854116054101	08-08-01	0935	723	7.7	28.0	17.9	5.6	<1	210
05S 04E 32DCB1	425632116001201	08-10-01	1405	876	7.4	35.0	18.6	.00	<1	280
06S 04E 15CDD1	425346115575801	08-10-01	1005	975	7.6	29.0	18.2	.00	<1	300
PAYETTE COUNTY										
06N 04W 35ADC1	433858116463401	07-19-01	1210	421	7.0	25.0	17.2	5.6	<1	170
07N 03W 09CDB1	435717116422001	07-18-01	1605	403	7.0	28.0	15.2	.3	<1	130
07N 04W 13CBB1	435643116461701	07-18-01	1420	165	9.1	26.0	17.8	.2	<1	18
08N 04W 03AAD1	440354116473001	07-19-01	1435	505	7.8	28.5	19.6	.3	<1	190
08N 05W 09DAD1	440240116560101	08-20-01	1450	645	7.7	31.0	15.6	.7	<1	180
09N 03W 12BDA1	440803116383501	08-20-01	0930	349	6.6	24.0	18.5	.8	<1	130
09N 05W 26CBB1	440517116544101	08-20-01	1225	1030	7.3	29.5	15.0	3.7	<1	350
SHOSHONE COUNTY										
45N 03E 04DCC1	471607116045301	07-25-01	1315	107	6.4	25.0	8.4	3.1	<1	46
45N 03E 14AAA2	471507116015401	07-25-01	1040	193	7.7	22.5	9.0	1.5	<1	67
48N 04E 20CAA1	472939115583701	07-24-01	1530	251	6.5	26.0	9.4	5.6	<1	110
49N 01E 36DCC1	473241116162101	09-05-01	0710	75	6.7	11.5	13.5	3.3	<1	30
VALLEY COUNTY										
11N 03E 01DDC1	441834116022101	08-01-01	1125	98	6.3	24.0	9.7	3.5	<1	29
12N 04E 04CBC1	442401115594801	07-31-01	1240	51	5.8	21.5	9.7	.7	<1	12
13N 03E 13AAC1	442758116022401	08-22-01	1135	80	6.6	27.5	14.0	5.0	<1	21
17N 03E 10AADD1	444947116040201	07-31-01	0920	48	5.5	14.0	9.6	1.2	<1	17
17N 03E 26ADD1	444637116024801	07-31-01	1035	136	6.3	18.0	8.9	.5	<1	32
18N 03E 15CCB1	445335116050301	07-30-01	1600	138	6.9	15.0	8.7	7.3	<1	51
WASHINGTON COUNTY										
10N 05W 05DAA1	441350116570801	08-15-01	1455	892	7.1	37.0	12.8	1.1	<1	270
11N 05W 21CDB1	441610116564501	08-13-01	1140	1050	6.9	33.5	15.8	.3	<1	160
11N 05W 29CBB1	441534116582101	08-13-01	1620	829	7.3	31.5	14.2	5.9	<1	250
11N 06W 14BCD1	441721117014801	08-15-01	1250	2380	6.7	35.0	14.4	4.0	<1	7
12N 04W 19CACC1	442130116520201	08-13-01	1425	256	6.7	33.0	14.7	.3	<1	100
12N 05W 24DCD1	442121116524101	08-15-01	1025	500	7.0	32.5	15.9	7.5	<1	49
14N 03W 03DCA1	443430116405501	08-01-01	1605	226	7.7	32.5	17.0	.8	<1	11

