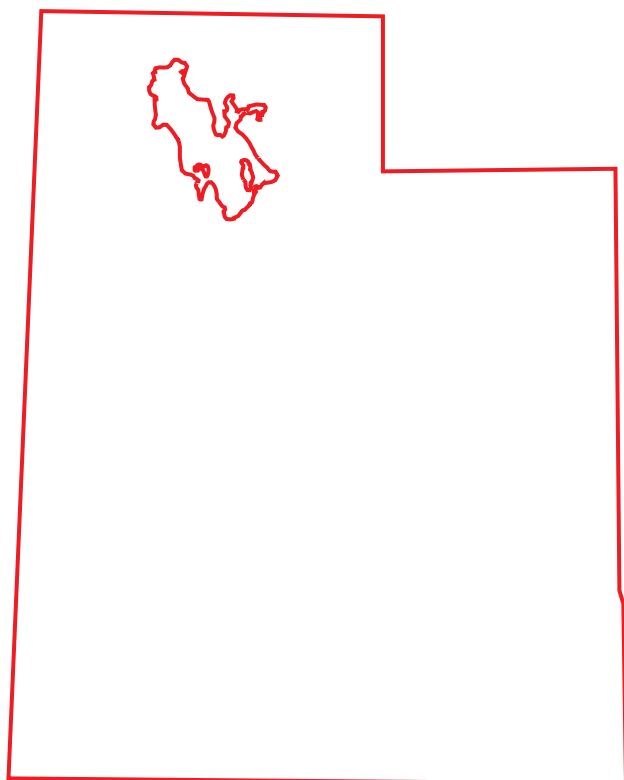


Water Resources Data Utah Water Year 2002

Water-Data Report UT-02-1



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



Prepared in cooperation with the
State of Utah and other
cooperators and agencies

CALENDAR FOR WATER YEAR 2002

2001

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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2002

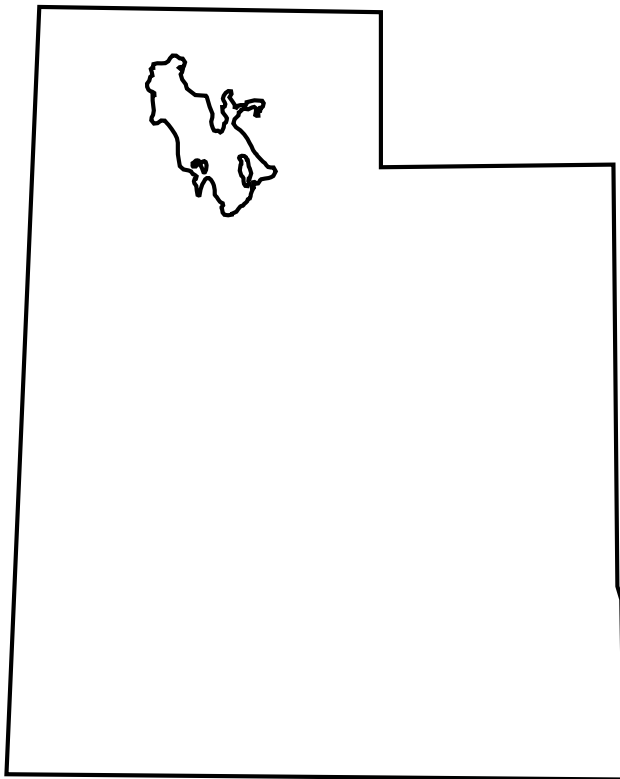
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U.S. Department of the Interior
U.S. Geological Survey

Water Resources Data Utah Water Year 2002

By D.E. Wilberg, J.R. Tibbetts, and Michael Enright

Water-Data Report UT-02-1



Prepared in cooperation with the State of Utah
and other cooperators and agencies



UNITED STATES DEPARTMENT OF THE INTERIOR
GALE A. NORTON, Secretary

GEOLOGICAL SURVEY
Charles G. Groat, Director

For information on the water program in Utah, write to:

District Chief, Water Resources Division
U.S. Geological Survey
2329 West Orton Circle
Salt Lake City, Utah 84119

2003

This volume of the annual hydrologic data report of Utah is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-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 State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Utah are contained in one volume.

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 typed, edited, 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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[Letter after station name designates type of data: (d) discharge, (e) elevation or contents, (c) chemical,
(b) biological, (t) water temperature, (s) sediment, (p) precipitation]

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The following continuous-record surface-water gaging stations in Utah and parts of surrounding states have been discontinued. Daily streamflow (d) and reservoir elevation (e) records were collected and published for the period of record, expressed in water years. Discontinued project stations with less than 2 years of data have not been included. Stations shown in bold were discontinued at end of previous water year. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report. Abbreviations used: a: approximate; q: includes 255 sq mi in closed basin in Cedar Valley; DS: downstream; US: upstream

Station name	Station number	Drainage area (sq mi)	Period of record
COLORADO RIVER BASIN			
Cottonwood Wash at I-70 near Cisco, UT (d)	09163675	170	1983-86
Twomile Creek near LaSal, UT (d)	09169000	269	1944-51
Taylor Creek near Gateway, CO (d)	09177500	12	1944-67
Deep Creek near Paradox, CO (d)	09178000	—	1944-53
TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER			
Geyser Creek near Paradox, CO (d)	09178500	—	1944-51
Onion Creek above Onion Creek Bridge near Moab, UT (d)	09180920	—	1979-81
Onion Creek below Onion Creek Bridge near Moab, UT (d)	09180970	—	1979-81
Onion Creek near Moab, UT (d)	09181000	18.8	1950-55
Professor (Rock) Creek near Moab, UT (d)	09181500	33.6	1950-53
Castle Creek above diversions, near Moab, UT (d)	09182000	7.58	1951-55 1958-75
Castle Creek below Castleton near Moab, Utah (d)	09182200	17.6	1992-2001
Castle Creek near Moab, UT (d)	09182500	53.1	1950-55 1957-58
Courthouse Wash at Arches Hwy Crossing near Moab, UT (d)	09182900	143	1959-66
Courthouse Wash near Moab, UT (d)	09183000	162	1950-55 1957 1966-89
Mill Creek near Moab, UT (d)	09184000	74.9	1949-71 1972-93
Pack Creek at M4 Ranch, near Moab, UT (d)	09184500	15.8	1955-59
Pack Creek near Moab, UT (d)	09185000	57.4	1955-59
Hatch Wash near LaSal, UT (d)	09185500	378	1951-71
Indian Creek Tunnel near Monticello, UT (d)	09185800	—	1958-80
Indian Creek near Monticello, UT (d)	09186000	4.70	1950-57
Indian Creek above Cottonwood Creek near Monticello, UT (d)	09186500	31.2	1949-71 1988-91
Cottonwood Creek near Monticello, UT (d)	09187000	115	1950-57
Indian Creek above Harts Draw near Monticello, UT (d)	09187500	258	1949-57
Indian Creek below Bogus Pocket near Monticello, UT (d)	09187550	262	1983-88
GREEN RIVER BASIN			
Blacks Fork above Blacks Fork Ranger Station, UT (d)	09217500	48.8	1937-39
Blacks Fork at Blacks Fork Ranger Station, UT (d)	09218000	a130	1937-39
Blacks Fork near Millburne, Wyoming (d)	09218500	152	1939-98
Green River near Linwood, UT (d)	09225500	a14,300	1928-63
Middle Fork Beaver Creek near Lonetree, WY (d)	09226500	a28	1948-70
East Fork Beaver Creek near Lonetree, WY (d)	09227000	a8.2	1949-62
West Fork Beaver Creek near Lonetree, WY (d)	09227500	a23	1949-62
Burnt Fork near Burntfork, WY (d)	09228500	52.8	1943-83
Henrys Fork near Manila (d)	09229500	520	1928-93
Green River at Flaming Gorge near Linwood, UT (d)	09230500	a14,900	1923-38
Sheep Creek Upper Canal near Manila, UT (d)	09231000	—	1950-61
Carter Creek Canal near Manila, UT (d)	09231200	—	1956-61
Sheep Creek Lower Canal near Manila, UT (d)	09231500	—	1950-61
Sheep Creek near Manila, UT (d)	09232000	a42	1943-61
Sheep Creek at mouth near Manila, UT (d)	09232500	111	1947-61
Carter Creek near Manila, UT (d)	09233000	a19	1949-54

Station name	Station number	Drainage area (sq mi)	Period of record
GREEN RIVER BASIN--Continued			
Red Lake Outlet near Manila, UT (d)	09233500	a19	1946-49
Carter Creek at mouth near Manila, UT (d)	09234000	a110	1946-55
Red Creek near Dutch John, UT (d)	09234700	140	1971-76
Green River at (near) Bridgeport, UT (d)	09235000	a15,700	1912-15
Crouse Creek near Vernal, UT (d)	09235100	30.2	1986-90
Pot Creek above diversions, near Vernal (d)	09235600	24.6	1957-93
Pot Creek near Vernal, UT (d)	09235800	107	1958-82
Jones Hole Creek near Jensen, UT (d)	09260500	a120	1950-56 1960-61
Brush Creek above cave near Vernal, UT (d)	09261500	a23	1946-55
Big Brush Creek near Vernal, UT (d)	09262000	79.6	1940-79
Little Brush Creek below East Park Reservoir near Vernal, UT (d)	09262500	a20	1949-55
Little Brush Creek near Vernal, UT (d)	09263000	a28	1946-52
Brush Creek near Jensen, UT (d)	09263500	255	1940-65
ASHLEY CREEK BASIN			
Ashley Creek below Trout Creek near Vernal, UT (d)	09264000	a27	1944-54
South Fork Ashley Creek near Vernal, UT (d)	09264500	a20	1944-55
Oaks Park Canal near Vernal, UT (d)	09265000	—	1946-69
Ashley Creek above Red Pine Creek near Vernal, UT (d)	09265300	55.8	1965-75
Ashley Creek above Spring near Vernal, UT (d)	09265500	a100	1941-45
Ashley Creek Spring near Vernal, UT (d)	09266000	—	1944-45 1954-55
U.P.&L. Co.'s Tailrace near Vernal, UT (d)	09267000	—	1917 1920-31
Ashley Creek above Dry Fork, near Vernal, UT (d)	09267100	110	1969-72
Dry Fork above sinks, near Dry Fork, UT (d)	09268000	44.4	1940-75
North Fork of Dry Fork near Dry Fork, UT (d)	09268500	8.62	1947-89
Brownie Canyon above sinks, near Dry Fork, UT (d)	09268900	8.24	1961-89
East Fork of Dry Fork near Dry Fork, UT (d)	09269000	a12	1947-63
East Fork of Dry Fork at mouth near Dry Fork, UT (d)	09269500	a18	1950-52
Dry Fork below springs near Dry Fork, UT (d)	09270000	97.4	1904 1941-45 1954-69
Dry Fork at mouth near Dry Fork, UT (d)	09270500	116	1954-89
Ashley Creek at Sign of the Maine, near Vernal, UT (d)	09271000	241	1900-04 1939-65
Highline Canal below Mantle Gulch near Jensen, UT (d)	09271070	—	1969-72
Steinaker Reservoir near Vernal, UT (e)	09271300	—	1962-68
River Irrigation Company Canal near Jensen, UT (d)	09271470	—	1969-72
Ashley Creek near Jensen, UT (d)	09271500	383	1947-83
Stewart Lake Outflow near Jensen, UT (d)	09271600	—	1990-94
TRIBUTARIES BETWEEN ASHLEY CREEK AND DUCHESNE RIVER			
Halfway Hollow Tributary near LaPoint, UT (d)	09271800	a5.6	1960-74
DUCHESNE RIVER BASIN			
Duchesne Tunnel near Kamas, UT (d)	09272500	—	1954-69
Duchesne River at Provo River Trail near Hanna, UT (d)	09273000	a39	1930-33 1935-54
Duchesne River below Little Deer Creek, near Hanna, UT (d)	09273200	a39	1965-68
Hades Creek near Hanna, UT (d)	09273500	a75	1950-68
Duchesne River (North Fork) near Hanna, UT (d)	09274000	a78	1922-23 1929-30 1946-63
West Fork Duchesne River below Vat Diversion near Hanna, UT (d)	09274900	37.0	1989-94

Station name	Station number	Drainage area (sq mi)	Period of record
DUCHESNE RIVER BASIN--Continued			
West Fork Duchesne River below Dry Hollow near Hanna, UT (d)	09275000	43.8	1950-68 1974-81
West Fork Duchesne River near Hanna, UT (d)	09275500	61.6	1945-94
Wolf Creek above Rhoades Canyon near Hanna, UT (d)	09276000	10.6	1946-84
Wolf Creek near Hanna, UT (d)	09276500	a19	1922-23
Duchesne River at Hanna, UT (d)	09277000	a230	1953-61
Comb. flow Duchesne River & Duchesne Tunnel near Tabiona, UT (d)	09277501	—	1919-67
Rock Creek above South Fork, near Hanna, UT (d)	09277800	98.9	1965-84 1988-94
South Fork Rock Creek near Hanna, UT (d)	09278000	15.7	1953-92
Rock Creek near Hanna, UT (d)	09278500	122	1950-69 1974-88
Rock Creek below Miners Gulch near Hanna, UT (d)	09278700	133	1974-81
Rock Creek near Talmage, UT (d)	09279100	238	1963-94
Duchesne River at Duchesne, UT (d)	09279500	a660	1918-70
Strawberry River and Willow Creek Ditches near Heber, UT (d)	09280000	—	1950-60
Hobble Creek at Daniels Summit near Wallsburg, UT (d)	09280400	2.89	1964-84
Upper Hobble Creek Ditch near Heber, UT (d)	09280500	—	1950-52
Lower Hobble Creek Ditch near Heber, UT (d)	09281000	—	1950-52
Hobble Creek Ditch (Upper & Lower) near Heber, UT (d)	09281500	—	1949-60
Strawberry Tunnel at West Portal near Thistle, UT (d)	09282000	—	1915-25 1932-34 1935-68
Strawberry Reservoir near Soldier Springs, UT (e)	09282500	170	1913-68
Indian Creek in Strawberry Valley, UT (d)	09284000	a50	1905-06 1909-10
Strawberry River below mouth of Indian Creek, Strawberry Valley, UT (d)	09284500	182	1903-06 1909
Strawberry River near Soldier Springs, UT (d)	09285000	213	1942-56 1963-94
Willow Creek near Soldier Springs, UT (d)	09285500	a44	1943-47
Strawberry River above Red Creek near Fruitland, UT (d)	09285700	363	1964-81
Strawberry River at Pinnacles near Fruitland, UT (d)	09285900	372	1989-94
Red Creek above reservoir, near Fruitland, UT (d)	09286100	31.4	1986-98
Red Creek near Fruitland, UT (d)	09286500	a89	1918-22 1956-61
Currant Creek below Currant Creek Dam, near Fruitland, UT (d)	09286700	48.0	1983-94
Currant Creek below Red Ledge Hollow near Fruitland, UT (d)	09287000	50.1	1946-68 1974-83
Water Hollow near Fruitland, UT (d)	09287500	a14	1946-84
Red Creek below Currant Creek near Fruitland, UT (d)	09288100	297	1964-81
West Fork Avintaquin Creek near Fruitland, UT (d)	09288150	56.1	1964-86
Starvation Reservoir near Duchesne, UT (e)	09288395	1,058	1989-94
Strawberry River below Starvation Reservoir near Duchesne, UT (d)	09288400	1,059	1989-94
Strawberry River at Duchesne (Theodore), UT (d)	09288500	1,066	1908-10 1915-68
Sowers Creek near Duchesne, UT (d)	09288900	40.6	1964-86
Antelope Creek near Myton, UT (d)	09289000	a198	1918-21
Brown Duck Creek near Mountain Home, UT (d)	09290000	a15	1933-34 1943-55
Lake Fork River below Taskeech Damsite near Mt Home, UT (d)	09291200	138	1977-84
Yellowstone Creek below Swift Creek near Altonah, UT (d)	09291500	a99	1950-55
Yellowstone River at mouth near Altonah, UT (d)	09293000	142	1943-44 1976-81

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
DUCHESNE RIVER BASIN--Continued			
Lake Fork River (below Forks) near Altonah, UT (d)	09293500	304	1904 1907-10 1917-20 1976-81
Lake Fork River at Hwy 87 near Altamont, UT (d)	09293600	318	1976-81
Pigeon Water Creek near Altamont, UT (d)	09293700	95.5	1976-79
Lake Fork River near Upalco, UT (d)	09294000	427	1943-55 1976-81
Lake Fork (Creek) near Myton, UT (d)	09294500	484	1900-03 1907-36 1976-81
Uinta River below Gilbert Creek near Neola, UT (d)	09295500	a33	1951-55
Uinta River above Clover Creek near Neola, UT (d)	09296000	132	1946-55
Clover Creek near Neola, UT (d)	09296500	a9.5	1950-55
Uinta River near Neola, UT (d)	09297000	163	1922-27 1930-83
Uinta River near Whiterocks, UT (d)	09297500	218	1899-1903 1907-10 1917-20
West Channel Uinta River below diversion works near Whiterocks, UT (d)	09297600	216	1976-81
East Channel Uinta River below diversion works near Whiterocks, UT (d)	09297700	215	1977-81
East Channel Uinta River at County Road Bridge near Whiterocks, UT (d)	09297800	253	1976-81
East Channel Uinta River at LaPoint Road near LaPoint, UT (d)	09297900	382	1976-82
Farm Creek near Whiterocks, UT (d)	09298000	14.9	1950-81
Whiterocks River above Paradise Creek near Whiterocks, UT (d)	09298500	a90	1946-55
Paradise Creek near Whiterocks, UT (d)	09299000	a10	1946-55
Whiterocks River below damsite near Whiterocks, UT (d)	09299400	110	1976-81
Whiterocks River below Farm Creek Canal near Whiterocks, UT (d)	09299600	120	1976-81
Whiterocks River 1 mile east of Whiterocks, UT (d)	09299700	124	1976-81
Deep Creek at State Highway 246 near LaPoint, UT (d)	09299900	72.2	1976-79
Deep Creek near LaPoint, UT (d)	09300000	a75	1943-45 1950-55
Uinta River at Fort Duchesne, UT (d)	09300500	557	1899-1904 1907-10 1917-20 1943-58 1976-81
Dry Gulch near Neola, UT (d)	09301000	a67	1951-58
Dry Gulch near Fort Duchesne, UT (d)	09301200	469	1976-81
WHITE RIVER BASIN			
White River near Colorado State Line, UT (d)	09306395	3,680	1977-86
White River above Hells Hole Canyon near Watson, UT (d)	09306400	a3,700	1974-76
Hells Hole Canyon Creek at mouth near Watson, UT (d)	09306405	24.5	1975-83
Evacuation Creek above Missouri Creek near Dragon, UT (d)	09306410	100	1975-83
Evacuation Creek below Park Canyon near Watson, UT (d)	09306415	246	1975-76
Thimble Rock Canyon near Watson, UT (d)	09306417	1.7	1975-76
Evacuation Creek at Watson, UT (d)	09306420	259	1975-75
Evacuation Creek Tributary near Watson, UT (d)	09306425	12.4	1974-76
Evacuation Creek near mouth near Watson, UT (d)	09306430	284	1975-81
White River below Southam Canyon near Watson, UT (d)	09306600	a4,030	1975-76
Southam Canyon Wash near Watson, UT (d)	09306605	2.5	1974-76
Southam Canyon Wash at mouth near Watson, UT (d)	09306610	8.3	1974-76
Asphalt Wash below Center Fork near Watson, UT (d)	09306620	94.4	1975-76
Asphalt Wash near mouth near Watson, UT (d)	09306625	97.5	1974-83
White River below Asphalt Wash near Watson, UT (d)	09306700	a4,130	1974-77
Bitter Creek above Dick Canyon near Watson, UT (d)	09306740	11.7	1975-78