QUALITY OF GROUND WATER

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	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)	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)	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)
LEWIS COUNTY											
34N 01E 16CBB1	09-25-01	26.6	16.6	26.7	4.60	210	.0	173	10.6	3.7	.5
34N 01W 18DDD1	09-25-01	33.0	9.26	17.1	.91	170	.0	142	3.0	1.0	.6
34N 02W 10ACA1	09-24-01	64.0	19.7	18.8	3.16	300	.0	249	6.1	3.8	.5
34N 02W 31DAA1	09-25-01	27.5	13.0	18.8	2.66	180	.0	146	8.1	2.0	.4
NEZ PERCE COUNTY											
33N 03W 32ABA1	08-27-01	10.0	4.56	4.6	1.54	64	.0	52	.8	.7	.2
33N 04W 09DBB1	08-27-01	7.04	2.92	3.3	1.49	39	.0	32	1.3	.8	<.2
35N 05W 02CCA1	08-26-01	35.5	24.4	61.5	7.14	240	.0	199	70.7	26.2	.7
36N 02W 31DBA1	08-27-01	31.8	10.3	15.9	1.17	140	.0	116	14.2	2.3	.3
36N 03W 10DAD1	08-27-01	21.8	9.71	13.4	3.45	140	.0	114	3.9	2.0	.4
36N 04W 23CBB1	09-24-01	39.2	21.1	21.1	3.19	210	.0	173	13.3	7.6	.5
37N 02W 34BAD1	08-27-01	--	--	--	--	77	.0	63	--	--	--
37N 03W 03ABB1	08-28-01	39.8	17.3	21.3	3.93	210	.0	170	12.4	8.6	.3
37N 03W 34DBB1	08-27-01	22.6	12.1	26.9	3.08	170	.0	137	15.6	1.7	.4
OWYHEE COUNTY											
02N 04W 04ADA1	07-17-01	60.2	23.6	179	12.6	540	.0	446	91.2	56.8	1.5
02N 04W 26CCD1	07-25-01	155	70.7	348	33.4	570	.0	464	686	146	.5
03N 04W 19CBA1	07-17-01	78.4	22.3	68.9	20.1	220	.0	185	198	59.0	.6
03N 06W 13BCA1	07-17-01	172	36.4	471	28.4	440	.0	363	1080	82.5	1.1
04S 01W 24DCC1	08-07-01	34.7	2.01	7.5	2.36	120	.0	102	7.9	2.4	.2
04S 02W 11ABA1	08-07-01	20.0	4.43	15.3	5.15	93	.0	76	20.3	5.1	.4
05S 01E 16ACC2	08-08-01	41.7	3.46	13.3	5.08	140	.0	116	29.6	3.4	.5
05S 03E 22BBB2	08-08-01	45.1	23.2	60.8	9.75	240	.0	196	85.4	36.9	.8
05S 04E 32DCB1	08-10-01	84.0	16.6	64.2	19.3	200	.0	168	221	29.5	1.0
06S 04E 15CDD1	08-10-01	105	9.98	69.6	16.2	190	.0	157	282	17.2	1.2
PAYETTE COUNTY											
06N 04W 35ADC1	07-19-01	49.5	12.2	19.8	3.80	150	.0	121	54.0	23.1	.2
07N 03W 09CDB1	07-18-01	39.6	8.78	41.2	1.76	240	.0	197	19.6	2.0	.5
07N 04W 13CBB1	07-18-01	6.99	.075	31.6	.61	72	10	76	5.8	1.4	.3
08N 04W 03AAD1	07-19-01	45.7	18.5	38.0	2.89	260	.0	211	42.4	9.4	.2
08N 05W 09DAD1	08-20-01	41.2	19.7	57.4	10.9	340	.0	277	34.7	15.6	.3
09N 03W 12BDA1	08-20-01	31.6	11.6	18.4	11.0	150	.0	121	45.5	5.2	.5
09N 05W 26CBB1	08-20-01	97.7	26.0	105	3.90	540	.0	439	101	17.4	.2
SHOSHONE COUNTY											
45N 03E 04DCC1	07-25-01	13.7	2.87	3.3	1.16	56	.0	46	2.0	3.2	<.2
45N 03E 14AAA2	07-25-01	19.8	4.13	14.0	1.57	110	.0	90	4.1	2.6	.5
48N 04E 20CAA1	07-24-01	29.6	8.32	4.0	1.21	88	.0	72	29.1	10	<.2
49N 01E 36DCC1	09-05-01	7.26	2.96	4.0	.67	38	.0	31	5.2	.6	<.2
VALLEY COUNTY											
11N 03E 01DDC1	08-01-01	10.3	.860	8.9	1.00	60	.0	49	.8	.9	<.2
12N 04E 04CBC1	07-31-01	3.81	.706	5.3	.59	27	.0	22	.4	.4	<.2
13N 03E 13AAC1	08-22-01	6.92	.807	8.8	.61	45	.0	37	.5	.6	E.1
17N 03E 10AADD1	07-31-01	5.40	.916	2.5	1.04	31	.0	25	.4	.3	<.2
17N 03E 26ADD1	07-31-01	8.29	2.76	7.1	1.99	85	.0	70	E.1	.8	E.1
18N 03E 15CCB1	07-30-01	11.6	5.44	4.7	3.07	44	.0	36	2.1	3.6	<.2
WASHINGTON COUNTY											
10N 05W 05DAA1	08-15-01	67.9	23.9	101	8.86	460	.0	374	88.5	9.1	.5
11N 05W 21CDB1	08-13-01	48.9	9.28	120	34.4	260	.0	217	278	7.3	.3
11N 05W 29CBB1	08-13-01	76.2	14.1	81.9	9.00	340	.0	282	70.0	23.0	.4
11N 06W 14BCD1	08-15-01	2.10	.470	521	1.19	380	.0	310	451	149	.2
12N 04W 19CACC1	08-13-01	26.9	8.36	25.5	3.32	130	.0	109	36.5	5.5	.8
12N 05W 24DCD1	08-15-01	16.1	2.17	84.3	5.62	170	.0	142	85.8	4.4	.2
14N 03W 03DCA1	08-01-01	2.44	1.13	44.5	3.74	120	.0	102	7.8	3.0	.5