Station name	Station number	Drainage area (sq mi)	Period of record
WHITE RIVER BASIN—Continued			
Sweetwater Canyon below South Canyon near Watson, UT (d)	09306760	22.6	1975-78
Sweetwater Canyon Creek near mouth near Watson, UT (d)	09306780	124	1975-78
Bitter Creek near Bonanza, UT (d)	09306800	324	1971-89
Bitter Creek at mouth near Bonanza, UT (d)	09306850	398	1975-83
Sand Wash near Ouray, UT (d)	09306870	59.7	1975-81
Sand Wash at mouth near Ouray, UT (d)	09306872	71.1	1977-81
Coyote Wash near mouth near Ouray, UT (d)	09306878	228	1977-83
North Wash near Ouray, UT (d)	09306880	11.0	1980-81
Cottonwood Wash near mouth near Ouray, UT (d)	09306885	70.6	1977-81
White River at mouth near Ouray, UT (d)	09306900	5,120	1974-86
TRIBUTARIES BETWEEN DUCHESNE RIVER AND PRICE RIVER			
Green River near Ouray, UT (d)	09307000	a35,500	1948-66
Pariette Draw near Ouray, UT (d)	09307200	153	1976-84
Combined flow Pariette Draw at mouth and Lambs Diversion (d)	09307290	—	1978-80
Lambs Diversion from Pariette Draw near Ouray, UT (d)	09307295	—	1978-82
Pariette Draw at mouth near Ouray, UT (d)	09307300	298	1975-84
Willow Creek above diversions near Ouray, UT (d)	09307500	297	1951-55 1958-70 1975-83
Hill Creek above Towave Reservoir near Ouray, UT (d)	09307800	89.7	1975-81
Hill Creek near mouth near Ouray, UT (d)	09307900	288	1975-81
Willow Creek near Ouray, UT (d)	09308000	897	1948-55 1975-83
Minnie Maud Creek near Myton, UT (d)	09308500	32.0	1950-55 1957-89
Minnie Maud Creek at Nutter Ranch near Myton, UT (d)	09309000	231	1948-55
PRICE RIVER BASIN			
Fairview Ditch near Fairview, UT (d)	09309500	—	1950-65
Gooseberry Creek near Fairview, UT (d)	09309800	a7.51	1960-69
Boardinghouse Creek at mouth near Scofield, UT (d)	09310575	2.04	1983-84
Eccles Canyon near Scofield, UT (d)	09310600	5.5	1980-84
Price River near Scofield, UT (d)	09311500	a155	1918-21 1925-31 1939-69 1979-80
Price River near Soldier Summit, UT (d)	09311700	a180	1962-63
North Fork White River near Soldier Summit, UT (d)	09312000	23.3	1942-47
White River near Soldier Summit, UT (d)	09312500	52.8	1938-67
Beaver Creek near Soldier Summit, UT (d)	09312700	26.1	1961-89
Willow Creek near Castle Gate, UT (d)	09312800	62.8	1963-89
Willow Creek at Castle Gate, UT (d)	09312900	77.4	1980-81
Spring Canyon below Sowbelly Gulch at Helper, UT (d)	09313040	23.0	1979-81
Price River near Helper, UT (d)	09313500	a530	1904-34
Coal Creek near Helper, UT (d)	09313965	25.3	1978-81
Soldier Creek below Mine near Wellington, UT (d)	09313975	17.7	1978-84
Dugout Creek near Sunnyside, UT (d)	09313985	5.8	1980-81
Price River near Wellington, UT (d)	09314000	853	1950-58
Price River below Miller Creek near Wellington, UT (d)	09314250	956	1972-86
Desert Seep Wash near Wellington, UT (d)	09314280	191	1972-86
Grassy Trail Creek at Sunnyside, UT (d)	09314340	40.1	1978-85
Horse Canyon near Sunnyside, UT (d)	09314374	12.5	1978-81
TRIBUTARIES BETWEEN PRICE RIVER AND SAN RAFAEL RIVER			
Saleratus Wash at Green River, UT (d)	09315500	a180	1949-70
Browns Wash near Green River, UT (d)	09316000	a75	1950-68

Station name	Station number	Drainage area (sq mi)	Period of record
TRIBUTARIES BETWEEN PRICE RIVER AND SAN RAFAEL RIVER--Continued			
Floy Wash near Green River, UT (d)	09316100	56.6	1983-86
Boulger Creek near Fairview, UT (d)	09317000	a1.9	1938-40 1942-49
Candland Ditch near Mt. Pleasant, UT (d)	09317500	—	1950-58
Crandall Canyon at mouth near Huntington, UT (d)	09317919	5.70	1978-84
Tie Fork Canyon near Huntington, UT (d)	09317920	11.7	1978-81
Huntington Creek near Huntington, UT (d)	09318000	187	1909-79
Huntington Creek near Castle Dale, UT (d)	09318500	325	1911-17 1919-21
Horseshoe Tunnel near Ephraim, UT (d)	09320000	—	1950-58
Larsen Tunnel near Ephraim, UT (d)	09320500	—	1949-58
Coal Fork Ditch near Mount Pleasant, UT (d)	09321000	—	1950-58 1976
Twin Creek Tunnel near Mount Pleasant, UT (d)	09321500	—	1950-58
Black Canyon Ditch near Spring City, UT (d)	09322000	—	1950-58
Cedar Creek Tunnel near Spring City, UT (d)	09322500	—	1950-58
Reeder Ditch near Spring City, UT (d)	09323500	—	1950-58
Seely Creek near Orangeville, UT (d)	09324000	a150	1954-57
Cottonwood Creek above Straight Canyon near Orangeville, UT (d)	09324200	21.9	1978-81
Cottonwood Creek near Orangeville, UT (d)	09324500	208	1910-27 1933-70 1975-85
Cottonwood Creek near Castle Dale, UT (d)	09325000	261	1947-58
San Rafael River above Ferron Creek near Castle Dale, UT (d)	09325100	a680	1965-70
John August Ditch near Ephraim, UT (d)	09325500	—	1949-58
Madsen Ditch near Ephraim, UT (d)	09326000	—	1950-58
Ferron Creek near Ferron, UT (d)	09327000	159	1909-11
Ferron Creek near Castle Dale, UT (d)	09327500	a210	1912-14 1948-58
Ferron Creek below Paradise Ranch near Clawson, UT (d)	09327550	221	1976-86
San Rafael River near Castle Dale, UT (d)	09328000	930	1948-64 1972-86
San Rafael River at San Rafael Bridge Campground, near Castle Dale, UT (d)	09328100	1,284	1975-86
Crescent Wash Reservoir, UT (e)	09328870	19.0	1954-57
DIRTY DEVIL RIVER BASIN			
Fremont River below Fish Lake near Fremont, UT (d)	09329000	a27	1939-45
Seven Mile Creek near Fish Lake, UT (d)	09329050	24.0	1964-98
Fremont River near Fremont, UT (d)	09329500	205	1949-58
Pine Creek near Bicknell, UT (d)	09329900	104	1965-80
Pleasant Creek near Caineville, UT (d)	09330210	115	1969-72
Bull Creek near Hanksville, UT (d)	09330410	7.53	1983-91
Muddy Creek (Lower Station) near Emery, UT (d)	09331000	114	1911-14
Ivie Creek above diversions near Emery, UT (d)	09331500	a50	1951-61
Convulsion Canyon near Emery, UT (d)	09331850	21.6	1981-84
Quitcupah Creek near Emery, UT (d)	09331900	104	1978-81
Christiansen Wash near Emery, UT (d)	09331950	13.6	1978-84
Muddy Creek below I-70 near Emery, UT (d)	09332100	418	1973-86
Muddy Creek below Ivie Creek near Emery, UT (d)	09332500	a440	1950-61
Muddy Creek at Delta Mine near Hanksville, UT (d)	09332700	841	1975-86
Muddy Creek at mouth near Hanksville, UT (d)	09332800	1,552	1976-80
Dirty Devil River near Hanksville, UT (d)	09333000	a3,490	1946-48
North Wash near Hanksville, UT (d)	09334000	136	1951-70
White Canyon near Hanksville (Hite), UT (d)	09334500	276	1951-70
Colorado River at Hite, UT (d)	09335000	a76,600	1948-58

Station name	Station number	Drainage area (sq mi)	Period of record
ESCALANTE RIVER BASIN			
North Creek near Escalante, UT (d)	09335500	a90	1950-55
Birch Creek near Escalante, UT (d)	09336000	a36	1950-51
Birch Creek at mouth near Escalante, UT (d)	09336500	a100	1952-55
East Fork Boulder Creek near Boulder, UT (d)	09338000	21.4	1951-55
			1958-72
East Fork Deer Creek near Boulder, UT (d)	09338500	a1.9	1950-55
Boulder Creek (below Deer Creek) near Boulder, UT (d)	09339000	a175	1950-55
Escalante River at mouth near Escalante, UT (d)	09339500	a1,770	1951-55
SAN JUAN RIVER BASIN			
McElmo Creek near Bluff, UT (d)	09372200	—	1981-82
Spring Creek above diversions near Monticello, UT (d)	09376900	4.95	1966-72
Davenport and Campbell Canal near Monticello, UT (d)	09377500	—	1914-16
Spring (Vaga) Creek near Monticello, UT (d)	09377000	a8.5	1914-16
Green Canal near Monticello, UT (d)	09378000	—	1914-16
North Creek above Ranger Station near Monticello, UT (d)	09378100	8.68	1980-85
Montezuma Creek at Golf Course, at Monticello, UT (d)	09378200	17.6	1979-92
Montezuma Creek near Bluff, UT (d)	09378600	1,154	1985-93
Recapture Creek below Johnson Creek, near Blanding, UT (d)	09378650	50.2	1975-93
Cottonwood Wash near Blanding, UT (d)	09378700	205	1965-87
Comb Wash near Bluff, UT (d)	09379000	278	1959-68
COMBINED INFLOW ABOVE GLEN CANYON DAM			
Colorado plus Green plus San Juan (temp) (d)	09379505	—	1928-84
COLORADO RIVER TRIBUTARIES BELOW GLEN CANYON DAM			
Henrieville Creek near Henrieville, UT (d)	09381000	a29	1950-55
Paria River near Cannonville, UT (d)	09381500	a220	1951-55
Mill Creek above study area near Glendale, UT (d)	09403620	4.81	1976-77
Skutumpah Creek below study area near Glendale, UT (d)	09403630	16.0	1976-77
Intermediate Drainage near Glendale, UT (d)	09403640	2.49	1976-77
Thompson Creek above study area near Glendale, UT (d)	09403650	9.80	1976-77
Thompson Creek below study area near Glendale, UT (d)	09403660	16.6	1976-77
Johnson Wash above Flood Canyon, near Kanab, UT (d)	09403690	237	1994-97
VIRGIN RIVER BASIN			
Deep Creek near Cedar City, UT (d)	09405200	6.72	1987-93
East Fork Deep Creek near Cedar City, UT (d)	09405250	7.82	1987-93
Crystal Creek near Cedar City, UT (d)	09405300	10.2	1957-61
North Fork Virgin River near Glendale, UT (d)	09405400	5.65	1973-78
North Fork Virgin River below Bulloch Canyon near Glendale, UT (d)	09405420	29.6	1975-84
North Fork Virgin River above Zion Narrows near Glendale, UT (d)	09405450	45.5	1979-84
North Fork Virgin River above Big Bend near Springdale, UT (d)	09405490	311	1991-94
Springdale Canal near Springdale, UT (d)	09405499	—	1969-89
North Creek near Virgin, UT (d)	09405900	110	1984-93
LaVerkin Creek near LaVerkin, UT (d)	09406150	91.3	1984-91
Kanarra Creek at Kanarraville, UT (d)	09406300	9.85	1960-82
Ash Creek near New Harmony, UT (d)	09406500	a133.9	1939-48
Ash Creek Reservoir near New Harmony, UT (e)	09406600	—	1973-82
Leap Creek below Maple Hollow, near Pintura, UT (d)	09406640	9.19	1994-2001
South Ash Creek below Mill Creek near Pintura, UT (d)	09406700	11.0	1966-82
Wet Sandy Creek near Pintura, UT (d)	09406900	5.02	1994-2001
Ash Creek above Toquerville, UT (d)	09407000	201	1941-42
			1984-91
West Field Ditch at Toquerville, UT (d)	09407150	—	1973-82
Ash Creek below West Field Ditch at Toquerville, UT (d)	09407200	201	1973-82

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
VIRGIN RIVER BASIN—Continued			
Ash Creek below diversion dam at Toquerville, UT (d)	09407201	—	1973-82
Ash Creek near Toquerville, UT (d)	09407600	213	1956-58
Ash Creek near LaVerkin, UT (d)	09407800	215	1957-58
Virgin River above Quail Creek near Hurricane, UT (d)	09408135	1,381	1989-90 1992-93
Santa Clara-Pinto Diversion near Pinto, UT (d)	09408500	—	1954-62 1970-95
Santa Clara River near Central, UT (d)	09409000	a97	1909-30 1939-61
Moody Wash near Veyo, UT (d)	09409500	a33	1939-42 1955-69
Santa Clara River above Winsor Dam near Santa Clara, UT (d)	09410000	338	1942-71
Santa Clara River below Winsor Dam near Santa Clara (d)	09410100	378	1972-2001
Santa Clara River near Santa Clara, UT (d)	09410400	410	1965-74
Santa Clara River (Creek) near St. George, UT (d)	09412500	502	1909-13
THE GREAT BASIN			
Great Salt Lake at Promontory Point, UT (e)	10010050	—	1969-82 1997-99
Great Salt Lake at AIC near Syracuse, UT (e)	10010300	—	1975-82
BEAR RIVER BASIN			
East Fork Bear River near Evanston, WY (d)	10010400	34.6	1974-86
Hilliard East Fork Canal near State Line near Evanston, WY (d)	10010500	—	1944-47 1953-56
West Fork Bear River at Whitney Dam, near Oakley, UT (d)	10011200	a7.5	1964-86
West Fork Bear River below Deer Creek near Evanston, WY (d)	10011400	52.2	1974-86
Mill Creek at Utah-Wyoming State Line (d)	10012000	a59	1950-62
Mill Creek near Evanston, WY (d)	10012500	60.6	1942-48
Bear River above Sulphur Creek near Evanston, WY (d)	10014000	282	1946-56
Sulphur Creek above reservoir, below LaChapelle Creek, near Evanston, WY (d)	10015700	64.2	1957-97
Sulphur Creek below reservoir, near Evanston, WY (d)	10015900	69.2	1958-92
Sulphur Creek near Evanston, WY (d)	10016000	80.5	1942-59
Bear River at Millis, near Evanston, WY (d)	10016500	a420	1942-46
Yellow Creek near Evanston, WY (d)	10017000	a80	1943-45 1950-78
Coyote Creek near Evanston, WY (d)	10017500	a28	1942-45
Bear River near Evanston, WY (d)	10019000	715	1913-56
Chapman Canal at State Line near Evanston, WY (d)	10019500	—	1942-86
Woodruff Narrows Reservoir near Woodruff, UT (e)	10020200	784	1966-96
Bear River near Woodruff, UT (d)	10020500	a870	1943-61
Woodruff Creek below reservoir near Woodruff, UT (d)	10020900	50.0	1971-86
Woodruff Creek near Woodruff, UT (d)	10021000	a65	1938-43 1950-75
Birch Creek near Woodruff, UT (d)	10021500	a17	1949-56
Randolph Creek near Randolph, UT (d)	10024000	30.3	
Otter Creek near Randolph, UT (d)	10025000	36.2	1939-44
Bear River near Randolph, UT (d)	10026500	1,616	1943-92
Rock Creek near Fossil, WY (d)	10026800	49.0	1961-66
Twin Creek at Sage, WY (d)	10027000	246	1946-62
Bear River above Sublette Creek near Cokeville, WY (d)	10029500	a2,110	1948-55
Smiths Fork above Hobbie Creek near Geneva, ID (d)	10031000	—	1944-46
Hobbie Creek near Geneva, Id (d)	10031500	86.1	1943-46
Coal (Howland) Creek near Cokeville, WY (d)	10032500	—	1944-48 1953-56
Muddy Creek above Mill Creek near Cokeville, WY (d)	10032700	20.7	1964-69
Mill Creek near Cokeville, WY (d)	10032800	8.07	1965-69

Station name	Station number	Drainage area (sq mi)	Period of record
BEAR RIVER BASIN--Continued			
Grade Creek near Cokeville, WY (d)	10033000	—	1944-48
Pine Creek above Diversions near Cokeville, WY (d)	10033500	—	1944-48
			1953-56
Pine Creek above Covey Canal near Cokeville, WY (d)	10034500	—	1944-48
			1953-56
Smiths Fork at Cokeville, WY (d)	10035000	275	1942-52
Spring Creek to Collette Creek near Cokeville, WY (d)	10036000	—	1944-45
			1953-56
Birch Creek near Cokeville, WY (d)	10036500	—	1944-45
Hickman Canal near Cokeville, WY (d)	10037000	—	1944-48
George Bourne Canal near Cokeville, WY (d)	10037500	—	1944-48
Thomas Fork near Geneva, ID (d)	10040000	45.3	1939-51
Salt Creek near Geneva, ID (d)	10040500	37.6	1939-51
Thomas Fork near Wyoming-Idaho state line (d)	10041000	113	1949-92
Thomas Fork above Diversions near Geneva, ID (d)	10041500	—	1944-46
Thomas Fork near Raymond, ID (d)	10042500	202	1942-52
Bear River at Harer, ID (d)	10044000	2,839	1913-86
Dingle Inlet Canal near Dingle, ID (d)	10044300	—	1911-92
Bear River at Dingle, ID (d)	10044500	a2,810	1903-14
Bear River below Stewart Dam near Montpelier, ID (d)	10046500	2,853	1922-92
Montpelier Creek near Montpelier, ID (d)	10047000	28.2	1939-44
Montpelier Creek below Diversions at Montpelier, ID (d)	10048500	—	1944-47
St. Charles Creek above Diversions near St. Charles, ID (d)	10054600	17.4	1944-45
			1961-66
Bloomington Creek near Bloomington, ID (d)	10058500	22.1	1942-47
Bloomington Creek at Bloomington, ID (d)	10058600	24.0	1960-86
Paris Power Canal near Paris, ID (d)	10060000	—	1943-47
Paris Creek near Paris, ID (d)	10060500	18.6	1943-47
Slight Canyon Creek near Paris, ID (d)	10062000	6.81	1943-45
Mill Creek above West Fork near Liberty, ID (d)	10062500	18.4	1944-47
Mill Creek near Liberty, ID (d)	10063000	27.2	1943-47
Georgetown Creek near Georgetown, ID (d)	10069000	22.2	1911-14
			1939-56
Georgetown Creek below diversions at Georgetown, ID (d)	10070500	—	1944-47
Skinner Creek at Nounan, ID (d)	10071500	5.41	1939-45
Stauffer Creek near Nounan, ID (d)	10072000	—	1939-44
Eightmile Creek near Soda Springs, ID (d)	10072800	22.6	1960-86
Eightmile Creek below Diversions near Soda Springs, ID (d)	10073500	31.0	1944-47
Soda Creek at Fivemile Meadow near Soda Springs, ID (d)	10076400	a49	1964-86
Soda Creek at Lau Ranch near Soda Springs, ID (d)	10076500	a49	1923-26
Soda Creek near Soda Springs, ID (d)	10077000	54.6	1913-26
			1928-29
Soda Creek below Diversions at Soda Springs, ID (d)	10078000	—	1945-47
Treasureton Canal near Swan Lake, ID (d)	10083500	—	1939-46
Cottonwood Creek near Swan Lake, ID (d)	10084000	42.6	1939-46
Cottonwood Creek near Cleveland, ID (d)	10084500	61.7	1938-86
Mink Creek Canal near Mink Creek, ID (d)	10087000	—	1949-52
Mink Creek below Dry Fork near Mink Creek, ID (d)	10087500	19.3	1947-52
			1955-62
Twin Lakes Canal near Mink Creek, ID (d)	10088000	—	1943-52
Preston Riverdale and Mink Creek Canal near Mink Creek, ID (d)	10088500	—	1943-52
Mink Creek near Mink Creek, ID (d)	10089500	58.7	1943-52
Bear River near Preston (at Battlecreek), ID (d)	10090500	4,545	1889-1919
			1944-45
			1981-86
Deep Creek near Clifton, ID (d)	10091200	107	1966-78