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
LEWIS COUNTY											
34N 01E 16CBB1	09-25-01	47.4	.33	<.006	.107	<.040	.029	.4	9.9	<.04	<10
34N 01W 18DDD1	09-25-01	49.3	.27	<.006	.099	E.038	.026	E.1	22.7	<.04	<10
34N 02W 10ACA1	09-24-01	52.9	.44	<.006	1.18	<.040	.066	E.1	6.6	<.04	<10
34N 02W 31DAA1	09-25-01	59.9	.30	<.006	E.026	<.040	.050	<.2	9.5	<.04	1480
NEZ PERCE COUNTY											
33N 03W 32ABA1	08-27-01	43.3	.13	<.006	.060	<.040	.041	<.2	3.6	<.04	20
33N 04W 09DBB1	08-27-01	31.3	.09	<.006	.206	E.021	.030	E.1	4.8	<.04	200
35N 05W 02CCA1	08-26-01	46.7	.55	<.006	2.46	<.040	E.015	4.1	35.1	E.03	10
36N 02W 31DBA1	08-27-01	60.6	.28	<.006	E5.57	<.040	.064	E.2	28.7	<.04	<10
36N 03W 10DAD1	08-27-01	60.2	.25	<.006	.572	<.040	.056	.7	4.9	E.02	<10
36N 04W 23CBB1	09-24-01	44.1	.39	<.006	6.88	<.040	E.017	1.0	2.2	<.04	<10
37N 02W 34BAD1	08-27-01	--	--	<.006	E4.47	<.040	E.103	--	--	--	--
37N 03W 03ABB1	08-28-01	39.7	.33	<.006	E2.08	<.040	E.050	.8	6.4	<.04	<10
37N 03W 34DBB1	08-27-01	29.0	.26	<.006	.069	<.040	.022	.5	<.9	.07	<10
OWYHEE COUNTY											
02N 04W 04ADA1	07-17-01	67.2	1.06	.083	2.73	2.73	.658	4.3	85.3	.16	20
02N 04W 26CCD1	07-25-01	69.1	2.56	<.006	21.7	<.040	.027	42.7	27.7	.13	<10
03N 04W 19CBA1	07-17-01	59.3	.85	.009	<.050	3.89	.026	13.1	40.1	.06	30
03N 06W 13BCA1	07-17-01	61.0	2.97	.009	6.21	<.040	.119	49.4	21.9	.21	<10
04S 01W 24DCC1	08-07-01	59.1	.24	<.006	.181	.066	.072	4.4	20.7	.08	<10
04S 02W 11ABA1	08-07-01	70.6	.25	<.006	.074	E.030	.019	16.9	27.7	.16	<10
05S 01E 16ACC2	08-08-01	48.4	.29	<.006	E.023	.204	<.020	80.8	13.6	.12	160
05S 03E 22BBB2	08-08-01	46.4	.61	<.006	4.39	E.024	.021	15.4	75.1	.23	<10
05S 04E 32DCB1	08-10-01	77.9	.84	<.006	.135	3.22	.028	10.8	29.7	.84	180
06S 04E 15CDD1	08-10-01	76.0	.92	<.006	E.033	3.28	<.020	.2	13.8	E.03	680
PAYETTE COUNTY											
06N 04W 35ADC1	07-19-01	55.7	.40	<.006	.847	<.040	.032	8.1	66.7	<.04	10
07N 03W 09CDB1	07-18-01	43.0	.37	E.004	E.025	<.040	E.016	2.7	60.2	<.04	270
07N 04W 13CBB1	07-18-01	15.0	.15	E.004	<.050	.088	.029	2.5	E.8	<.04	<10
08N 04W 03AAD1	07-19-01	30.8	.43	<.006	<.050	.838	.046	.6	14.0	<.04	20
08N 05W 09DAD1	08-20-01	59.3	.56	<.006	<.050	6.19	.178	.4	85.4	<.04	60
09N 03W 12BDA1	08-20-01	73.6	.37	<.006	<.050	.058	.088	9.4	106	<.04	1190
09N 05W 26CBB1	08-20-01	36.4	.90	<.006	2.62	<.040	.033	2.7	35.2	<.04	10
SHOSHONE COUNTY											
45N 03E 04DCC1	07-25-01	14.1	.09	<.006	.107	<.040	<.020	<.2	12.7	E.03	<10
45N 03E 14AAA2	07-25-01	17.5	.16	<.006	.068	<.040	<.020	.6	17.9	<.04	<10
48N 04E 20CAA1	07-24-01	11.3	.19	<.006	.318	<.040	<.020	E.1	87.4	18.6	60
49N 01E 36DCC1	09-05-01	11.6	.07	E.003	E.072	<.040	<.020	E.2	41.5	.23	20
VALLEY COUNTY											
11N 03E 01DDC1	08-01-01	42.5	.13	<.006	.051	<.040	.019	<.2	36.8	E.02	330
12N 04E 04CBC1	07-31-01	30.7	.08	<.006	.403	<.040	<.020	<.2	22.1	<.04	280
13N 03E 13AAC1	08-22-01	44.7	.12	<.006	.125	<.040	.130	E.1	3.9	E.02	<10
17N 03E 10AADD1	07-31-01	18.2	.06	<.006	.140	<.040	<.020	<.2	9.3	<.04	760
17N 03E 26ADD1	07-31-01	49.5	--	.006	E.045	1.15	.385	1.0	146	<.04	9870
18N 03E 15CCB1	07-30-01	53.3	.18	<.006	6.33	<.040	.108	.8	6.3	<.04	<10
WASHINGTON COUNTY											
10N 05W 05DAA1	08-15-01	38.9	.79	.007	3.14	E.033	.171	3.6	108	.08	<10
11N 05W 21CDB1	08-13-01	96.1	1.01	.010	.114	13.8	.081	13.2	41.2	.09	120
11N 05W 29CBB1	08-13-01	54.8	.74	<.006	10.3	.051	.098	19.3	115	<.04	<10
11N 06W 14BCD1	08-15-01	42.8	2.08	<.006	39.3	.046	.095	4.0	<3.0	<.04	<30
12N 04W 19CACC1	08-13-01	72.3	.34	E.003	.063	.146	.168	41.1	92.2	E.03	1360
12N 05W 24DCD1	08-15-01	34.3	.44	E.004	.129	2.19	.123	10.8	19.2	<.04	820
14N 03W 03DCA1	08-01-01	51.4	.24	<.006	.058	.391	.107	1.9	42.7	<.04	90