Station name	Station number	Drainage area (sq mi)	Period of record
BEAR RIVER BASIN--Continued			
Bear River near Weston, ID (d)	10091500	4,880	1919-44
Weston Creek at Weston, ID (d)	10092000	a63	1942-44
Cub River Irrigation Company Pump Canal near Weston, ID (d)	10092500	—	1934-44
Cub River near Preston, ID (d)	10093000	19.4	1940-52 1955-86
Cub River-Worm Creek Canal near Preston, ID (d)	10094000	—	1943-52
Preston-Whitney Canal near Preston, ID (d)	10095000	—	1944-45 1946-52
Cub River Canal near Preston, ID (d)	10095500	—	1944-52
East Branch Cub River Canal near Lewiston, UT (d)	10095900	—	1962-63
Cub River above Maple Creek near Franklin, ID (d)	10096000	53.7	1940-52
Maple Creek near Franklin, ID (d)	10096500	21.2	1946-52
Worm Creek near Preston, ID (d)	10098500	11.0	1943-46
High Creek near Richmond, UT (d)	10099000	16.2	1944-52 1971-72 1978-89
Cub River near Richmond, UT (d)	10102200	222	1962-63 1999-2000
Bear River near Smithfield, UT (d)	10102250	5,193	1964-78 1990-95
Summit Creek above diversions near Smithfield, UT (d)	10102300	11.6	1944-45 1961-79
Birch Creek at mouth near Smithfield, UT (d)	10103000	—	1944-45
South Fork Little Bear River near Avon, UT (d)	10104600	26.0	1966-74
Little Bear River below Davenport Creek near Avon, UT (d)	10104700	61.6	1960-92
East Fork Little Bear River above Reservoir near Avon, UT (d)	10104900	56.7	1964-86
East Fork Little Bear River (below Pole Creek) near Avon, UT (d)	10105000	49.7	1938-50
East Fork Little Bear River below Pole Creek near Avon, UT (d)	10105500	a67	1927-30
Little Bear River near Paradise, UT (d)	10106000	203	1937-86
Hyrum Reservoir near Hyrum, UT (e)	10107000	220	1938-80
Little Bear River near Hyrum, UT (d)	10107500	222	1938-74
Little Bear River at Wellsville, UT (d)	10107600	245	1966-68
Utah Power and Light Tailrace near Logan, UT (d)	10108000	—	1913-70
Logan, Hyde Park and Smithfield Canal near Logan, UT (d)	10108500	—	1904-07 1909-10 1912-64
Logan River near Logan, UT (d)	10109500	—	1896-1912
Logan Northern Canal near Logan, UT (d)	10110500	—	1913-16 1944-45
Logan River below Logan Northern Canal near Logan, UT (d)	10111000	—	1915-17
Blacksmith Fork below Mill Creek near Hyrum, UT (d)	10111700	78.0	1965-69 1985-92
Blacksmith Fork at Hardware Ranch near Hyrum, UT (d)	10112000	a130	1944-50
Blacksmith Fork at Municipal Powerplant near Hyrum, UT (d)	10112500	153	1929-35
Hyrum City Power Canal near Hyrum, UT (d)	10113000	—	1904-10 1914-17
(Blacksmith Fork Municipal Powerplant Race)			
Blacksmith Fork at U.P. & L. Plant near Hyrum, UT (d)	10114000	—	1914-16
Blacksmith Fork below U.P. & L. Plant near Hyrum, UT (d)	10114500	286	1900-02 1904-10 1914-16
(Blacksmith Fork at Hyrum)			
Logan River below Blacksmith Fork near Logan, UT (d)	10115200	524	1964-80
Clarkston Creek near Newton, UT (d)	10115500	a43	1939-47
Cutler Reservoir at Cache Junction, UT (e)	10116000	—	1944-50
West Canal above Salt Creek diversion near Tremonton, UT (d)	10117510	—	1980-84 1986
West Canal below Salt Creek diversion near Tremonton, UT (d)	10117530	—	1980-84 1986

Station name	Station number	Drainage area (sq mi)	Period of record
BEAR RIVER BASIN--Continued			
Malad River below Springs near Malad City, ID (d)	10118200	a3.3	1931-32 1940-47
Warm Springs Canal near Samaria, ID (d)	10118300	—	1940-45
Malad River near Samaria, ID (d)	10118400	a31	1941-45
Little Malad River above Elkhorn Reservoir near Malad, ID (d)	10119000	a120	1911-13
Elkhorn Reservoir near Malad City (near Malad), ID (e)	10119500	153	1940-53
Little Malad River below Elkhorn Reservoir near Malad, ID (d)	10120000	153	1940-53
Little Malad River below Sand Ridge Dam near Malad, ID (d)	10120500	223	1945-51
Devil Creek above Campbell Creek near Malad City, ID (d)	10122500	a13	1938-61
Devil Creek above Evans Dividers near Malad City, ID (d)	10123000	a36	1940-43 1946-53
Devil Creek near Malad City (near Malad), ID (d)	10123500	a39	1931-40
Deep Creek below First Creek near Malad City, ID (d)	10125000	a32	1931-48
Malad River at Woodruff, ID (d)	10125500	a485	1938-82
Malad river near Plymouth, UT (d)	10125600	a632	1964-80
Bear River Duck Club near Bear River City, UT (d)	10125700	—	1964-73
Malad River below Bear River Duck Club Canal near Bear River City, UT (d)	10125800	a698	1964-74
TRIBUTARIES TO GREAT SALT LAKE BETWEEN BEAR RIVER AND WEBER RIVER			
Sulphur Creek near Corinne, UT (d)	10126180	15.4	1972-86
Box Elder Creek at Mantua, UT (d)	10126400	14.0	1960-63
Box Elder Creek near Brigham City, UT (d)	10126500	33.4	1918-21
Box Elder Creek at Brigham City, UT (d)	10127000	34.2	1909-12
Salt Spring near Tremonton, UT (d)	10127040	—	1979-86
Salt Creek below Salt Spring near Tremonton, UT (d)	10127050	—	1979-86
Black Slough near Brigham City, UT (d)	10127100	31.1	1972-86
Highway 83 Culverts (d)	10127107	—	1980-86
Sulphur Creek & Black Slough (d)	10127108	—	1980-86
Culverts & Sulphur Creek & Black Slough (d)	10127109	—	1980-86
Bear River Basin outflow across State Hwy 83 near Corinne, UT (d)	10127110	—	1972-86
WEBER RIVER BASIN			
Smith and Morehouse Creek near Oakley, UT (d)	10128000	33.8	1947 1976-86
South Fork Weber River near Oakley, UT (d)	10128200	a16	1965-74
Weber Provo Diversion Canal at Oakley, UT (d)	10129000	—	1931-69
Weber River near Peoa, UT (d)	10129300	296	1957-77
Crandall Creek near Peoa, UT (d)	10129350	11.8	1963-73
Rockport Reservoir near Wanship, UT (e)	10129400	—	1957-99
Silver Creek near Wanship, UT (d)	10130000	27.9	1942-46 1982-85 1990-96
East Fork Chalk Creek near Coalville, UT (d)	10130700	a35	1965-74
Echo Reservoir at Echo (e)	10131500	—	1931-99
Lost Creek Reservoir near Croydon (e)	10132490	—	1967-99
Lost Creek at Croydon, UT (d)	10132900	a220	1966-67
Lost Creek at Devils Slide (near Croydon), UT (d)	10133000	223	1905 1921-33
Weber River at Devils Slide, UT (d)	10133500	1,192	1905-55
Kimball Creek above East Canyon Creek near Park City, UT (d)	10133540	12.2	1990-96
McLeod Creek near Park City, UT (d)	10133600	8.78	1990-96
Threemile Creek near Park City, UT (d)	10133700	2.68	1964-74 1982-84
East Canyon Cr above Big Bear Hollow, near Park City, UT	10133895	75.0	1990-96
East Canyon Creek near Park City, UT (d)	10133900	68.9	1982-84

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
WEBER RIVER BASIN—Continued			
East Canyon Reservoir near Morgan, UT (e)	10134000		1932-99
Hardscrabble Creek near Porterville, UT (d)	10135000	28.0	1937-40
			1941-70
East Canyon Creek below diversions near Morgan, UT (d)	10135500	—	1951-55
Weber River near Morgan, UT (d)	10136000	a1,500	1951-55
Weber River at Ogden, UT (d)	10137000	a1,670	1951-58
Causey Reservoir near Huntsville, UT (e)	10137290	92.2	1966-68
South Fork Ogden River below Causey Dam near Huntsville, UT (d)	10137300	92.3	1966-67
South Fork Ogden River at Huntsville, UT (d)	10137600	a170	1937-57
			1959-65
North Fork Ogden River near Eden, UT (d)	10137680	6.03	1964-74
North Fork River near Huntsville, UT (d)	10137700	61.4	1960-65
Middle Fork Ogden River above diversion near Huntsville, UT (d)	10137780	31.3	1964-74
Middle Fork Ogden River at Huntsville, UT (d)	10137800	32.9	1958-65
Spring Creek at Huntsville, UT (d)	10137900	a7.2	1958-65
Pineview Reservoir near Ogden, UT (e)	10139000		1937-68
			1990-99
Wheeler Creek near Huntsville, UT (d)	10139300	11.1	1959-95
Ogden River near Ogden, UT (d)	10139500	321	1904-12
			1931-59
Ogden River below Pineview Dam near Ogden, UT (d)	10140000	321	1937-59
Ogden River at Powder Mill near Ogden, UT (d)	10140500	a360	1889-90
			1897-98
Willard Bay Reservoir near Plain City, UT (e)	10408000	—	1965-81
Hooper Slough near Hooper, UT (d)	10141040	13.0	1975-83
South Fork Weber Canal near Hooper, UT (d)	10141050	—	1972-76
South Fork Weber River near Hooper, UT (d)	10141100	—	1972-75
Middle Fork Weber River near Hooper, UT (d)	10141150	—	1971-75
North Fork Weber River near Hooper, UT (d)	10141200	—	1971-75
TRIBUTARIES TO GREAT SALT LAKE BETWEEN WEBER RIVER AND JORDAN RIVER			
Storm Drain at 1700 North 475 West, Sunset, UT (d)	10141395	0.28	1948-83
Howard Slough at Hooper, UT (d)	10141400	—	1952-55
			1972-84
Holmes Creek near Kaysville, UT (d)	10141500	2.49	1951-66
Farmington Creek above diversions near Farmington, UT (d)	10142000	10.0	1950-71
Ricks Creek above diversions, near Centerville, UT (d)	10142500	2.35	1951-66
Parrish Creek above diversions near Centerville, UT (d)	10143000	2.08	1950-68
Stone Creek above diversions near Bountiful, UT (d)	10144000	4.48	1951-66
Mill Creek at Mueller Park near Bountiful, UT (d)	10145000	8.88	1951-68
Storm Drain east of Orchard Drive at Bountiful, UT (d)	10145125	0.80	1949-83
Storm Drain to Mill Creek, 620 South 200 West, Bountiful, UT (d)	10145126	0.28	1949-83
Salt Creek near Nephi, UT (d)	10145500	a95	1925-38
JORDAN RIVER BASIN			
Currant Creek near Goshen, UT (d)	10146500	303	1954-60
Summit Creek near Santaquin, UT (d)	10147000	19.2	1911-16
		14.6	1955-66
Payson Creek above diversions, near Payson, UT (d)	10147500	18.8	1948-62
Payson Creek (Peteetneet Creek) near Payson, UT (d)	10148000	25.6	1910-16
Tie Fork near Soldier Summit, UT (d)	10148200	19.4	1964-96
Nebo Creek near Thistle, UT (d)	10148400	36.7	1964-73
Spanish Fork at Thistle, UT (d)	10148500	450	1908-25
			1932-74
Spanish Fork below Halls Falls near Thistle, UT (d)	10148510	452	1983-92
Diamond Fork below Red Hollow, near Thistle, UT (d)	10149500	107	1953-69
			1989-2001

Station name	Station number	Drainage area (sq mi)	Period of record
JORDAN RIVER BASIN—Continued			
Diamond Fork near Thistle, UT (d)	10150000	141	1908-17 1940-55
U.S. Bureau of Reclamation Power Canal near Spanish Fork, UT (d)	10151000	—	1909-17
Spanish Fork near Spanish Fork, UT (d)	10151500	a670	1909-17
Spanish Fork near Lakeshore, UT (d)	10152000	675	1904-07 1909-25 1938-88
Spanish Fork at mouth near Lake Shore, UT (d)	10152001	—	1978-82
Hobble Creek near Springville, UT (d)	10152500	105	1904-16 1945-74
Maple Creek near Mapleton, UT (d)	10152700	3.13	1965-72
Maple Creek near Springville, UT (d)	10153000	10.8	1912-13
Provo River near Kamas, UT (d)	10153500	29.6	1950-69
North Fork Provo River near Kamas, UT (d)	10153800	24.4	1964-96
Shingle Creek near Kamas, UT (d)	10154000	a8.4	1963-73
Provo River below Jordanelle Dam, near Heber, UT (d)	10155100	252	1991-94
Daniels Creek above diversions near Heber City (d)	10157000	37.2	1992-98
Round Valley Creek near Wallsburg, UT (d)	10158500	71.9	1938-50
Deer Creek Reservoir near Charleston, UT (e)	10159000	560	1940-68
Deer Creek near Wildwood, UT (d)	10160000	a26	1939-50
Provo River near Wildwood, UT (d)	10160500	574	1939-49
North Fork Provo River at Wildwood, UT (d)	10160800	12.3	1965-74
Provo River at Vivian Park, UT (d)	10161000	598	1912-63
South Fork Provo River at Vivian Park, UT (d)	10161500	33.4	1912-62
Provo River above Telluride Power Company Dam near Provo, UT (d)	10162000	a640	1905-11
Provo River at mouth of canyon near Provo, UT (d)	10162500	a640	1889-1906
Rock Creek Overflow east of Highway 189 near Provo, UT (d)	10162850	0.66	1948-83
South Fork of American Fork near American Fork, UT (d)	10164000	8.87	1912-14
American Fork (River) near American Fork, UT (d)	10165000	a66	1889-90 1897 1900-01 1903-05
Dry Creek near Alpine, UT (d)	10165500	9.82	1948-55
Fort Creek at Alpine, UT (d)	10166000	6.55	1947-55
Utah Lake near Lehi (at Geneva) (near Spanish Fork), UT (e)	10166500	2,965	1883-1960
Jordan River at Narrows, near Lehi, UT (d)	10167000	3,010	1904 1913-88
Jordan River Station No. 1 at Narrows, UT (d)	10167001	—	1980-83
East Jordan Canal at Jordan Narrows near Bluffdale, UT (d)	10167100	—	1980-83
East Jordan Canal at Little Cottonwood Creek near Sandy, UT (US) (d)	10167105	—	1980-82
East Jordan Canal at Little Cottonwood Creek near Sandy, UT (DS) (d)	10167106	—	1980-82
East Jordan Canal at pumphouse at 6200 South near Murray, UT (d)	10167115	—	1980-82
Upper Canal at 5800 South (Tolcate Lane) near Murray, UT (d)	10167122	—	1980-82
Upper Canal at Wild Rose Lane near Salt Lake City, UT (d)	10167125	—	1980-82
Faust Creek below Tooele City well near Vernon, UT (d)	10172726	—	1992-96
Upper Canal at Mill Creek (2000 East) near Salt Lake City, UT (d)	10167127	—	1980-81
Jordan & Salt Lake Canal at Little Cottonwood Creek near SLC, UT (US) (d)	10167141	—	1980-82
Jordan & Salt Lake Canal at Little Cottonwood Creek near SLC, UT (DS) (d)	10167142	—	1980-82
Jordan & Salt Lake Canal at Big Cottonwood Creek near Murray, UT (US) (d)	10167145	—	1980-81
Jordan & Salt Lake Canal at Big Cottonwood Creek near Murray, UT (DS) (d)	10167146	—	1980-81
Jordan & Salt Lake Canal at Mill Creek near Salt Lake City, UT (US) (d)	10167147	—	1980-82
Jordan & Salt Lake Canal at Mill Creek near Salt Lake City, UT (DS) (d)	10167148	—	1980-82
Jordan & Salt Lake Canal at Zenith Avenue near Salt Lake City, UT (d)	10167149	—	1980-81
Utah & Salt Lake Canal at Jordan Narrows near Bluffdale, UT (d)	10167160	—	1980-83
Jordan River at 9400 South near South Jordan, UT (d)	10167200	q3,130	1965-67
Bells Canyon Conduit 1000 East 110000 South (d)	10167220	—	1948-81 1982-86

Station name	Station number	Drainage area (sq mi)	Period of record
JORDAN RIVER BASIN—Continued			
Jordan River at 90th South near Midvale, UT (d)	10167230	q3,130	1980-84 1986-89
90th South Conduit at Jordan River near Midvale, UT (d)	10167240	—	1980-84
I-215 Median Drain at Jordan River near Murray, UT (d)	10167242	0.20	1984-86
Jordan River at 5800 South near Salt Lake City, UT (d)	10167300	q3,254	1965-68 1980-85
Little Cottonwood Creek (channel) near Salt Lake City, UT (d)	10167499	—	1980-88
Little Cottonwood Creek near Salt Lake City, UT (d)	10167500	27.4	1898-99 1904-68 1980
Little Cottonwood Creek at 2050 East near Salt Lake City, UT (d)	10167700	35.2	1963-67 1979-81 1983-87
Little Cottonwood Creek at Crestwood Park at Salt Lake City, UT (d)	10167800	36	1999-2000
Big Cottonwood Creek (Cottonwood Creek) near Salt Lake City, UT (d)	10168500	50.0	1898-1967
Big Cottonwood Creek at 5550 South near Salt Lake City, UT (d)	10168800	57.3	1964-68 1980-89
Neffs Creek above Wasatch Boulevard near Salt Lake City, UT (d)	10168832	—	1984-86
Spring Run at 9th East & 48th South near Murray, UT (d)	10169000	—	1933-35
Big Cottonwood Creek at Jordan River near Salt Lake City, UT (d) (at 2nd West near Murray, UT)	10169500	a78	1933-35 1980-82 1987-88
Mill Creek above Elbow Fork near Salt Lake City, UT (d)	10169800	7.7	1964-68
Mill Creek near Salt Lake City, UT (d)	10170000	21.7	1964-68 1980
Boundry Springs near Salt Lake City, UT (d)	10170001	—	1963-67
Mill Creek at 2200 East near Salt Lake City, UT (d)	10170200	22.6	1963-67
Mill Creek at Jordan River near Salt Lake City, UT (d)	10170250	a32	1984 1986-88
North Point Canal below Goss Flume at Salt Lake City, UT (d)	10170700	—	1963-67 1979-83
Surplus Canal at North Temple at Salt Lake City, UT (d)	10170750	—	1976-82
Surplus Canal at Cohen Flume near Salt Lake City, UT (d)	10170800	—	1963-67
Parleys Creek near Salt Lake City, UT (d)	10171500	50.1	1898-1963
Parleys Creek at Suicide Rock near Salt Lake City, UT (d)	10171600	50.7	1964-68 1980-88
Emigration Creek below Burr Fork near Salt Lake City, UT (d)	10171900	5.9	1964-68
Emigration Creek near Salt Lake City, UT (d)	10172000	18.4	1898-1960 1960-68 1980-86
Emigration Creek below 1300 East at Salt Lake City, UT (d)	10172100	a9	1963-67
Red Butte Creek below reservoir near Salt Lake City, UT (d)	10172220	7.95	1942-67 1980-88
1300 South Conduits at Jordan River, combined flows (d)	10172350	—	1981 1987-88
South Conduit of 1300 South Conduit at Jordan River, Salt Lake City, UT (d)	10172351	—	1986-89
North Conduit of 1300 South Conduit at Jordan River, Salt Lake City, UT (d)	10172352	—	1980-81 1985-89
City Creek above Wasatch Drive, near Salt Lake City, UT (d)	10172400	17.0	1964-68
City Creek near Salt Lake City, UT (d)	10172500	19.2	1898-1960 1960-69 1980
Jordan River at 5th North at Salt Lake City, UT (d)	10172550	—	1975-86
Jordan River at Cudahy Lane near Salt Lake City, UT (d)	10172600	q3,590	1963-68 1974-76
Sewage Canal at Cudahy Lane near Salt Lake City, UT (d)	10172620	—	1963-67

Station name	Station number	Drainage area (sq mi)	Period of record
JORDAN RIVER BASIN—Continued			
Storm Drain at International Center near Salt Lake City, UT (d)	10172624	0.08	1984-86
Goggin Drain near Magna, UT (d)	10172630	—	1964-67 1972-84
Lee Creek near Magna, UT (d)	10172640	—	1972-82
Kennecott Drain near Magna, UT (d)	10172650	—	1964-67 1972-84
RUSH VALLEY			
East Government Creek Tributary near Vernon, UT (d)	10172720	a0.98	1961-74
TOOELE VALLEY			
Faust Creek below Tooele City Well near Vernon, UT (d)	10172726	—	1992-96
Clover Creek above Big Hollow, near Clover, UT (d)	10172765	6.71	1985-2001
Settlement Creek above reservoir near Tooele, UT (d)	10172791	16.8	1988-98
Middle Canyon Creek near Tooele, UT (d)	10172794	12.1	1984-86
Box Elder Wash near Grantsville, UT (d)	10172795	9.84	1986-94
North Willow Creek near Grantsville, UT (d)	10172805	5.38	1979-92
GREAT SALT LAKE DESERT			
Trout Creek near Callao, UT (d)	10172870	8.19	1959-95
Deep Creek near Goshute, UT (d)	10172893	a43	1964-68
Great Salt Lake West Pond near Wendover, UT (e)	10172903	—	1987-89
Pine Creek near Grouse Creek, UT (d)	10172921	—	1972-73
Dove Creek near Park Valley, UT (d)	10172940	33.2	1959-68 1971-73
Fisher Creek near Park Valley, UT (d)	10172950	—	1972-73
Indian Creek near Park Valley, UT (d)	10172955	—	1971-73
West Locomotive Spring at Locomotive Spring near Snowville, UT (d)	10172963	—	1969-73
Baker Spring at Locomotive Spring near Snowville, UT (d)	10172964	—	1969-73
Bar M Spring at Locomotive Spring near Snowville, UT (d)	10172965	—	1969-80
Off Spring at Locomotive Spring near Snowville, UT (d)	10172967	—	1969-80
Sparks Spring at Locomotive Spring near Snowville, UT (d)	10172968	—	1969-80
SEVIER LAKE BASIN			
Hatch Bence Canal near Hatch, UT (d)	10173000	—	1914 1916-19
Mammoth Creek near Hatch, UT (d)	10173500	151	1912-14 1915-19
Midway Creek near Hatch, UT (d)	10173600	25.7	1958-62
Navajo Lake west of Dyke near Hatch, UT (e)	10173700	—	1954-59
Duck Creek near Hatch, UT (d)	10173900	—	1954-59
Asay Creek above West Fork near Hatch, UT (d)	10174000	105	1954-59
Asay Creek near Hatch, UT (d)	10174200	a96	1912-14 1939-41
Red Canyon Tributary near Bryce Canyon, UT (d)	10174800	a2.2	1959-74
State Canal near Panquitch, UT (d)	10175500	—	1913-19
Long Canal near Panquitch, UT (d)	10176000	—	1914-19
Panquitch Creek near Panguitch, UT (d)	10176300	97.0	1961-80
East Panquitch Canal near Panguitch, UT (d)	10176500	—	1914-19
Panguitch Creek above Canals near Panguitch, UT (d)	10177000	a110	1915-20
Panguitch Creek below Canals at Panguitch, UT (d)	10177500	—	1915 1917-18
Barton and LeFevere Canal near Panguitch, UT (d)	10178000	—	1915-19
McEwen Canal near Panguitch, UT (d)	10178500	—	1914-19
Old Houston Canal near Panguitch, UT (d)	10179000	—	1915-19

Station name	Station number	Drainage area (sq mi)	Period of record
SEVIER LAKE BASIN—Continued			
Sevier River near Circleville, UT (d)	10180000	986	1912 1914-27 1950-95
Fox Canal near Circleville, UT (d)	10180500	—	1914-19
Circleville Canal near Circleville, UT (d)	10181000	—	1914-19
Old Kingston Canal near Circleville, UT (d)	10181500	—	1914-19
Dalton Canal at Circleville, UT (d)	10182000	—	1914-19
Mitchell Slough Canal near Junction, UT (d)	10182500	—	1914-19
Junction Middle Canal near Junction, UT (d)	10183000	—	1915-19
East Fork Sevier River near Ruby's Inn, UT (d)	10183900	71.6	1962-95
Tropic and East Fork Canal near Tropic, UT (d)	10184000	—	1950-61
East Fork Sevier River near Antimony, UT (d)	10184450	a570	1961-66
Coyoto Canal near Coyoto, UT (d)	10184500	—	1916-19
Antimony Creek near Antimony, UT (d)	10185000	50.3	1946-48 1957-76
East Fork Sevier River at Antimony (Coyoto), UT (d)	10185500	—	1915-19
Otter Creek Reservoir Feeder Canal at mouth near Coyoto, UT (d)	10186500	—	1915-20
Otter Creek near Koosharem, UT (d)	10187300	23.5	1964-82
Otter Creek above reservoir near Antimony, UT (d)	10187500	322	1915-20 1961-64 1971-80
Otter Creek Reservoir near Antimony, UT (e)	10188000	373	1914-15 1934-95
Otter Creek near Antimony (Coyoto), UT (d)	10188500	—	1913-19
Combined Flow Sevier River and East Fork Sevier River (d)	10189001	—	1915-77
Kingston Canal at Kingston, UT (d)	10189500	—	1914-19
Sevier River near Junction, UT (d)	10190500	a2,390	1911-16
Piute Reservoir near Marysvale, UT (e)	10191000	2,438	1914-95
Sevier River near Marysvale, UT (d)	10192000	a2,560	1906-11
Sevier River at Marysvale, UT (d)	10192500	a2,580	1912-14
Pine (Bullion) Creek at Marysvale, UT (d)	10193500	a29	1914 1918-19
Sevier River above Clear Creek, near Sevier, UT (d)	10194000	2,707	1911-16 1939-55 1961-95
Cove Canal at Sevier, UT (d)	10194500	—	1914-19
Clear Creek at Sevier, UT (d)	10195000	169	1912-19 1934-58
Sevier River at Sevier, UT (d)	10195500	a2,850	1917-29
Monroe South Bend Canal near Joseph, UT (d)	10196000	—	1914-19
Sevier Valley Canal near Joseph, UT (d)	10196500	—	1912-19
Joseph Canal near Joseph, UT (d)	10197000	—	1914-19
Sevier Valley Canal near Richfield, UT (d)	10198000	—	1912-19
State Canal near Redmond, UT (d)	10200000	—	1913-19
Wells Canal near Joseph, UT (d)	10200500	—	1914-19
Monroe Canal near Elsinore, UT (d)	10201000	—	1914-19
Elsinore Canal near Elsinore, UT (d)	10201500	—	1914-19
Brooklyn Canal near Elsinore, UT (d)	10202000	—	1914-19
Richfield Canal near Elsinore, UT (d)	10202500	—	1914-19
Annabella Canal at Elsinore, UT (d)	10203000	—	1914-19
Vermilion Canal near Richfield, UT (d)	10203500	—	1914-19
Sevier River near Richfield, UT (d)	10204000	—	1916-18
Mill Creek near Glenwood, UT (d)	10204200	18.9	1963-74
Rockyford Canal near Vermilion, UT (d)	10204500	—	1914-35
Sheep Creek near Salina, UT (d)	10205100	0.30	1958-69
West Fork Sheep Creek near Salina, UT (d)	10205200	0.43	1958-69
Sheep Creek at mouth near Salina, UT (d)	10205300	1.47	1958-69

Station name	Station number	Drainage area (sq mi)	Period of record
SEVIER LAKE BASIN—Continued			
Salina Creek at Salina, UT (d)	10206000	292	1914-16 1918-19 1943-55 1960-95
Sevier River below Salina Creek near Salina, UT (d)	10206001	—	1985-86
West View Canal at Redmond, UT (d)	10206500	—	1914-19
Fayette Canal near Centerfield, UT (d)	10207000	—	1914-19
Dover Canal near Gunnison, UT (d)	10207500	—	1914-19
Sevier River near Gunnison, UT (d)	10208000	a3,990	1901-17
Oak Creek near Fairview, UT (d)	10208500	11.8	1965-89
Pleasant Creek near Mount Pleasant, UT (d)	10210000	—	1955-75
Twin Creek near Mount Pleasant, UT (d)	10211000	a5.9	1955-66
San Pitch River near Mount Pleasant, UT (d)	10210500	170	1988-89
Big Hollow at Fountain Green, UT (d)	10215500	—	1965-68
Oak Creek near Spring City, UT (d)	10215700	8.35	1964-74 1979-94
Gunnison Reservoir near Sterling, UT (e)	10216200	a670	1966-83
San Pitch River near Sterling, UT (d)	10216210	672	1965-80
Twelvemile Creek near Mayfield, UT (d)	10216400	59.4	1960-80
San Pitch River near Gunnison, UT (d)	10216500	886	1900-05 1912-18 1952
Sevier River at Clark's Bridge near Fayette, UT (d)	10217500	a4,960	1914-16
Sevier Bridge Reservoir near Juab, UT (e)	10218500	5,155	1914-95
Wellington Canal near Mills, UT (d)	10219100	—	1914-18
Chicken Creek near Levan, UT (d)	10219200	27.9	1963-95
Sevier River near Mills, UT (d)	10220000	a5,800	1914-17
Sevier River Land and Water Company Canal near Leamington, UT (d)	10220500	—	1914-19
McIntyre Canal near Leamington, UT (d)	10222500	—	1914-18
Leamington Canal near Leamington, UT (d)	10223000	—	1914-19
Sevier River at Leamington, UT (d)	10223500	a5,860	1889-93 1912-14
Oak Creek above Little Creek, near Oak City, UT (d)	10224100	5.58	1964-97
Oak Creek below Big Spring near Oak City, UT (d)	10224300	17.8	1979-86
Delta and Melville Reservoir near Delta, UT (e)	10224500	—	1914-17
Canal A (Delta and Melville Canal) near Delta, UT (d)	10225000	—	1912-19
Sevier River near Delta, UT (d)	10228000	a7,380	1912-19
Gunnison Bend Reservoir near Delta, UT (e)	10228500	—	1914-19
Sevier River at Oasis, UT (d)	10231500	a8,080	1912-27
Chalk Creek near Fillmore, UT (d)	10232500	58.7	1914 1945-71
Meadow Creek near Meadow, UT (d)	10233000	11.6	1914 1965-75
Corn Creek near Kanosh, UT (d)	10233500	—	1914 1965-75
Three Creeks near Beaver, UT (d)	10234000	19.5	1947-61
South Creek near Beaver, UT (d)	10235000	14.7	1906 1965-76
North Fork North Creek above Pole Creek near Beaver, UT (d)	10235500	a6.9	1947-49
North Fork North Creek near Beaver, UT (d)	10236000	14.1	1906 1966-76
South Fork North Creek near Beaver, UT (d)	10236500	23.0	1906 1966-76
Indian Creek near Beaver, UT (d)	10237500	18.5	1906 1947-49 1965-76
Indian Creek at Adamsville, UT (d)	10238000	a180	1914-16

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

Station name	Station number	Drainage area (sq mi)	Period of record
SEVIER LAKE BASIN--Continued			
Minersville Reservoir near Minersville, UT (e)	10238500	534	1915-22 1938-95
Minersville Canal at Minersville, UT (d)	10239500	—	1906 1914 1951-55
Beaver River at Minersville, UT (d)	10240000	a560	1909-13 1951-55
Beaver River near Milford, UT (d)	10241000	a1,100	1952-55
PAROWAN VALLEY			
Little Creek near Paragonah, UT (d)	10241400	15.8	1960-80
Red Creek near Paragonah, UT (d)	10241430	a6.3	1965-75
Center Creek above Parowan Creek near Parowan, UT (d)	10241470	11.6	1965-87
Center Creek near Parowan, UT (d)	10241500	a60	1943-50
Summit Creek near Summit, UT (d)	10241600	24.0	1965-87
CEDAR VALLEY, IRON COUNTY			
Ashdown Creek near Cedar City, UT (d)	10241800	13.1	1958-61
Grassy Creek near Enterprise, UT (d)	10242430	a2.5	1965-68
SNAKE VALLEY			
Snake Creek near Baker, NV (d)	10243230	a30	1913-15
Baker Creek at Narrows near Baker, NV (d)	10243240	16.4	1947-55
Baker Creek near Baker, NV (d)	10243250	a10	1913-15
Lehman Creek near Baker, NV (d)	10243260	a11	1947-55
SNAKE RIVER BASIN			
George Creek near Yost, UT (d)	13077700	7.84	1959-89
Clear Creek near Naf, ID (d)	13079000	20.2	1910-11 1944-70

The following stations were discontinued as continuous-record surface-water-quality stations prior to the 2002 water year. Daily records of (b) microbiological, (c) chemical and/or specific conductance, (s) sediment, or (t) water temperature were collected and published for the record shown for each station. Stations shown in bold were discontinued at the end of the previous water year. Abbreviation: a, approximate.

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
COLORADO RIVER BASIN				
Cottonwood Wash at I-70 near Cisco, UT	09163675	170	c,s,t	1983-86
TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER				
Onion Creek above Onion Creek Bridge near Moab, UT	09180920	—	c,t	1980-81
Onion Creek below Onion Creek Bridge near Moab, UT	09180970	—	c,t	1980-81
Castle Creek above diversions, near Moab, UT	09182000	7.58	c,t	1971-75
Courthouse Wash near Moab, UT	09183000	162	c,t	1971-89
Indian Creek Tunnel near Monticello, UT	09185800	—	c,t	1971-80
Indian Creek below Bogus Pocket near Monticello, UT	09187550	262	c,s,t	1983-88
GREEN RIVER BASIN				
East Fork Beaver Creek near Lonetree, WY	09227000	a8.2	c,s,t	1977
Sheep Creek Upper Canal near Manila, UT	09231000	—	c	1976
Red Creek near Dutch John, UT	09234700	140	c,s,t	1971-76
Crouse Creek near Vernal, UT	09235100	30.2	c,t	1987-90
Pot Creek near Vernal, UT	09235800	107	c,t	1971-82
ASHLEY CREEK BASIN				
Brush Creek above cave near Vernal, UT	09261500	a23	c,t	1950-73
Big Brush Creek near Vernal, UT	09262000	79.6	c,t	1908-81
Little Brush Creek near Vernal, UT	09263000	a28	c	1950
Brush Creek near Jensen, UT	09263500	255	c	1988-89
Oaks Park Canal near Vernal, UT	09265000	—	c	1957
Ashley Creek above Red Pine Creek near Vernal, UT	09265300	55.8	c,t	1971-75
Dry Fork above sinks, near Dry Fork, UT	09268000	44.4	c,t	1954-75
North Fork of Dry Fork near Dry Fork, UT	09268500	8.62	c,t	1955-89
Brownie Canyon above sinks, near Dry Fork, UT	09268900	8.24	c,t	1971-89
East Fork of Dry Fork at mouth near Dry Fork, UT	09269500	a18	c,t	1954
Dry Fork below springs near Dry Fork, UT	09270000	97.4	c,t	1947-58
Dry Fork at mouth near Dry Fork, UT	09270500	116	c,t	1954-89
Ashley Creek at Sign of the Maine, near Vernal, UT	09271000	241	c,t	1947
				1949
				1955-58
				1973-74
Highline Canal below Mantle Gulch near Jensen, UT	09271070	—	c,t	1971-72
River Irrigation Company Canal near Jensen, UT	09271470	—	c,t	1971-72
Ashley Creek near Jensen, UT	09271500	383	c,t	1947-51
				1954-58
				1971-83
				1986-89
Stewart Lake Outflow near Jensen, UT	09271600	—	c,t	1986-97
DUCHESNE RIVER BASIN				
Duchesne Tunnel near Kamas, UT	09272500	—	c,t	1972
Duchesne River at Provo River Trail near Hanna, UT	09273000	a39	c	1954
				1957
				1956-57
Hades Creek near Hanna, UT	09273500	a75	c	1951
				1960-62
Duchesne River (North Fork) near Hanna, UT	09274000	a78	c,t	1988

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
DUCHESNE RIVER BASIN—Continued				
West Fork Duchesne River below Dry Hollow near Hanna, UT	09275000	43.8	c,t	1957 1960 1964 1974-81
Wolf Creek above Rhoades Canyon near Hanna, UT	09276000	10.6	c,t	1951 1956-57 1962 1971-83
Duchesne River at Hanna, UT	09277000	a230	c,t	1957-64 1973
Rock Creek near Hanna, UT	09278500	122	c,t	1957 1974-83 1987-88
Rock Creek below Miners Gulch near Hanna, UT	09278700	133	c,t	1974-81
Red Creek above reservoir, near Fruitland, UT	09286100	34.1	c,t	1986-91
Rock Creek near Talmage, UT	09291000	238	c,t	1947-48 1963-65 1971-91
Duchesne River at Duchesne, UT	09279500	a660	c,t	1941-43 1946-74
Hobble Creek at Daniels Summit near Wallsburg, UT	09280400	2.89	c,t	1971-83
Strawberry Reservoir near Soldier Springs, UT	09282500	170	c	1949 1957-58
Willow Creek near Soldier Springs, UT	09285500	a44	t	1990
Strawberry River above Red Creek near Fruitland, UT	09285700	363	c,t	1941 1971-81
Red Creek near Fruitland, UT	09286500	a89	c	1941 1947-49 1957-58
Currant Creek below Red Ledge Hollow near Fruitland, UT	09287000	50.1	c,t	1951 1956-57 1962-64 1971-83
Water Hollow near Fruitland, UT	09287500	a14	c,t	1956-57 1960-64 1971-83
Red Creek below Currant Creek near Fruitland, UT	09288100	297	c,t	1971-81
West Fork Avintaquin Creek near Fruitland, UT	09288150	56.1	c,t	1971-83
Strawberry River at Duchesne (Theodore), UT	09288500	1,066	c,t	1941 1946-50 1954-58 1962-68 1973-74
Sowers Creek near Duchesne, UT	09288900	40.6	c,t	1971-83
Antelope Creek near Myton, UT	09289000	a198	c	1941 1949
Lake Fork River below Taskeech Damsite near Mountain Home, UT	09291200	138	c,t	1977-83
Yellowstone River at mouth near Altonah, UT	09293000	142	c,t	1977-81
Lake Fork River (below Forks) near Altonah, UT	09293500	304	c,t	1949 1977-81
Lake Fork River at Highway 87 near Altamont, UT	09293600	318	c,t	1977-81
Pigeon Water Creek near Altamont, UT	09293700	95.5	c,t	1977-78
Lake Fork River near Upalco, UT	09294000	427	c,t	1941 1957-58 1964-65 1973 1977-81

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
DUCHESNE RIVER BASIN—Continued				
Lake Fork (Creek) near Myton, UT	09294500	484	c,t	1941 1947-48 1951 1973 1977-81
Uinta River near Neola, UT	09297000	163	c,t	1941 1957-58 1963-83
Uinta River near Whiterocks, UT	09297500	218	c	1849
West Channel Uinta River below diversion works near Whiterocks, UT	09297600	216	c,t	1977-81
East Channel Uinta River below diversion works near Whiterocks, UT	09297700	215	c,t	1977-81
East Channel Uinta River at County Road Bridge near Whiterocks, UT	09297800	253	c,t	1977-81
East Channel Uinta River at LaPoint Road near LaPoint, UT	09297900	382	c,t	1977-82
Farm Creek near Whiterocks, UT	09298000	14.9	c,t	1971-81
Whiterocks River below damsite near Whiterocks, UT	09299400	110	c,t	1977-81
Whiterocks River below Farm Creek Canal near Whiterocks, UT	09299600	120	c,t	1977-81
Whiterocks River 1 Mile East of Whiterocks, UT	09299700	124	c,t	1977-81
Deep Creek at State Highway 246 near LaPoint, UT	09299900	72.2	c,t	1977-79
Uinta River at Fort Duchesne, UT	09300500	557	c,t	1941 1947-51 1954-59 1965-70 1973 1977-81
Dry Gulch near Neola, UT	09301000	a67	c	1958 1963-64
Dry Gulch near Fort Duchesne, UT	09301200	469	c,t	1977-81
Uinta River at Randlett, UT	09301500	1,064	c,s,t	1950 1963 1977-81
WHITE RIVER BASIN				
White River near Colorado State Line, UT	09306395	3,680	c,s,t	1976-85
White River above Hells Hole Canyon near Watson, UT	09306400	a3,700	c,s,t	1974-76
Hells Hole Canyon Creek at mouth near Watson, UT	09306405	24.5	c,s,t	1975-76 1979-82
Evacuation Creek above Missouri Creek near Dragon, UT	09306410	100	c,s,t	1974-83
Evacuation Creek below Park Canyon near Watson, UT	09306415	246	c,s,t	1974-75
Evacuation Creek at Watson, UT	09306420	259	c,s,t	1948 1974-77
Evacuation Creek near mouth near Watson, UT	09306430	284	c,s,t	1974-83
White River below Southam Canyon near Watson, UT	09306600	a4,030	c,s,t	1974-76
Southam Canyon Wash near Watson, UT	09306605	2.5	c,s,t	1976
Southam Canyon Wash at mouth near Watson, UT	09306610	8.3	c,s,t	1976 1979-82
Asphalt Wash below Center Fork near Watson, UT	09306620	94.4	c,s,t	1976
Asphalt Wash near mouth near Watson, UT	09306625	97.5	c,s,t	1975-76 1979-81
White River below Asphalt Wash near Watson, UT	09306700	a4,130	c,s,t	1974-78 1981-83
Bitter Creek above Dick Canyon near Watson, UT	09306740	11.7	c,s,t	1974-78
Sweetwater Canyon below South Canyon near Watson, UT	09306760	22.6	c,s,t	1974-78
Sweetwater Canyon Creek near mouth near Watson, UT	09306780	124	c,s,t	1975-78
Bitter Creek near Bonanza, UT	09306800	324	c,s,t	1971-83 1987-88
Bitter Creek at mouth near Bonanza, UT	09306850	398	c,s,t	1974-83