QUALITY OF GROUND WATER

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	DATE	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)
		LEWIS COUNTY	
34N 01E 16CBB1	09-25-01	<3.0	<.3
34N 01W 18DDD1	09-25-01	<3.0	<.3
34N 02W 10ACA1	09-24-01	<3.0	.8
34N 02W 31DAA1	09-25-01	43.8	<.3
		NEZ PERCE COUNTY	
33N 03W 32ABA1	08-27-01	E2.0	<.3
33N 04W 09DBB1	08-27-01	E1.7	<.3
35N 05W 02CCA1	08-26-01	E2.0	2.1
36N 02W 31DBA1	08-27-01	<3.0	E.3
36N 03W 10DAD1	08-27-01	<3.0	E.2
36N 04W 23CBB1	09-24-01	<3.0	<.3
37N 02W 34BAD1	08-27-01	--	--
37N 03W 03ABB1	08-28-01	E3.1	.3
37N 03W 34DBB1	08-27-01	<3.0	<.3
		OWYHEE COUNTY	
02N 04W 04ADA1	07-17-01	24.4	1.7
02N 04W 26CCD1	07-25-01	7.2	29.9
03N 04W 19CBA1	07-17-01	226	E.2
03N 06W 13BCA1	07-17-01	<3.0	9.9
04S 01W 24DCC1	08-07-01	5.8	<.3
04S 02W 11ABA1	08-07-01	<3.0	E.2
05S 01E 16ACC2	08-08-01	31.1	<.3
05S 03E 22BBB2	08-08-01	<3.0	4.3
05S 04E 32DCB1	08-10-01	293	<.3
06S 04E 15CDD1	08-10-01	505	<.3
		PAYETTE COUNTY	
06N 04W 35ADC1	07-19-01	4.6	1.2
07N 03W 09CDB1	07-18-01	139	<.3
07N 04W 13CBB1	07-18-01	3.5	<.3
08N 04W 03AAD1	07-19-01	134	<.3
08N 05W 09DAD1	08-20-01	219	<.3
09N 03W 12BDA1	08-20-01	504	<.3
09N 05W 26CBB1	08-20-01	22.2	1.2
		SHOSHONE COUNTY	
45N 03E 04DCC1	07-25-01	<3.0	<.3
45N 03E 14AAA2	07-25-01	3.6	<.3
48N 04E 20CAA1	07-24-01	6.2	<.3
49N 01E 36DCC1	09-05-01	133	E.2
		VALLEY COUNTY	
11N 03E 01DDC1	08-01-01	73.8	E.2
12N 04E 04CBC1	07-31-01	23.8	<.3
13N 03E 13AAC1	08-22-01	<3.0	<.3
17N 03E 10AADD1	07-31-01	18.9	<.3
17N 03E 26ADD1	07-31-01	459	<.3
18N 03E 15CCB1	07-30-01	<3.0	<.3
		WASHINGTON COUNTY	
10N 05W 05DAA1	08-15-01	308	E.3
11N 05W 21CDB1	08-13-01	684	<.3
11N 05W 29CBB1	08-13-01	<3.0	1.5
11N 06W 14BCD1	08-15-01	<10.0	4.2
12N 04W 19CACC1	08-13-01	232	<.3
12N 05W 24DCD1	08-15-01	266	<.3
14N 03W 03DCA1	08-01-01	108	<.3

WATER QUALITY DATA, JUNE TO SEPTEMBER 2001

STATION NAME	SITE NUMBER	DATE	TIME	PROPACHLOR, 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)	FONOFOS WATER DISS REC (UG/L) (04095)
ADA COUNTY										
04N 02E 29ACA1	433930116141901	09-18-01	1300	<.010	<.002	<.011	.029	<.006	<.018	<.003
CANYON COUNTY										
02N 01W 07AAB1	433155116294401	06-26-01	1320	<.010	<.002	E.002	<.015	E.154	<.018	<.003
06N 05W 07ABB2	435241116585302	07-25-01	1045	<.010	<.002	<.011	<.015	<.006	<.018	<.003
06N 05W 29DAD1	434935116571401	07-23-01	1045	<.010	<.002	<.011	<.015	E.005	<.018	<.003

STATION NAME	DATE	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)	PARATHION, DISSOLVED (UG/L) (39542)	DIAZINON, DISSOLVED (UG/L) (39572)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)
ADA COUNTY											
04N 02E 29ACA1	09-18-01	<.005	<.003	<.005	<.004	<.005	<.013	<.027	<.007	<.005	<.007
CANYON COUNTY											
02N 01W 07AAB1	06-26-01	<.005	<.003	<.005	<.004	<.005	E.001	<.027	<.007	<.005	.096
06N 05W 07ABB2	07-25-01	<.005	<.003	<.005	<.004	<.005	E.012	<.027	<.007	<.005	.011
06N 05W 29DAD1	07-23-01	<.005	<.003	<.005	<.004	<.005	<.013	<.027	<.007	<.005	.012