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
WHITE RIVER BASIN—Continued				
Sand Wash near Ouray, UT	09306870	59.7	c,t	1976-1979-1980
Sand Wash at mouth near Ouray, UT	09306872	71.1	c,s,t	1978-80
Coyote Wash near mouth near Ouray, UT	09306878	228	c,s,t	1976-83
North Wash near Ouray, UT	09306880	11.0	c,t	1980-81
Cottonwood Wash near mouth near Ouray, UT	09306885	70.6	c,s,t	1977-81
White River at mouth near Ouray, UT	09306900	5,120	b,c,s,t	1974-86
TRIBUTARIES BETWEEN DUCHESNE RIVER AND PRICE RIVER				
Green River near Ouray, UT	09307000	a35,500	c,s,t	1950-52-1958-66
Pariette Draw near Ouray, UT	09307200	153	c,s,t	1975-84
Pariette Draw at mouth near Ouray, UT	09307300	298	c,s,t	1975-84-1987-91
Willow Creek above diversions near Ouray, UT	09307500	297	c,s,t	1969-70-1974-83
Hill Creek above Towave Reservoir near Ouray, UT	09307800	89.7	c,s,t	1974-81
Hill Creek near mouth near Ouray, UT	09307900	288	c,s,t	1975-81
Willow Creek near Ouray, UT	09308000	897	c,s,t	1950-55-1974-83
Minnie Maud Creek near Myton, UT	09308500	32.0	c,t	1971-83-1987-89
PRICE RIVER BASIN				
Fairview Ditch near Fairview, UT	09309500	—	c	1958
Gooseberry Creek near Fairview, UT	09309800	a7.51	c,t	1969-70
Boardinghouse Creek at mouth near Scofield, UT	09310575	2.04	c,s,t	1982-84
Eccles Canyon near Scofield, UT	09310600	5.5	b,c,s,t	1979-84
Price River near Scofield, UT	09311500	a155	c,t	1962-1969-70-1979-80
White River near Soldier Summit, UT	09312500	52.8	c,t	1947-1957-58-1969-1979
Beaver Creek near Soldier Summit, UT	09312700	26.1	c,t	1969-83-1987-89
Willow Creek near Castle Gate, UT	09312800	62.8	c,t	1969-83-1987-89
Willow Creek at Castle Gate, UT	09312900	77.4	b,c,s,t	1979-81
Spring Canyon below Sowbelly Gulch at Helper, UT	09313040	23.0	c,s,t	1978-81
Price River near Helper, UT	09313500	a530	c,t	1970
Coal Creek near Helper, UT	09313965	25.3	b,c,s,t	1976-81
Soldier Creek below mine near Wellington, UT	09313975	17.7	b,c,s,t	1969-1976-84
Dugout Creek near Sunnyside, UT	09313985	5.8	b,c,s,t	1979-81
Price River below Miller Creek near Wellington, UT	09314250	956	c,t	1969-83
Desert Seep Wash near Wellington, UT	09314280	191	c,t	1969-1972-83
Grassy Trail Creek at Sunnyside, UT	09314340	40.1	b,c,s,t	1975-84
Horse Canyon near Sunnyside, UT	09314374	12.5	b,c,s,t	1975-81

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
TRIBUTARIES BETWEEN PRICE RIVER AND SAN RAFAEL RIVER				
Saleratus Wash at Green River, UT	09315500	a180	c	1947-48 1957
Browns Wash near Green River, UT	09316000	a75	c	1948 1957
Floy Wash near Green River, UT	09316100	56.6	c,s,t	1983-86
Candland Ditch near Mt Pleasant, UT	09317500	—	c	1958
Crandall Canyon at mouth near Huntington, UT	09317919	5.7	b,c,s,t	1976-84
Tie Fork Canyon near Huntington, UT	09317920	11.7	b,c,s,t	1978-81
Huntington Creek near Huntington, UT	09318000	187	b,c,s,t	1949 1956-79
Larsen Tunnel near Ephraim, UT	09320500	—	b	1978
Seely Creek near Orangeville, UT	09324000	a150	c,t	1956-58 1975
Cottonwood Creek above Straight Canyon near Orangeville, UT	09324200	21.9	b,c,s,t	1978-81
Cottonwood Creek near Orangeville, UT	09324500	208	c,s,t	1946 1956-83
Cottonwood Creek near Castle Dale, UT	09325000	26	c,t	1948 1958-62 1975-78
San Rafael River Above Ferron Creek near Castle Dale, UT	09325100	a680	c,t	1964-65 1968 1977-78
Ferron Creek near Castle Dale, UT	09327500	a210	c,t	1960-68 1974-78
San Rafael River near Castle Dale, UT	09328000	930	c,t	1948 1957-68
San Rafael River at San Rafael Bridge Campground, near Castle Dale, UT	09328100	1,28	c,s,t	1975-83
DIRTY DEVIL RIVER BASIN				
Seven Mile Creek near Fish Lake, UT	09239050	24.0	c,t	1971-91
Fremont River near Fremont, UT	09329500	205	c,t	1975-76
Pine Creek near Bicknell, UT	09329900	104	c,t	1971-80
Pleasant Creek near Caineville UT	09330210	115	c,s,t	1969-72 1975-76
Bull Creek near Hanksville, UT	09330410	7.53	c,s	1983-91
Ivie Creek above diversions near Emery, UT	09331500	a50	c,t	1975-76
Convulsion Canyon near Emery, UT	09331850	21.6	c,s,t	1980-84
Quitcupah Creek near Emery, UT	09331900	104	b,c,s,t	1978-81
Christiansen Wash near Emery, UT	09331950	13.6	b,c,s,t	1978-84
Muddy Creek below I-70 near Emery, UT	09332100	418	c,s,t	1973-87
Muddy Creek at Delta Mine near Hanksville, UT	09332700	841	c,s,t	1975-85
Muddy Creek at mouth near Hanksville, UT	09332800	1,552	c,s,t	1975-80
Dirty Devil River near Hanksville, UT	09333000	a3,490	c,t	1975-76
Colorado River at Hite, UT	09335000	a76,600	c,s	1950-56
ESCALANTE RIVER BASIN				
East Fork Boulder Creek near Boulder, UT	09338000	21.4	c,t	1971-72
Escalante River at mouth near Escalante, UT	09339500	a1,770	c	1951-53
SAN JUAN RIVER BASIN				
McElmo Creek near Bluff, UT	09372200		c,t	1978-82
Spring Creek above diversions near Monticello, UT	09376900	4.95	c,t	1971-72
North Creek above Ranger Station near Monticello, UT	09378100	8.68	c,t	1980-83
Montezuma Creek near Bluff, UT	09378600	1,154	c	1985-93
Cottonwood Wash near Blanding, UT	09378700	205	c,s,t	1968-83

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
COLORADO RIVER TRIBUTARIES BELOW GLEN CANYON DAM				
Mill Creek above study area, near Glendale, UT	09403620	4.81	c,t	1975-77
Thompson Creek below study area, near Glendale, UT	09403660	16.6	c,t	1976-77
VIRGIN RIVER BASIN				
North Fork Virgin River near Glendale, UT	09405400	5.65	c,t	1973-78
North Fork Virgin River below Bulloch Canyon, near Glendale, UT	09405420	29.6	c,s,t	1975-79
North Fork Virgin River above Zion Narrows, near Glendale, UT	09405450	45.5	c,s,t	1980-84
LaVerkin Creek near LaVerkin, UT	09406150	91.3	c,t	1987-91
Kanarra Creek at Kanarraville, UT	09406300	9.85	c,t	1971-82
South Ash Creek below Mill Creek, near Pintura, UT	09406700	11.0	c,t	1971-82
Ash Creek above Toquerville, UT	09407000	201	c,t	1987-91
West Field Ditch at Toquerville, UT	09407150		c,t	1973-78
Ash Creek below West Field Ditch at Toquerville, UT	09407200	201	c,t	1973-82
Virgin River above Quail Creek near Hurricane, UT	09408135	1,381	t	1992-93
Virgin River near Hurricane, UT	09408150	1,499	c,s,t	1967-93
Santa Clara-Pinto Diversion near Pinto, UT	09408500	—	c,t	1973-76 1978-91
Santa Clara River above Winsor Dam near Santa Clara, UT	09410000	338	c,s,t	1962-72
Santa Clara River below Winson Dam, near Santa Clara, UT	09410100	378	c,t	1972-91
Santa Clara River near Santa Clara, UT	09410400	410	c,t	1971-74
Virgin River near St. George, UT	09413500	3,961	c,s,t	1966-73
THE GREAT BASIN				
Great Salt Lake at AIC near Syracuse, UT	10010300	—	c,t	1972
BEAR RIVER BASIN				
East Fork Bear River near Evanston, WY	10010400	34.6	c,t	1973-83
Hilliard East Fork Canal near State Line near Evanston, WY	10010500	—	c,t	1967 1973-79
West Fork Bear River at Whitney Dam, near Oakley, UT	10011200	a7.5	c,t	1965-67 1973-83
West Fork Bear River below Deer Creek near Evanston, WY	10011400	52.2	c,t	1973-83
Mill Creek at Utah-Wyoming State Line	10012000	a59	c,t	1961
Sulphur Creek above reservoir, below LaChapelle Creek, near Evanston, WY	10015700	64.2		1961-68 1972-84 1987-91
Sulphur Creek below Reservoir, near Evanston, WY	10015900	69.2	c,t	1958-92
Yellow Creek near Evanston WY	10017000	a80	c,t	1958 1961 1968 1972-78
Bear River near Evanston, WY	10019000	715	c,t	1967-68
Chapman Canal at State Line, near Evanston, WY	10019500	—	c,t	1957 1967-68 1972-83
Bear River near Woodruff, UT	10020500	a870	c,t	1957-58 1961
Woodruff Creek below reservoir, near Woodruff, UT	10020900	50.0	c,t	1972-83
Woodruff Creek near Woodruff, UT	10021000	a65	c,t	1961 1967-68 1972-75
Bear River near Randolph, UT	10026500	1,616	c,t	1943-92
Rock Creek near Fossil, WY	10026800	49.0	c,t	1961
Bear River below Pixley Dam, near Cokeville, WY	10028500	2,032	c,t	1958 1965-68 1973-83 1988-91

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
BEAR RIVER BASIN—Continued				
Muddy Creek above Mill Creek, near Cokeville, WY	10032700	20.7	c,t	1967-68
Mill Creek near Cokeville, WY	10032800	8.07	c,t	1967-68
Smiths Fork at Cokeville, WY	10035000	275	c,t	1984-85
Bear River at Border, WY	10039500	2,486	c,s	1966-93
Thomas Fork near Wyoming-Idaho state line, WY	10041000	113	c,t	1949-92
Bear River at Harer, ID	10044000	2,839	c,t	1967-68
St. Charles Creek above diversions, near St. Charles, ID	10054600	17.4	c,t	1967-68
Bloomington Creek at Bloomington, ID	10058600	24.0	c,t	1961
				1967-68
				1973-83
Bear River at Pescadero, ID	10068500	3,705	c,t	1967-68
				1972-91
				1999-2000
Eightmile Creek near Soda Springs, ID	10072800	22.6	c,t	1961
				1965-68
				1973-83
Bear River at Soda Springs, ID	10075000	3,972	c,t	1965-68
				1972-83
Cottonwood Creek near Cleveland, ID	10084500	61.7	c,t	1961
				1967-68
				1972-83
Mink Creek below Dry Fork, near Mink Creek, ID	10087500	19.3	c,t	1961
Bear River near Preston (at Battlecreek), ID	10090500	4,545	c,t	1947
				1953
				1961
				1965-68
				1973-83
Deep Creek near Clifton, ID	10091200	107	c,t	1967-68
				1972-78
Cub River near Preston, ID	10093000	19.4	c,t	1958-61
				1967-68
				1972-83
East Branch Cub River Canal near Lewiston, UT	10095900	—	c,t	1967-68
High Creek near Richmond, UT	10099000	16.2	c,t	1978-83
				1987-89
Cub River near Richmond, UT	10102200	—	c,t	1959
				1967-68
				1999-2000
Bear River near Smithfield, UT	10102250	5,193	c,t	1964-68
				1973-78
				1991
Summit Creek above diversions, near Smithfield, UT	10102300	11.6	c,t	1967-68
				1972-79
South Fork Little Bear River near Avon, UT	10104600	26.0	c,t	1967-68
				1972-74
Little Bear River below Davenport Creek, near Avon, UT	10104700	61.5	s	1986-91
East Fork Little Bear River above Reservoir, near Avon, UT	10104900	56.7	c,t	1967-68
				1972-83
Little Bear River near Paradise, UT	10106000	203	c,t	1947
				1961
				1967-68
				1972-83
Little Bear River near Hyrum, UT	10107500	222	c,t	1961
				1967-68
Little Bear River at Wellsville, UT	10107600	245	c,t	1967-68
Logan River below Blacksmith Fork, near Logan, UT	10115200	524	c,t	1964-68
				1972-80

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
BEAR RIVER BASIN—Continued				
Blacksmith Fork below Mill Creek, near Hyrum, UT	10111700	78	c,t	1965-69 1985-92
West Canal above Salt Creek diversion, near Tremonton, UT	10117510	—	c,t	1979-83
Deep Creek below First Creek, near Malad City, ID	10125000	a32	c,t	1967
West Canal below Salt Creek diversion, near Tremonton, UT	10117530	—	c,t	1979-83
Malad River near Plymouth, UT	10125600	a632	c,t	1964-65 1968 1972-80
Bear River Duck Club near Bear River City, UT	10125700	—	c,t	1967-68
Malad River below Bear River Duck Club Canal, near Bear River City, UT	10125800	a698	c,t	1965-68
Bear River near Corinne, UT	10126000	7,029	c,t	1973-94
TRIBUTARIES TO GREAT SALT LAKE BETWEEN BEAR RIVER AND WEBER RIVER				
Sulphur Creek near Corinne, UT	10126180	15.4	c,t	1963-64 1972-83
Salt Creek below Salt Spring, near Tremonton, UT	10127050	—	c,t	1979-83
Black Slough near Brigham City, UT	10127100	31.1	c,t	1973-83
WEBER RIVER BASIN				
Smith and Morehouse Creek near Oakley, UT	10128000	33.8	c,t	1975-83 1987
South Fork Weber River near Oakley, UT	10128200	a16	c,t	1971-74
Weber River near Peoa, UT	10129300	296	c,t	1971-77
Crandall Creek near Peoa, UT	10129350	11.8	c,t	1971-73
Silver Creek near Wanship, UT	10130000	27.9	c,t	1983-84 1991-92
East Fork Chalk Creek near Coalville, UT	10130700	a35	c,t	1972-74
Kimball Creek above East Canyon Creek, near Park City, UT	10133540	12.2	c,t	1990-92
McLeod Creek near Park City, UT	10133600	8.78	c,t	1991-95
Threemile Creek near Park City, UT	10133700	2.68	c,t	1971-74 1983
East Canyon Creek near Big Bear Hollow, near Park City, UT	10133895	75.0	c,t	1990-92
East Canyon Creek near Park City, UT	10133900	68.9	c,t	1983
North Fork Ogden River near Eden, UT	10137680	6.03	c,t	1971-74
Middle Fork Ogden River above diversion, near Huntsville, UT	10137780	31.3	c,t	1971-74
Wheeler Creek near Huntsville, UT	10139300	11.1	c,t	1971-75 1977-91
Ogden River near Ogden, UT	10139500	321	c,t	1988
Hooper Slough near Hooper, UT	10141040	13.0	c,t	1975 1979-83
Weber River near Plain City, UT	10141000	2,081	c,s	1974-93
South Fork Weber Canal near Hooper, UT	10141050	—	c,t	1972-75
South Fork Weber River near Hooper, UT	10141100	—	c,t	1972-75
North Fork Weber River near Hooper, UT	10141200	—	c,t	1972-76
TRIBUTARIES TO GREAT SALT LAKE BETWEEN WEBER RIVER AND JORDAN RIVER				
Howard Slough at Hooper, UT	10141400	—	c,s,t	1972-84
Farmington Creek above diversion, near Farmington, UT	10142000	10.0	c,t	1978-81
JORDAN RIVER BASIN				
Tie Fork near Soldier Summit, UT	10148200	19.4	c,t	1928 1971-91
Nebo Creek near Thistle, UT	10148400	36.7	c,t	1971-73
Spanish Fork at Thistle, UT	10148500	450	c,t	1971-74
Spanish Fork below Halls Falls, near Thistle, UT	10148510	452	c,t	1983-92

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
JORDAN RIVER BASIN—Continued				
Diamond Fork below Red Hollow, near Thistle, UT	10149500	107	c,t	1988-91
Spanish Fork near Lakeshore, UT	10152000	675	b,c,t	1971-83 1988
Hobble Creek near Springville, UT	10152500	105	c,t	1971-74
Maple Creek near Mapleton, UT	10152700	3.13	c,t	1971-72
Provo River near Kamas, UT	10153500	29.6	c,t	1972
North Fork Provo River near Kamas, UT	10153800	24.4	c,t	1971-91
Shingle Creek near Kamas, UT	10154000	a8.4	c,t	1971-73
North Fork Provo River at Wildwood, UT	10160800	12.3	c,t	1971-74
Dry Creek near Alpine, UT	10165500	9.82	c,t	1971 1980-81
Jordan River at Narrows near Lehi, UT	10167000	3,010	c,t	1987-91
Jordan River Station No. 1 at Narrows, UT	10167001	—	c,s,t	1980-83
East Jordan Canal at Little Cottonwood Creek near Sandy, UT	10167105	—	c	1980
East Jordan Canal at pumphouse at 6200 South near Murray, UT	10167115	—	c,s,t	1980-81
Upper Canal at 5800 South (Tolcate Lane) near Murray, UT	10167122	—	c,t	1980
Upper Canal at Wild Rose Lane, near Salt Lake City, UT	10167125	—	c,s,t	1980-81
Jordan & Salt Lake Canal at Little Cottonwood Creek near SLC, UT	10167141	—	c,t	1980-81
Jordan & Salt Lake Canal at Zenith Avenue near Salt Lake City, UT	10167149	—	c,s,t	1980
Jordan River at 9400 South near South Jordan, UT	10167200	3,130	c,s,t	1965-68
Bells Canyon Conduit 1000 East 110000 South	10167220	—	c,s,t	1981-82
Jordan River at 90th South near Midvale, UT	10167230	a3,130	c,s,t	1980-83 1986-89
90th South Conduit at Jordan River, near Midvale, UT	10167240	—	b,c,s,t	1980-82
Jordan River at 5800 South, near SLC, UT	10167300	3,254	b,c,s,t	1965-68 1974-83
Little Cottonwood Creek (channel) near SLC, UT	10167499	—	c,s,t	1979-88
Little Cottonwood Creek at 2050 East, near SLC, UT	10167700	35.2	c,t	1973-75 1980
Little Cottonwood Creek at Crestwood Park, at Salt Lake City, UT	10167800	—	c,t	1999-2000
Big Cottonwood Creek (Cottonwood Creek), near SLC, UT	10168500	50.0	c,s,t	1964-70
Big Cottonwood Creek at 5550 South, near SLC, UT	10168800	57.3	c,s,t	1964 1980-89
Neffs Creek above Wasatch Boulevard, near SLC, UT	10168832	—	c,s,t	1981
Big Cottonwood Creek at Jordan River, near SLC, UT	10169500	—	b,c,s,t	1980-81
Mill Creek near Salt Lake City, UT	10170000	21.7	b,c,s,t	1964-68 1979
Mill Creek at Jordan River, near SLC, UT	10170250	a32	b,c,st	1979-82
Jordan River at Salt Lake City, UT	10171000	3,438	b,c	1974-94
Parleys Creek at Suicide Rock, near SLC, UT	10171600	50.7	b,c,s,t	1964-68 1979-81
Emigration Creek near Salt Lake City, UT	10172000	18.4	b,c,s,t	1964-68 1980-81
Red Butte Creek at Ft. Douglas, near SLC, UT	10172200	7.25	b,c,s,t	1965-95
Red Butte Creek below reservoir, near SLC, UT	10172220	7.95	c,t	1980-81
1300 South Conduits at Jordan River, combined flows	10172350	—	b	1981
City Creek above Wasatch Drive, near SLC, UT	10172400	17.0	c,s,t	1964-68
Jordan River at 5th North at SLC, UT	10172550	—	b,c,s,t	1968-70 1975 1980-84
Jordan River at Cudahy Lane, near SLC, UT	10172600	q3,590	b,c,t	1963 1973-79
Goggin Drain near Magna, UT	10172630	—	c,t	1964-66 1972-84
Lee Creek near Magna, UT	10172640	—	c,t	1972-82
Kennecott Drain near Magna, UT	10172650	—	c,s,t	1962-66 1972-84

WATER RESOURCES DATA FOR UTAH, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DISCONTINUED SURFACE-WATER-QUALITY STATIONS

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
JORDAN RIVER BASIN—Continued				
Clover Creek above Big Hollow, near Clove, UT	10172765	6.71	c,t	1987-91
Settlement Creek above reservoir, near Tooele, UT	10172791	16.8	c,t	1988-91
North Willow Creek near Grantsville, UT	10172805	5.38	c,t	1979-92
GREAT SALT LAKE DESERT				
Trout Creek near Callao, UT	10172870	8.19	c,t	1971-91
Great Salt Lake West Pond near Wendover, UT	10172903	—	c,t	1988-90
West Locomotive Spring at Locomotive Spring, near Snowville, UT	10172963	—	c,t	1973-75
Baker Spring at Locomotive Spring, near Snowville, UT	10172964	—	c,t	1969-70
				1973-75
Bar M Spring at Locomotive Spring, near Snowville, UT	10172965	—	c,t	1969-70
				1973-80
Off Spring at Locomotive Spring, near Snowville, UT	10172967	—	c,t	1969-70
				1973-80
Sparks Spring at Locomotive Spring, near Snowville, UT	10172968	—	c,t	1969-70
				1973-80
SEVIER LAKE BASIN				
Midway Creek near Hatch, UT	10173600	25.7	c	1974
Sevier River at Hatch, UT	10174500	340	c,s,t	1985-92
Panguitch Creek near Panguitch, UT	10176300	97.0	c,t	1971-80
Sevier River near Circleville, UT	10180000	986	c,t	1971-91
East Fork Sevier River near Ruby's Inn, UT	10183900	71.6	c,t	1971-91
Antimony Creek near Antimony, UT	10185000	50.3	c,t	1971-76
Otter Creek near Koosharem, UT	10187300	23.5	c,t	1971-82
Otter Creek above Reservoir, near Antimony, UT	10187500	322	c,t	1971-80
Clear Creek at Sevier, UT	10195000	169	c,t	1988-89
Mill Creek near Glenwood, UT	10204200	18.9	c,t	1973
Sheep Creek near Salina, UT	10205100	0.30	c	1985
Salina Creek at Salina, UT	10206000	51.8	c,t	1971-91
Oak Creek near Fairview, UT	10208500	11.8	c,t	1971-89
Pleasant Creek near Mount Pleasant, UT	10210000	—	c,t	1971-75
San Pitch River near Sterling, UT	10216210	672	c,t	1971-80
Twelvemile Creek near Mayfield, UT	10216400	59.4	c,t	1971-80
Chicken Creek near Levan, UT	10219200	27.9	c,t	1971-94
Sevier River near Lynndyl, UT	10224000	5,966	b,c,t	1951-94
Oak Creek above Little Creek, near Oak City, UT	10224100	5.58	c,t	1971-83
				1987-91
Oak Creek below Big Spring, near Oak City, UT	10224300	17.8	c,t	1979-83
Chalk Creek near Fillmore, UT	10232500	58.7	c,t	1985
Meadow Creek near Meadow, UT	10233000	11.6	c,t	1944
				1971-75
				1985
Corn Creek near Kanosh, UT	10233500	—	c,t	1944
				1964
				1971-75
				1985
South Creek near Beaver, UT	10235000	14.7	c,t	1965
				1971-76
North Fork North Creek near Beaver, UT	10236000	14.1	c,t	1972-77
South Fork North Creek near Beaver, UT	10236500	23.0	c,t	1971-76
Indian Creek near Beaver, UT	10237500	18.5	c,t	1965
				1971-77
Indian Creek at Adamsville, UT	10238000	a180	c,t	1964

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
PAROWAN VALLEY				
Little Creek near Paragonah, UT	10241400	15.8	c,t	1971-80
Red Creek near Paragonah, UT	10241430	a6.3	c,t	1971-75
Center Creek above Parowan Creek, near Parowan, UT	10241470	11.6	c,t	1971-83
Summit Creek near Summit, UT	10241600	24.0	c,s,t	1971-83
SNAKE RIVER VALLEY				
George Creek near Yost, UT	13077700	7.84	c,t	1965-67 1972-90
Clear Creek near Naf, ID	13079000	20.2	c,t	1965-67

INTRODUCTION

Water-resources data for the 2002 water year for Utah consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 163 gaging stations; stage and contents for 10 lakes and reservoirs; water quality for 24 hydrologic stations, and 64 wells; water levels for 66 observation wells; and precipitation for 2 stations. 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 collected by the U.S. Geological Survey and cooperating State and Federal agencies in Utah.

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, 1969, 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 and Artesian Pressures 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 Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, Virginia, 22202.

For water years 1961 through 1974, streamflow data were released by the U.S. Geological Survey in annual reports on a 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 are 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 UT-02-1." For archiving and general distribution, the reports for water years 1971-74 are also identified as water-data reports. These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District office at the address given on the back of the title page or by telephone (801) 908-5000.

COOPERATION

The U.S. Geological Survey and organizations of the State of Utah have had cooperative agreements for the systematic collection of streamflow records since 1909, for ground-water levels since 1935, and for water-quality records since 1941. Organizations that assisted in collecting data through cooperative agreement with the U.S. Geological Survey are:

Department of Natural Resources, R.L. Morgan, Executive Director
 Division of Water Rights, J. Olds, State Engineer
 Division of Water Resources, D. L. Anderson, Director
 Bear River Commission, D. Hansen, Chairman
 Salt Lake County Flood Control, Brent Overson, Chairman
 Weber Basin Water Conservancy District, Ivan Flint
 Ogden River Water Users, Terel Grimley
 Weber River Water Users, Floyd Baham
 Central Utah Water Conservancy District, Don Christiansen
 Nephi City, Lee Fowkes
 Davis County Public Works, Dave Adamson
 Washington County Water Conservancy District, Ron Thompson
 Centerville City, Steve Thacher

Assistance in the form of funds was given by the Bureau of Reclamation, U.S. Department of the Interior, for collecting data at 17 gaging stations. Records for nine gaging stations in Idaho in the Bear River basin and eight in Utah were collected by Pacificorp under Federal Energy Regulatory Commission License.

Other district offices of the Geological Survey, Water Resources Division, obtained the records listed below:

Colorado District.	Colorado River near Colorado-Utah State line
	Green River near Jensen, UT
Wyoming District.	Bear River at Evanston, WY
	Blacks Fork near Robertson, WY
	Green River near Green River, WY

Records for all stream-gaging stations operated by the U.S. Geological Survey in the Bear River basin in Utah, Idaho, and Wyoming are included in this report.

Organizations that supplied data are acknowledged in station descriptions.

Summary of Hydrologic Conditions

By David V. Allen and Jeff Phillips

Hydrologic conditions for Utah can vary greatly across the State because of topography, geology, changing seasonal atmospheric conditions, and changes in climatic conditions from year to year. Mountain ranges and plateaus in many parts of Utah are characterized by steep slopes, sparse vegetation, thin soils, and, in areas such as the Colorado River Basin, large expanses of bedrock and steep-walled canyons. These conditions can lead to rapid runoff and flooding during much of the year. The large valleys and basins in the western part of Utah generally trend north, have a fairly flat topography, and are underlain with alluvial soils composed of clay, silt, sand, and gravel. Average annual precipitation in Utah ranges from about 5 inches in the Great Salt Lake Desert to about 60 inches on some of the State's highest mountains (Butler and Marsell, 1972). Precipitation in Utah results from three general atmospheric conditions: Pacific frontal systems (late fall through early spring), cutoff low-pressure systems (late spring and fall), and monsoonal thunderstorms (summer).

Frontal systems usually move west-to-east across Utah and account for much of the mountain snowpack (U.S. Geological Survey, 1991). These systems can affect all or part of the State, depending on the prevailing jet stream (high-altitude winds). Before reaching Utah, Pacific frontal storms must first cross the Sierra and Cascade mountain ranges, where a large part of the original precipitation falls as rain and snow. Therefore, the storms are relatively dry upon reaching Utah, resulting in comparatively light precipitation over most of the State (Utah Climate Center, 2003). During some winters, a high-pressure ridge is dominant over the Western United States, and the jet stream is forced north or south of Utah, resulting in winter drought. When conducive, weather systems moving across Great Salt Lake acquire additional moisture from evaporation of lake water, enhancing precipitation in the local area. This is the so-called "lake effect."

Cutoff low-pressure systems generally originate in the Pacific Ocean, are widespread and slow moving, and can produce large amounts of precipitation over an extended time (U.S. Geological Survey, 1991). These are typically dissipating tropical cyclones, including tropical storms and hurricanes. One such storm in late-September 1982 resulted in a monthly record 7.04 inches of rain at Salt Lake City and 13.47 inches of precipitation (including 45 inches of snow) in the nearby mountains, at Alta. Monsoonal thunderstorms frequently occur during the summer months, June through August, when high temperatures and heating of the Earth's surface produce strong thermals. Subtropical moisture originating in the Gulf of Mexico and Gulf of California can combine with these thermals and produce locally intense thunderstorms.

Precipitation

Water year 2002 was the third consecutive year of below-normal precipitation statewide and caused severe to extreme drought conditions throughout the State. Precipitation in Utah during the 2002 water year was less than normal¹(1961-90) at 12 selected precipitation-recording stations operated by the National Oceanic and Atmospheric Administration (National Oceanic and Atmospheric Administration, 2001 and 2002a) in Utah (fig. 1). The 12 stations were selected to be representative of the areal, spatial, and topographic distribution of precipitation for the entire State (table 1). The average annual departure from normal precipitation for 12 stations in water year 2002 was -4.88 inches: the average departures for all stations in water years 2000 and 2001 were -4.23 inches and -2.11 inches, respectively (Herbert, and others, 2001 and 2002). During water year 2002, 8 of the 12 precipitation-recording stations recorded less than 5 inches of precipitation, although 5 of them had as much as 5 months of missing data (table 1). Of the stations with complete water year 2002 data, Callao recorded the least annual total precipitation (2.57 inches).

During water year 2002, 10 of the 12 months were generally drier than normal statewide, with the only positive monthly departures-from-normal recorded in November and September (table 1). December through August was the longest continuous period of less-than-normal precipitation, averaging -7.18 inches departure from normal. The general lack of precipitation during December through March drastically reduced snowpack and the amount of water available for spring runoff. Less-than-normal precipitation during April through August, in conjunction with warmer-than-normal temperatures, contributed to many range fires statewide. At Salt Lake City, July was the hottest month ever recorded, and August was the third driest, since records began in 1874 (National Oceanic and Atmospheric Administration, 2002b).

Streamflow, Flooding, and Reservoir Storage

As a result of below-average precipitation and snowpack in much of the Utah and Rocky Mountain region, streamflow conditions in most major rivers in Utah have been below normal for the past 3 to 4 years. This section presents data from eight long-term streamflow-gaging stations that are maintained by the U.S. Geological Survey Utah District as part of a national streamflow-gaging station network (fig. 2). The stations were selected from a local network of more than 150 stations in Utah, Wyoming, and Idaho (fig. 1) and are considered index stations because they generally reflect streamflow conditions in their local

¹National Oceanic and Atmospheric Administration defines normal as the average value of a meteorological element.

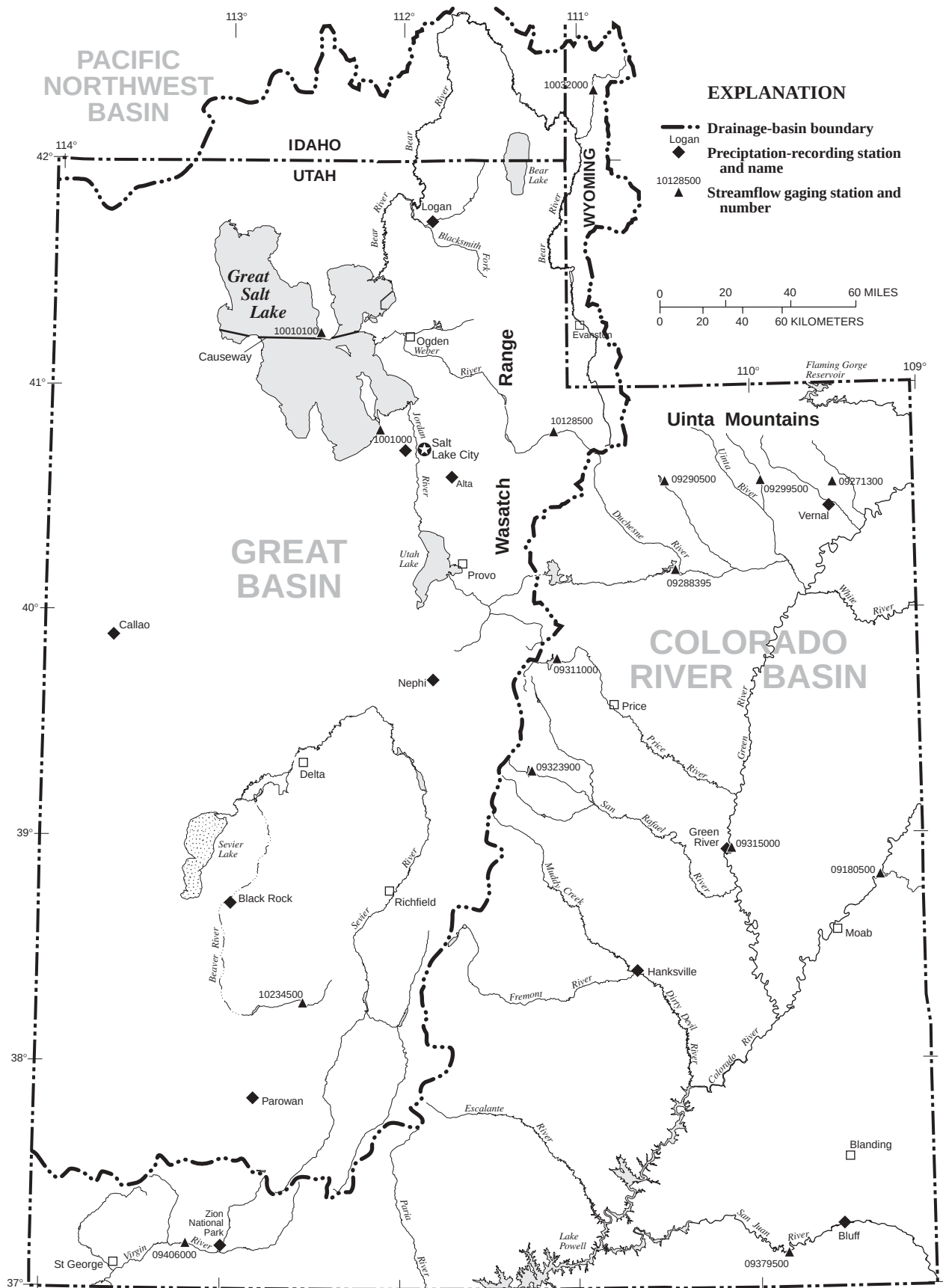


Figure 1. Selected precipitation-recording stations and U.S. Geological Survey streamflow-gaging stations in Utah.

Table 1. Precipitation and departure from normal precipitation at selected sites for water year 2002

[In inches; upper number indicates precipitation; lower number (in parentheses) indicates precipitation departure from 1961-90 normal precipitation; ND, no data; —, no departure calculated]

Site	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total departure
Alta	ND (—)	6.66 (0.96)	4.07 (-2.83)	2.33 (-4.66)	2.71 (-3.72)	6.31 (-0.45)	1.80 (-4.28)	2.12 (-1.27)	0.47 (-1.36)	1.06 (-0.56)	0.27 (-1.52)	5.45 (2.84)	33.25 (-16.85)
Black Rock	0.03 (-0.75)	0.78 (0.01)	0.74 (0.15)	0.20 (-0.30)	0.00 (-0.48)	0.40 (-0.72)	1.12 (0.14)	0.00 (-0.78)	0.00 (-0.54)	0.60 (-0.26)	0.14 (-0.69)	0.65 (-0.21)	4.66 (-4.43)
Bluff	0.03 (-1.03)	0.45 (-0.32)	0.59 (-0.16)	0.10 (-0.61)	0.00 (-0.67)	0.21 (-0.46)	0.00 (-0.48)	0.02 (-0.39)	0.00 (-0.23)	0.07 (-0.85)	0.31 (-0.52)	2.27 (1.54)	4.05 (-4.18)
Callao	0.01 (-0.65)	0.27 (-0.07)	0.22 (-0.06)	0.29 (0.0)	0.21 (-0.12)	0.02 (-0.39)	0.51 (0.04)	0.15 (-0.66)	0.11 (-0.62)	0.20 (-0.33)	0.00 (-0.66)	0.58 (-0.02)	2.57 (-3.54)
Green River	0.49 (-0.40)	ND (—)	0.21 (-0.20)	0.08 (-0.32)	0.06 (-0.26)	0.03 (-0.56)	0.09 (-0.41)	ND (—)	ND (—)	0.18 (-0.39)	0.09 (-0.66)	3.07 (2.28)	4.30 (-0.92)
Hanksville	0.04 (-0.64)	0.64 (0.23)	0.27 (-0.04)	0.15 (-0.23)	0.03 (-0.22)	0.01 (-0.50)	0.07 (-0.35)	0.02 (-0.47)	0.07 (-0.23)	0.50 (-0.04)	0.56 (-0.17)	1.77 (1.03)	4.13 (-1.63)
Logan	1.13 (-0.74)	ND (—)	2.00 (0.28)	ND (—)	ND (—)	1.40 (-0.62)	2.54 (0.39)	ND (—)	ND (—)	0.21 (-0.57)	0.05 (-0.92)	2.75 (1.13)	10.08 (-1.05)
Nephi	0.81 (-0.45)	2.04 (0.65)	1.20 (-0.13)	0.30 (-0.89)	0.47 (-0.72)	1.42 (-0.29)	1.72 (0.21)	0.27 (-1.11)	0.16 (-0.69)	0.16 (-0.68)	0.00 (-1.01)	1.54 (0.36)	10.09 (-4.75)
Parowan	0.23 (-0.80)	0.79 (-0.34)	1.10 (0.17)	0.01 (-0.80)	0.24 (-0.85)	0.55 (-1.02)	0.42 (-0.94)	0.09 (-0.74)	ND (—)	ND (—)	ND (—)	ND (—)	3.43 (-5.32)
Salt Lake City	0.92 (-0.52)	3.34 (2.05)	1.44 (0.04)	1.19 (0.08)	0.30 (-0.93)	2.47 (0.56)	2.49 (0.37)	0.48 (-1.32)	0.18 (-0.75)	0.14 (-0.67)	0.03 (-0.83)	1.12 (-0.16)	14.10 (-2.08)
Vernal	0.87 (-0.19)	0.26 (-0.34)	ND (—)	0.00 (-0.42)	0.00 (-0.41)	0.57 (-0.08)	0.00 (-0.81)	0.00 (-0.88)	0.00 (-0.79)	0.40 (-0.10)	0.00 (-0.58)	2.26 (1.39)	4.36 (-3.21)
Zion National Park	0.09 (-0.83)	0.77 (-0.69)	1.17 (-0.11)	0.07 (-1.52)	0.08 (-1.52)	0.56 (-1.49)	0.27 (-0.88)	0.00 (-0.84)	0.00 (-0.48)	0.06 (-1.19)	0.01 (-1.78)	1.76 (0.76)	4.84 (-10.57)
Total departure	-7.00	2.14	-2.89	-9.67	-9.90	-6.02	-7.00	-8.46	-5.69	-5.64	-9.34	10.94	

area. Major dams have regulated flow on the Colorado, Green, and San Juan Rivers upstream from the index sites since the early 1960s. The Beaver, Virgin, and Weber Rivers are slightly regulated by small headwater reservoirs or power-generating facilities. Smiths Fork and the Whiterocks River have small diversions in upper watershed areas but are not regulated upstream from the stations. Despite these modifications to the drainages, these index sites generally reflect hydrologic conditions in their respective watersheds, including snowpack and the amount of water stored in reservoirs.

Daily mean discharge for 2002 in relation to the average, minimum, and maximum daily mean discharge for 1945-2001 for the eight index stations is shown in figure 2. Below-average runoff during the spring of 2002 is shown in the hydrographs for all stations. The most significant lack of spring runoff is evident in the hydrograph for Virgin River near Virgin, where there is essentially no indication of an increase in flow that normally results from snowmelt during this time of year. The stations at Virgin River at Virgin, Colorado River near Cisco, and San Juan River near Bluff had the lowest total annual discharge volumes on record during water year 2002 (table 2). For two stations, Whiterocks River near Whiterocks and Green River near Green River, the total annual discharge volumes for water year 2002 ranked as the second lowest total on record, and Beaver River near Beaver had the third lowest. The drought in 2002 was not as severe for Smiths Fork near Border and Weber River near Oakley; however, water year 2002 was still one of the 10 driest years on record (table 2).

The compounded effects of 3 years of below-normal precipitation decreased the contents of most major reservoirs in Utah during water year 2002. Combined reservoir contents on September 30, 2002, at 15 selected reservoirs in Utah averaged 47.1 percent of the long-term (1961-90) average-usable-contents¹, a significant decrease from 70 percent for water year 2001 and the least since water year 1992 (20 percent). Contents at the end of water year 2002 were less than the long-term average for all 15 reservoirs. The reservoirs with the lowest percent capacity include Steinaker (9.2 percent), Piute (13.5 percent), Otter Creek (24.0 percent), and Scofield (26.3 percent).

¹Long-term averages provided by National Oceanic and Atmospheric Administration. Averages for East Canyon (1966-90), Joes Valley (1996-90), Starvation (1970-90), and Steinaker (1975-90). Reservoirs are calculated on the basis of the water years shown in parentheses.