STATION NAME	DATE	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-D ETHYL 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)	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)
ADA COUNTY											
04N 02E 29ACA1	09-18-01	<.002	<.006	<.002	<.009	<.009	<.011	<.034	<.035	<.006	<.002
CANYON COUNTY											
02N 01W 07AAB1	06-26-01	<.002	.010	<.002	<.009	<.009	<.011	<.034	<.035	<.006	<.002
06N 05W 07ABB2	07-25-01	<.002	<.006	<.002	<.009	<.009	<.011	<.034	<.035	<.006	<.002
06N 05W 29DAD1	07-23-01	<.002	.018	<.002	<.009	<.009	<.011	<.034	<.035	<.006	.014

STATION NAME	DATE	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)	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)
ADA COUNTY											
04N 02E 29ACA1	09-18-01	<.002	<.016	<.002	<.005	<.010	<.020	<.017	<.004	<.021	<.002
CANYON COUNTY											
02N 01W 07AAB1	06-26-01	<.002	<.016	<.002	<.005	<.010	<.020	<.017	<.004	<.021	<.002
06N 05W 07ABB2	07-25-01	<.002	<.016	<.002	<.005	<.010	<.020	<.017	<.004	<.021	<.002
06N 05W 29DAD1	07-23-01	<.002	<.016	<.002	<.005	<.010	<.020	<.017	<.004	<.021	<.002

STATION NAME	DATE	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	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)
ADA COUNTY										
04N 02E 29ACA1	09-18-01	<.011	<.041	<.005	<.003	<.010	<.007	<.023	<.050	<.006
CANYON COUNTY										
02N 01W 07AAB1	06-26-01	<.011	<.041	<.005	<.003	<.010	<.007	<.023	<.050	<.006
06N 05W 07ABB2	07-25-01	<.011	<.041	<.005	<.003	<.010	<.007	<.023	<.050	<.006
06N 05W 29DAD1	07-23-01	<.011	<.041	<.005	<.003	<.010	<.007	<.023	<.050	<.006

< Less than
E Estimated value
S Most probable value

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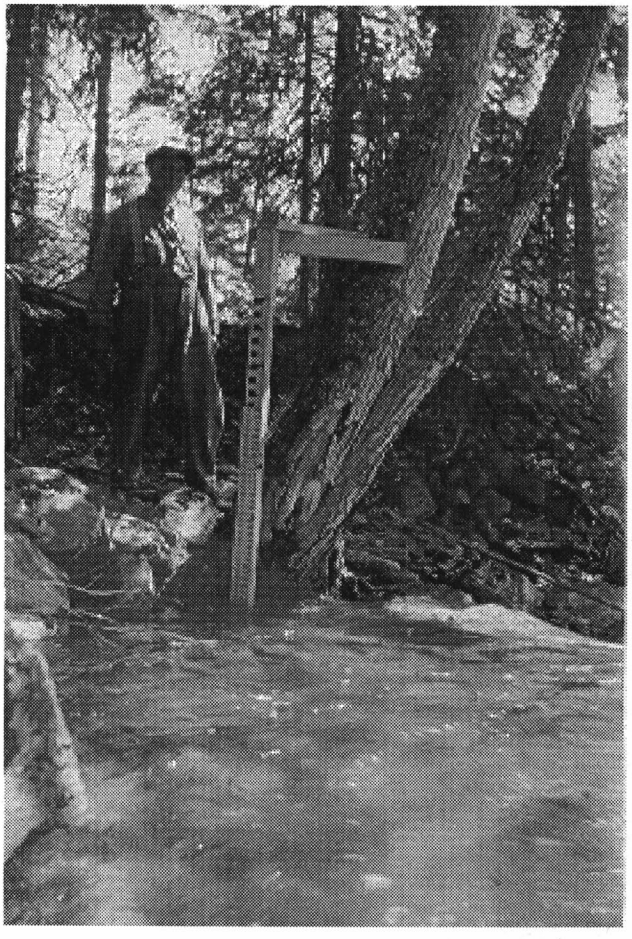

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CONVERSION FACTORS AND VERTICAL DATUM

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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