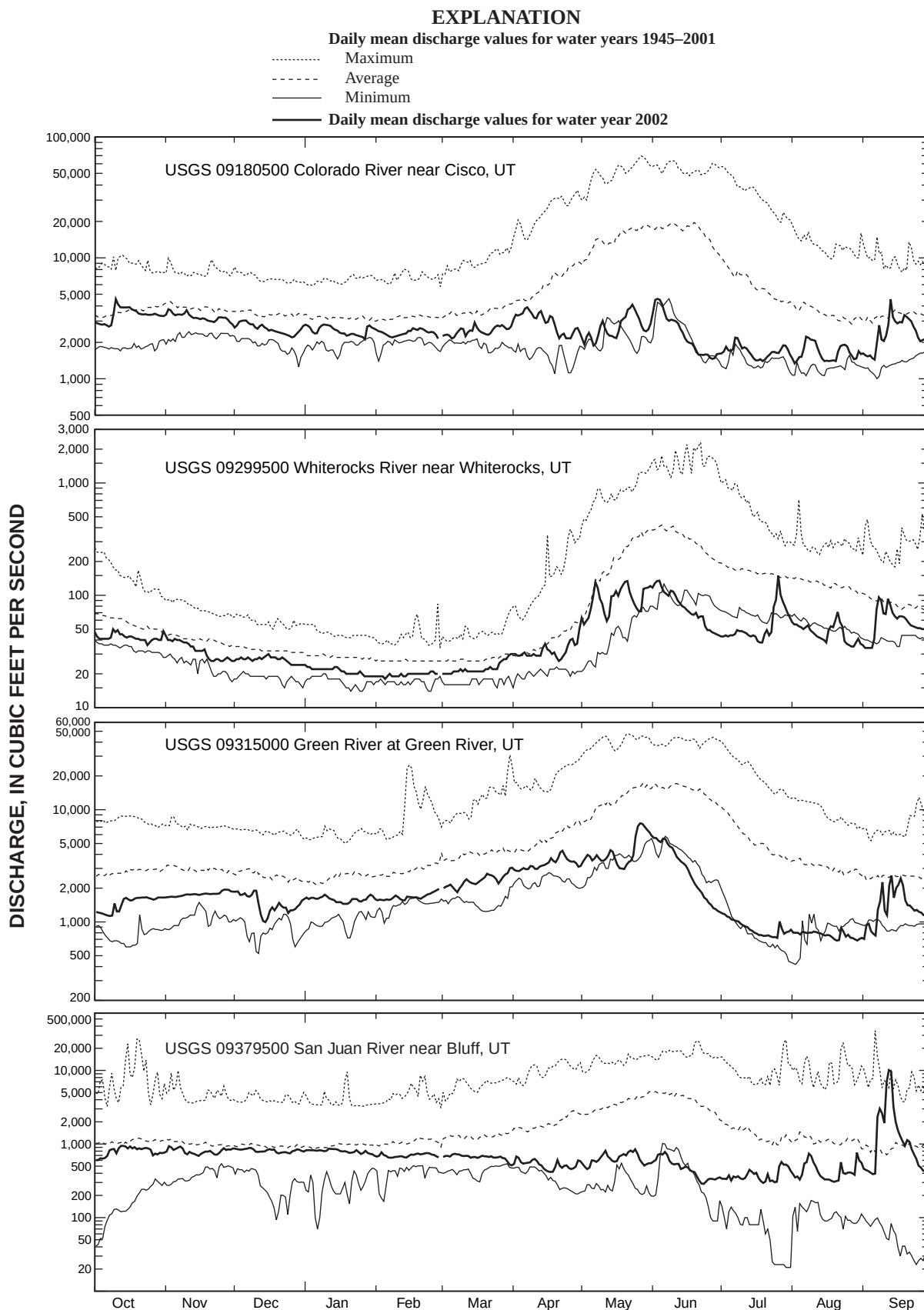


Figure 2. Daily mean discharge for water year 2002 with maximum, average, and minimum daily mean discharges for water years 1945–2001 at eight long-term U.S. Geological Survey streamflow-gaging stations, Utah and Wyoming.

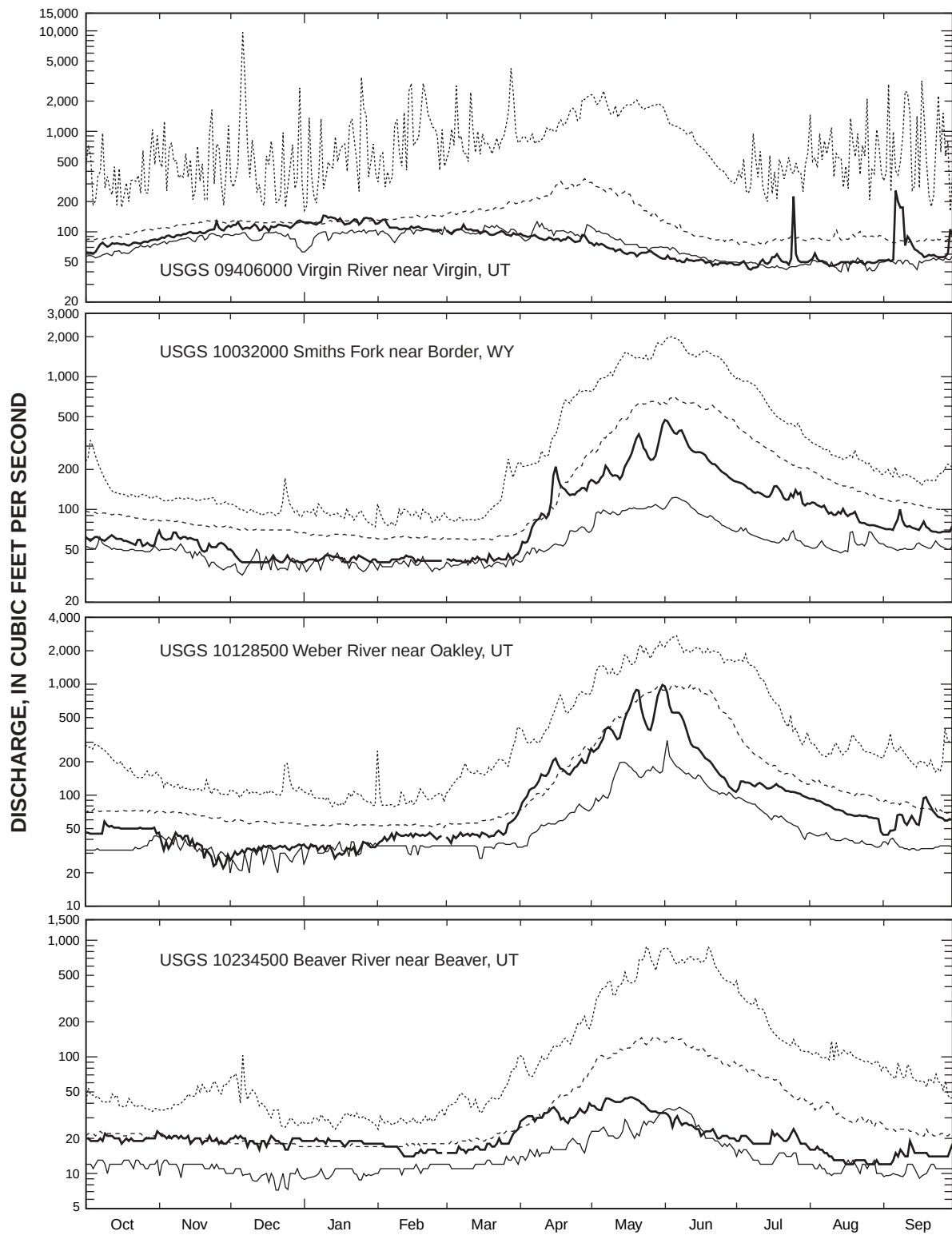


Figure 2. Daily mean discharge for water year 2002 with maximum, average, and minimum daily mean discharges for water years 1945-2001 at eight long-term U.S. Geological Survey streamflow-gaging stations, Utah and Wyoming—Continued

Table 2. Streamflow data for eight long-term U.S. Geological Survey streamflow-gaging stations used as representative index sites in Utah and Wyoming, 1999-2002
[kac-ft, thousands of acre-feet]

Site ID	Station Name	Period of record	Average total annual flow for period of record (kac-ft)	1999		2000		2001		2002		Rank of lowest total annual flow
				Total annual flow (kac-ft)	Percent of normal	Total annual flow (kac-ft)	Percent of normal	Total annual flow (kac-ft)	Percent of normal	Total annual flow (kac-ft)	Percent of normal	
09180500	Colorado River near Cisco, UT	1914-2002	5,297	4,807	90	3,856	72	3,003	56	1,856	35	1
09299500	Whiterocks River near Whiterocks, UT	1930-2002	81.90	115.7	140	61.68	75	87.33	106	32.84	40	2
09315000	Green River near Green River, UT	1906-2002	4,463	5,392	120	3,206	71	2,464	55	1,591	36	2
09379500	San Juan River near Bluff, UT	1915-17, 1927-2002	1,638	1,837	111	838.1	51	1,161	70	538.2	33	1
09406000	Virgin River near Virgin, UT	1910-2002	144.0	101.7	70	90.53	62	99.63	69	61.24	43	1
10032000	Smiths Fork near Border, WY	1943-2002	139.5	179.2	127	107.1	76	72.12	51	74.26	53	4
10128500	Weber River near Oakley, UT	1905-2002	158.5	184.1	116	109.1	69	100.3	63	93.67	59	8
10234500	Beaver River near Beaver, UT	1915-2002	37.68	36.86	97	24.71	65	29.07	77	15.55	41	3

Utah Lake, Starvation Reservoir, Echo Reservoir, and East Canyon Reservoir had the highest percent capacity at 66.7 percent, 69.5 percent, 78.3 percent, and 80.7 percent, respectively. Storage in Bear Lake, located in northern Utah, was 357,610 acre-feet on September 30, 2002, down 238,090 acre-feet from this date in the 2001 water year, and down 908,390 acre-feet compared to storage on this date in 1998. This is the lowest volume in Bear Lake for this date since 267,820 acre-feet during the 1994 water year.

Unregulated inflow to Lake Powell during water year 2002 was only 3.06 million acre-feet, or 25 percent of the 30-year average, and is the least inflow to Lake Powell since the completion of Glen Canyon Dam in 1963 (U.S. Bureau of Reclamation, 2002, and fig. 3). The Colorado, Green, and San Juan Rivers are the major inflows to Lake Powell, and peak runoff typically occurs during May and June from snowmelt in the mountain headwaters. Essentially no spring peak runoff for the Colorado River or San Juan River occurred during 2002. Summer base-flow conditions also declined steadily. As a result of record low inflows, Lake Powell was filled to about 14,111,000 acre-feet, or about 58 percent of capacity as of November 30, 2002.

For water year 2002, the south part of Great Salt Lake (U.S. Geological Survey gage 10010000) reached a maximum daily mean elevation of 4,199.9 feet above sea level on May 7, 2002 (fig. 4), which was 1.8 feet lower than the peak elevation for the previous water year. Fluctuations in the level of Great Salt Lake occur because of changes in the rates of fresh-water inflow, movement of water through the Southern Pacific Railroad causeway, and evaporation. Great Salt Lake normally reaches its peak elevation between late April and early June, and its lowest elevation normally occurs between late September and early

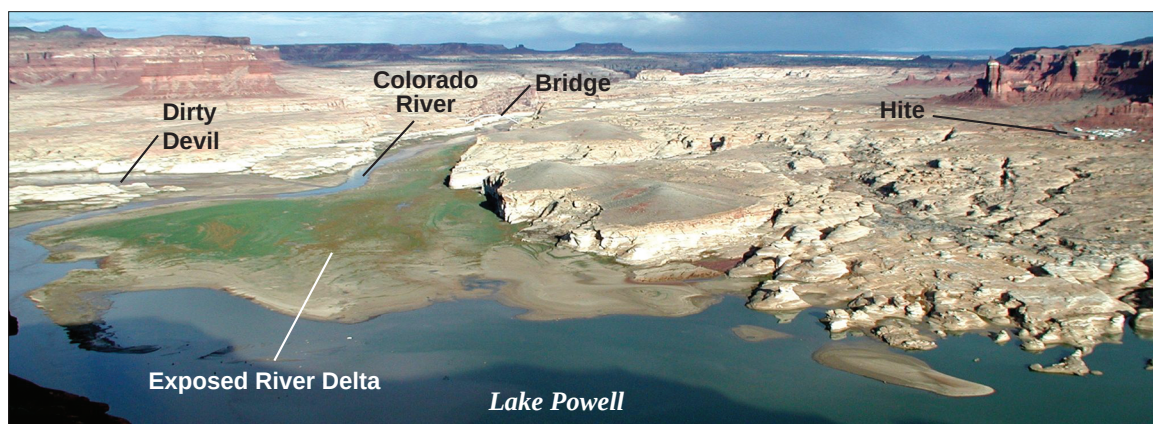


Figure 3. Lake Powell near Hite Marina, Utah, showing exposed channel of the Colorado and Dirty Devil Rivers, which are normally flooded by the lake, as well as the deltaic sediments that are deposited at the upper end of the lake. Photograph taken in October 2002.

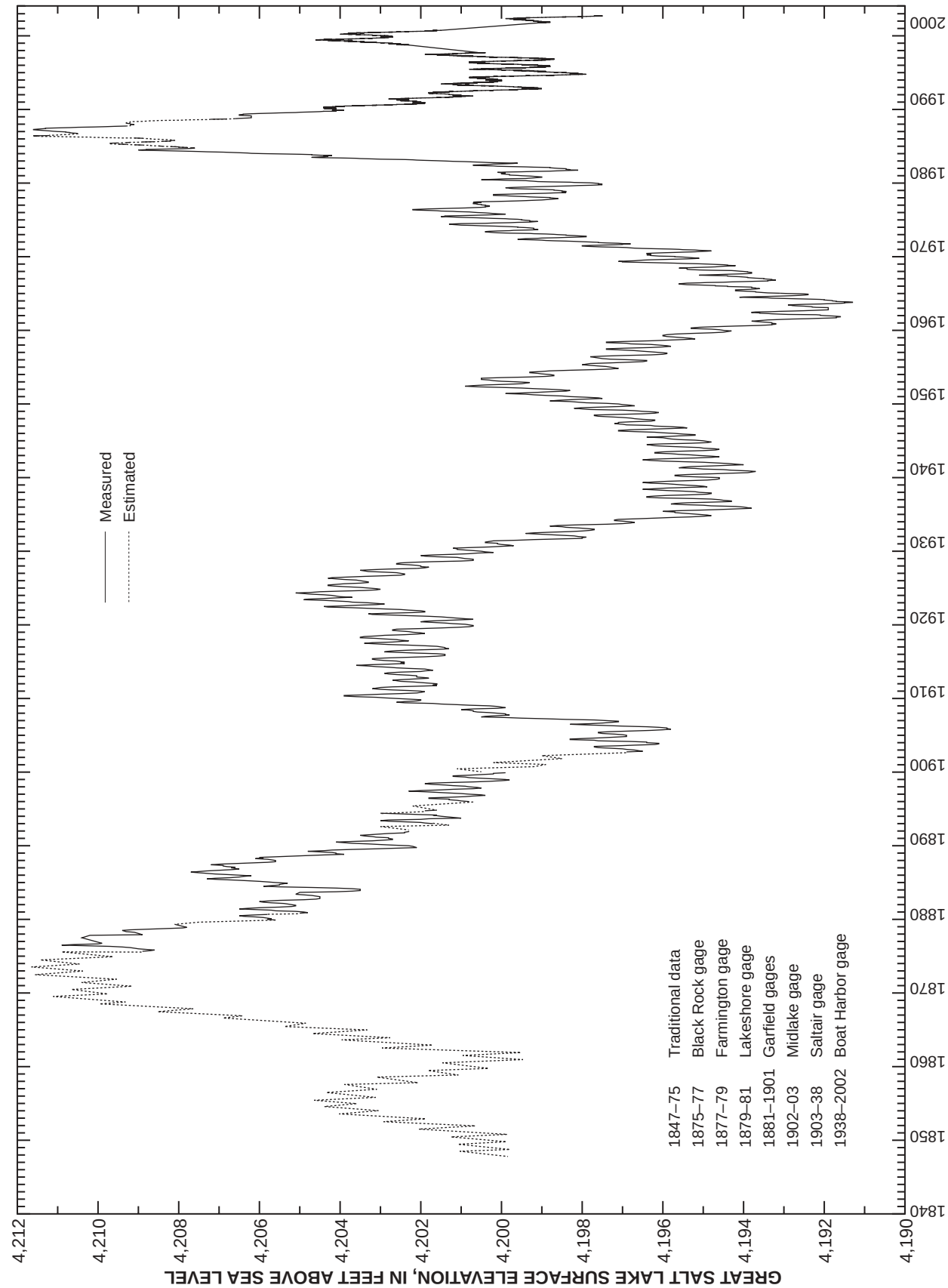


Figure 4. Fluctuations in elevation of Great Salt Lake, 1847-2002.

December. The minimum daily mean elevation for water year 2002 was an estimated 4,197.5 feet above sea level on several days in September. This was the lowest elevation of Great Salt Lake since October 1994 and was 1.6 feet lower than the minimum for water year 2001. The elevation of the north part of Great Salt Lake (U.S. Geological Survey gage 10010100) ranged from a maximum of 4,199.3 feet above sea level during several days in May, to a minimum of 4,197.1 feet above sea level during several days in late September. Salinity of the north arm ranged from a minimum of 27.1 percent on November 7, 2001, to a maximum of 28.8 percent on August 14, 2002, and averaged 27.5 percent (five observations), an increase from 25.8 percent the previous water year. Salinity of the south part of Great Salt Lake was 12.2 percent on May 14, 2002. The salinity of sea water is approximately 3.5 percent.

Ground Water

Prolonged droughts have a primary and secondary effect on ground-water resources. First, decreased precipitation leads to decreased recharge to aquifers. Second, decreased surface-water resources generally lead to increased ground-water withdrawals, as well as to increased requests for water-well construction permits (Gates and Allen, 1996). Five wells were selected to show trends in ground-water levels for water years 1993-2002. The wells are located in Pahvant Valley, Beryl-Enterprise area, East Shore area near Ogden, and the Vernal and Blanding areas (fig. 5).

Water-level hydrographs for water years 1993-2002 (fig. 6) show that statewide water-level trends generally continue to decline. Compared to September 30, 2001, the end-of-water-year 2002 water levels generally declined about 1.3 feet in well (B-6-2)26ada-1 (near Ogden), about 2.2 feet in well (D-3-20)25abc-2 (near Vernal), about 2.4 feet in well (D-36-22)22daa-1 (Blanding), about 5.3 feet in well (C-36-16)29daa-1 (near Beryl Junction). The largest water-level decline was more than 9.2 feet in well (C-21-5)21aba-1 (Pahvant Valley). New record low water levels were recorded in three of the five wells in water year 2002. The four wells were (B-6-2)26ada-1 (23.08 feet below land surface), well (C-36-16)29daa-1 (211.44 feet below land surface) and well (D-3-20)25abc-2 (8.88 feet below land surface). The water levels have been measured at the five wells for an average of almost 45 years, from a minimum of 13 years for well (C-36-16)29daa-1, to a maximum of 73 years for well (C-21-5)21aba-1.

Estimated total ground-water withdrawals in Utah in 2001 were 883,000 acre-feet compared to 926,000 acre-feet in 2000 (Burden and others, 2002). Withdrawals for public supply increased from 287,000 acre-feet in 2000 to 292,000 acre-feet in 2001, while withdrawals for irrigation decreased from 511,000 acre-feet in 2000 to 453,000 acre-feet in 2001. Despite decreased ground-water withdrawals in 2001, water levels in wells measured in the spring of 2002 in many areas of the State were at or near record lows due to continued drought and decreased recharge to ground-water reservoirs.

Chemical Quality of Streamflows

Water-quality data were collected at 30 stations in Utah and Wyoming during water year 2002 (fig. 7). Samples were collected as part of the National Stream Quality Accounting Network (NASQAN) at three of the stations; at four of the stations, samples were collected as part of the National Water-Quality Assessment (NAWQA) Program.

At 15 of the 30 surface-water stations, water-quality samples were collected during August and September as part of an effort to assess low-flow water-quality conditions during the current drought. In general, quality of water can be substantially diminished during droughts. Most major streams in Utah are either regulated by dams or partially diverted for irrigation and drinking-water use. When water is returned to the natural stream channel from irrigation ditches or wastewater treatment plants, it generally is of a lower quality (Gerner, S.J., U.S. Geological Survey, written commun., 2003). Agricultural returns can contain increased contaminants from naturally occurring minerals in soils such as selenium. Water from wastewater treatment plants typically contains higher levels of nutrients, and possibly bacterial contamination. During high-to-normal flow conditions, these contaminants generally are diluted to safe drinking-water levels. During low-flow conditions, however, the concentration of these contaminants typically increases, and can exceed water-quality standards (Gerner, S.J., U.S. Geological Survey, written commun., 2003).

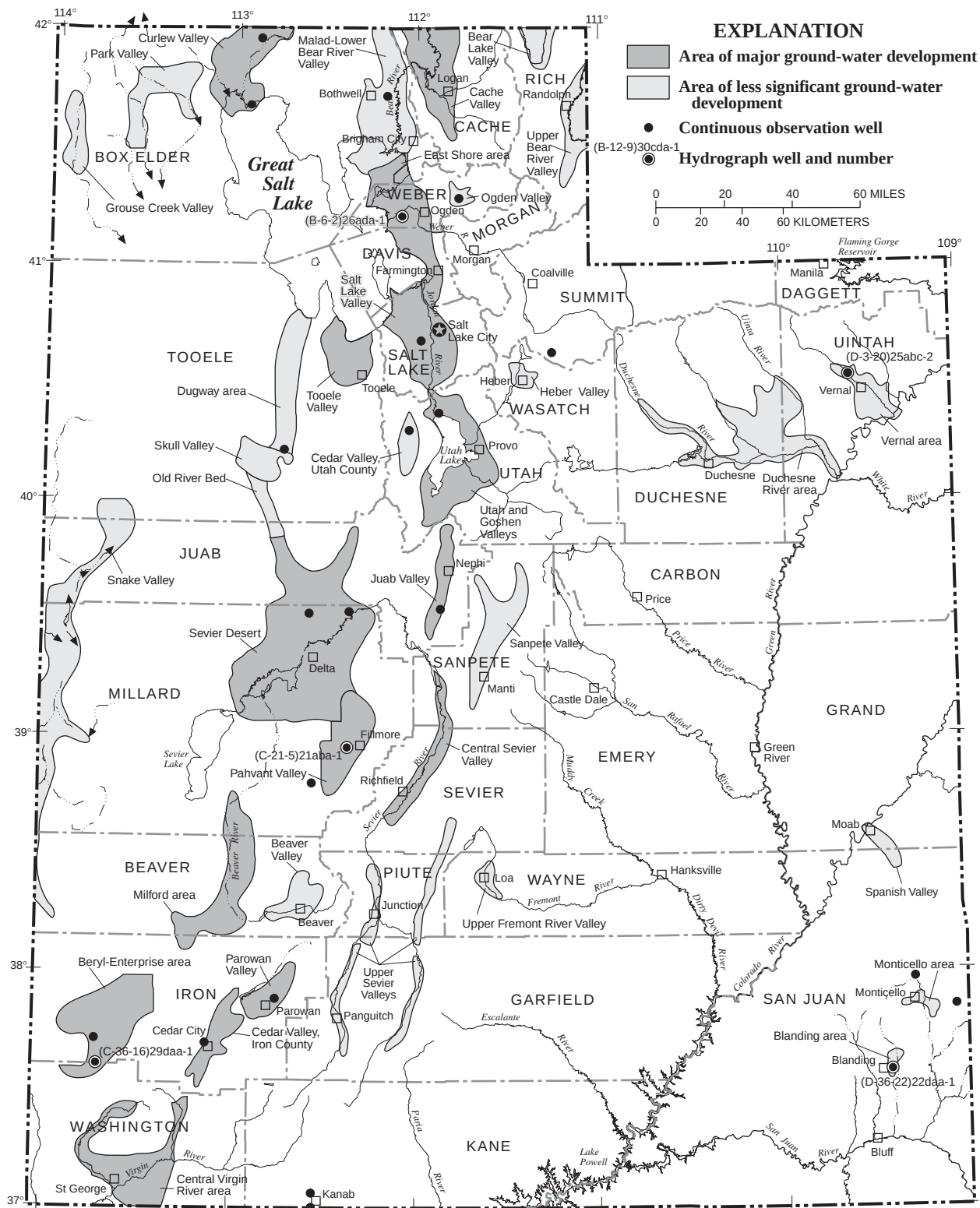


Figure 5. Areas of ground-water development and location of selected observation wells in Utah.

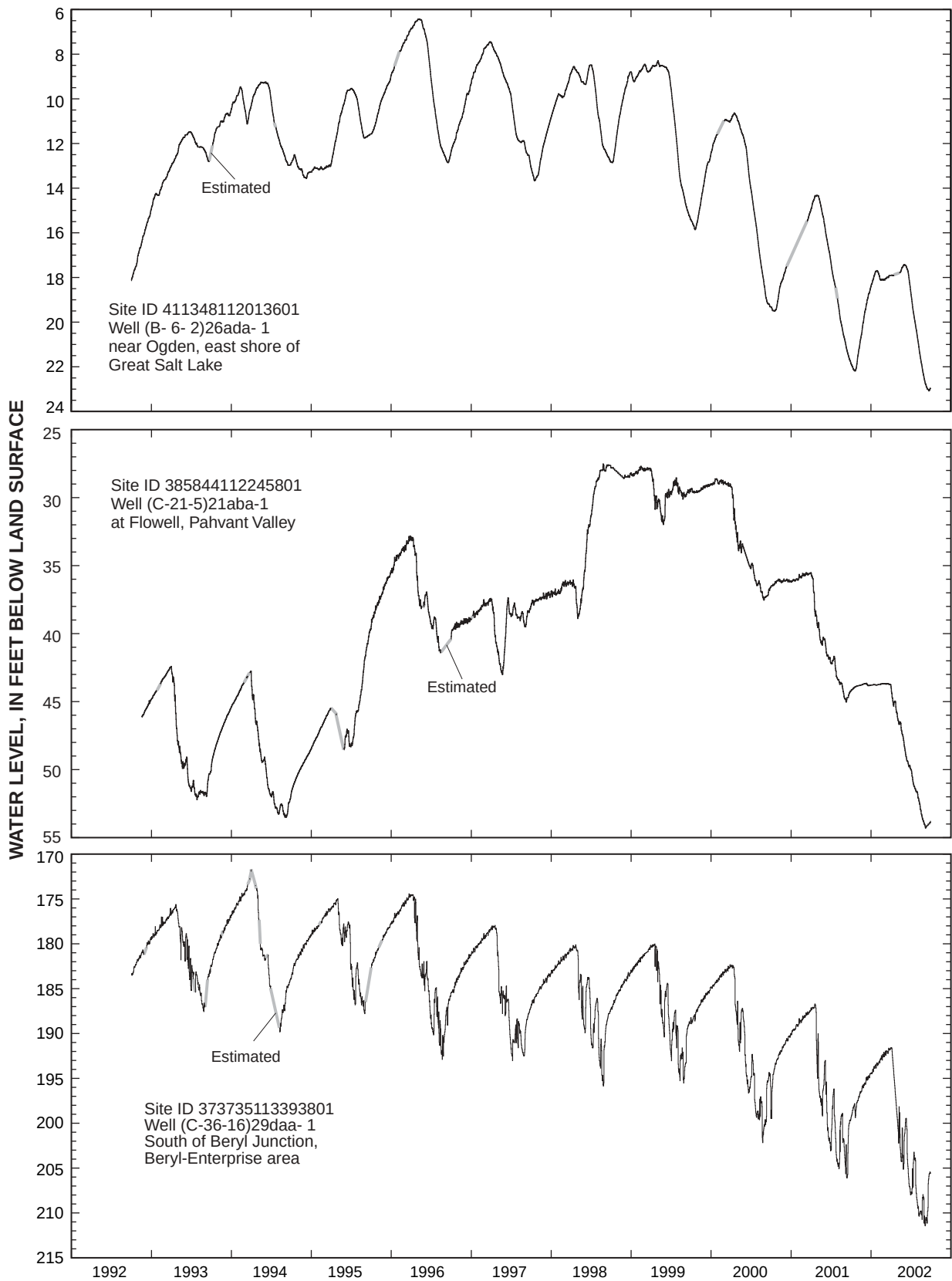


Figure 6. Water-level fluctuations in selected wells in Utah for water years 1993-2002.

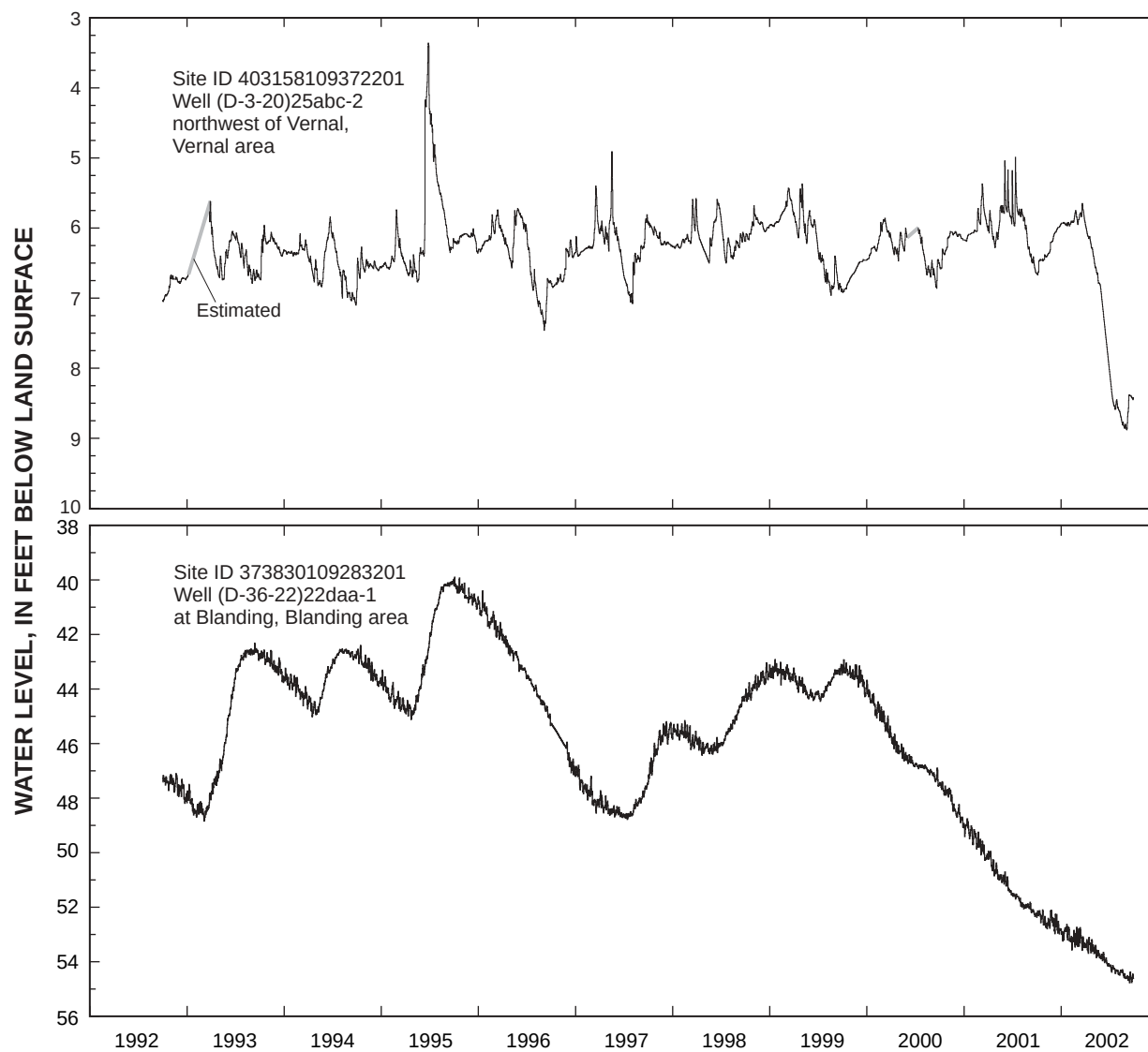


Figure 6. Water-level fluctuations in selected wells in Utah for water years 1993-2002—Continued

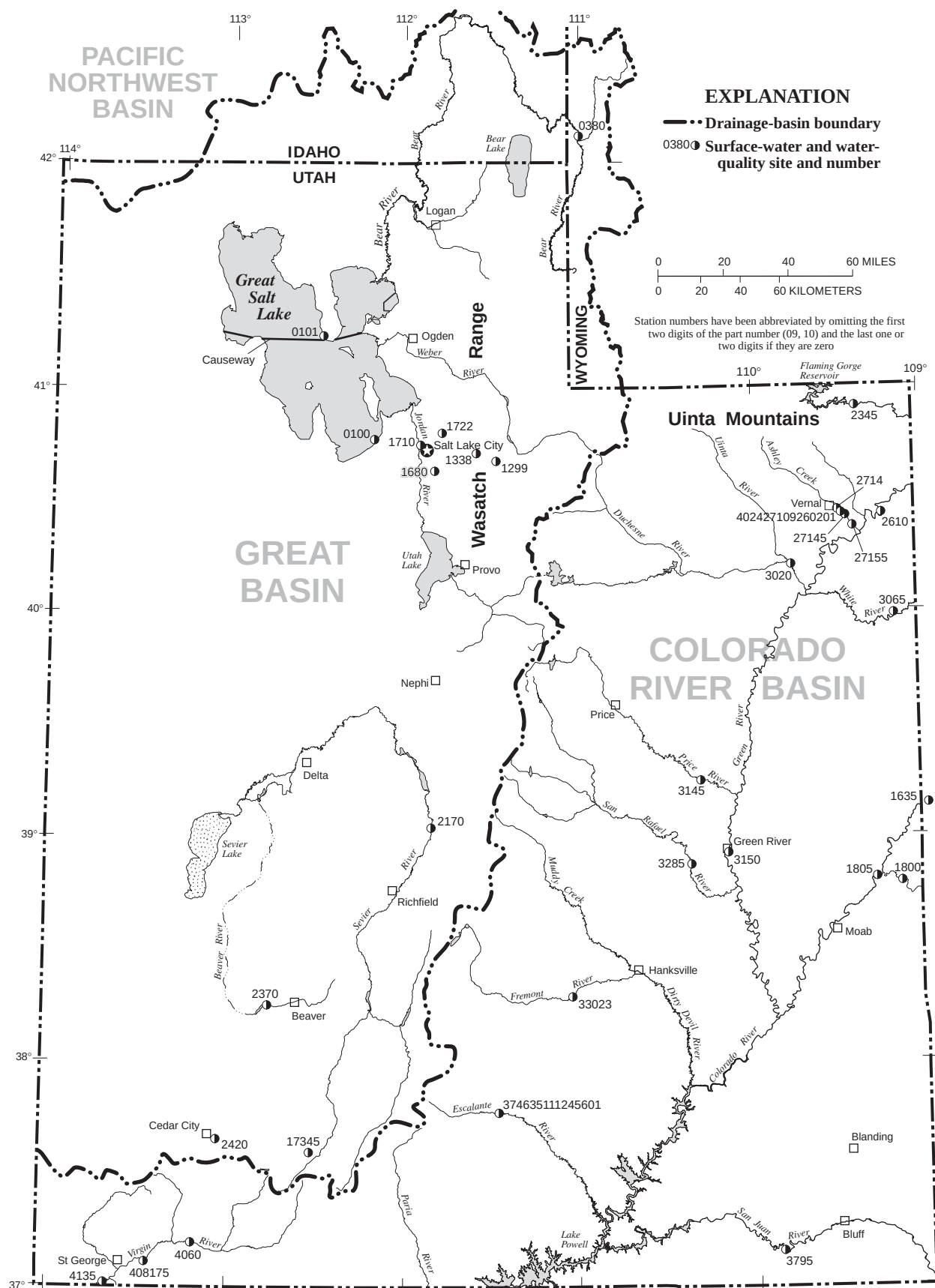


Figure 7. Location of surface-water sites at which water-quality data were collected in water year 2002.

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DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Definitions of common terms such as algae, water level, and precipitation are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting inch/pound 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, ac-ft, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Bottom material (See "Bed material")

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

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

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

$$\text{sphere } \frac{4}{3}\pi r^3$$

$$\text{cone } \frac{1}{3}\pi r^2 h$$

$$\text{cylinder } \pi r^2 h.$$

pi (π) is the ratio of the circumference to the diameter of a circle; $\pi = 3.14159\dots$

From cell volume, total algal biomass expressed as biovolume (mm^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 for all species.

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

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

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

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

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

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

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable 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 that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

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

Cubic foot per second (CFS, ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-foot" sometimes is used synonymously with "cubic foot per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, cfs-day, [(ft³/s)/d]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 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, (ft³/s)/mi²] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Horizontal datum (See “Datum”)

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

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

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

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

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

Laboratory reporting level (LRL) is generally equal to twice the yearly determined long-term method detection level (LTMDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a “less than” (<) remark code for samples in which the analyte was not

detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. [Note: In several previous NWQL documents (NWQL Technical Memorandum 98.07, 1998), the LRL was called the nondetection value or NDV—a term that is no longer used.]

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

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

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

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

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

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

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

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

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

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

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

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

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, $\mu\text{g/g}$) 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, $\mu\text{g/kg}$) 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, $\mu\text{g/L}$) 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, $\mu\text{S/cm}$) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through 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 [$\text{mg C}/(\text{m}^2/\text{time})$] for periphyton and macrophytes or per volume [$\text{mg C}/(\text{m}^3/\text{time})$] for phytoplankton. The carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon- ^{14}). The carbon- ^{14} method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use with unenriched water samples. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

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

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

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

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

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

the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

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

Return period (See "Recurrence interval")

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

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

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

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

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

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

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

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

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

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

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

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

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 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) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific water, to evaluate mixing of different water, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

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

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

Substrate is the physical surface upon which an organism lives.

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

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

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

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

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

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

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

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

Suspended-sediment discharge (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft³/s) x 0.0027. (See also “Sediment,” “Suspended sediment,” and “Suspended-sediment concentration”)

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

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in

the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

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

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

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

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a 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

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

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

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

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

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

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

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warmblooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35°C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C plus or minus 1.0°C on M-Endo

medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample. (See also "Bacteria")

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

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

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

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

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

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

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

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

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

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

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

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

Vertical datum (See "Datum")

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

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

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

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

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

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

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

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

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

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

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 main-stream station are listed before that station. A station on a tributary entering between two main-stream stations is listed between. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indentation in a list of stations in the front of the 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.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station number, 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 consecutive. The complete 8-digit number for each station such as 09004100, which appears just to the left of the station name, includes a 2-digit part number "09" plus the 6-digit downstream order number "041010."

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

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

The well and miscellaneous site number 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 seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, assign sequential numbers "01," "02," etc. as one would for wells. See figure 7.

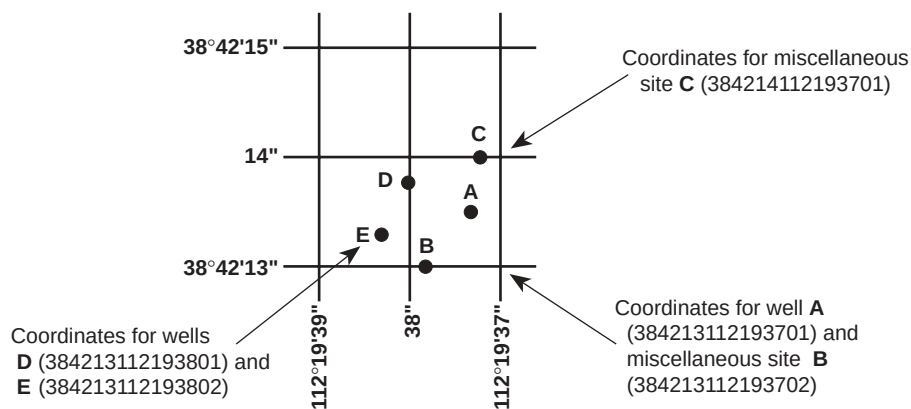


Figure 8. System for numbering wells and miscellaneous sites (latitude and longitude).

In addition to the well number that is based on latitude and longitude given for each well, another well number is given that is based on the U.S. Bureau of Land Management's system of land subdivision. This well number is familiar to the water users of Utah and shows the location of the well by quadrant, township, range section, and position within the section. See figure 8. The capital letter at the beginning of the location number indicates the quadrant in which the well is located. Four quadrants are formed by the intersection of the base line and the principal meridian—A indicates the northeast quadrant, B the northwest, C the southwest, and D the southeast. The first numeral indicates the township, the second the range, and the third the section in which the well is located. Lowercase letters following the section number locate the well within the section. The first letter denotes the quarter section, the second the quarter-quarter section, and the third the quarter-quarter-quarter section. The letters are assigned within the section in a counter-clockwise direction beginning with (a) in the northeast quarter of the section. Letters are assigned within each quarter section and quarter-quarter section in the same manner. Where two or more locations are within the smallest subdivision, consecutive numbers beginning with 1 are added to the letters in the order in which the wells are inventoried. For example, (C-28-10)29add-1 indicates a well in the southeast quarter of the southeast quarter of the northeast quarter of sec. 29, T. 28 S., R.10 W., and shows that this is the first well inventoried in the quarter-quarter-quarter section. The capital letter C indicates that the township is south of the Salt Lake Base Line and that the range is west of the Salt Lake Meridian.

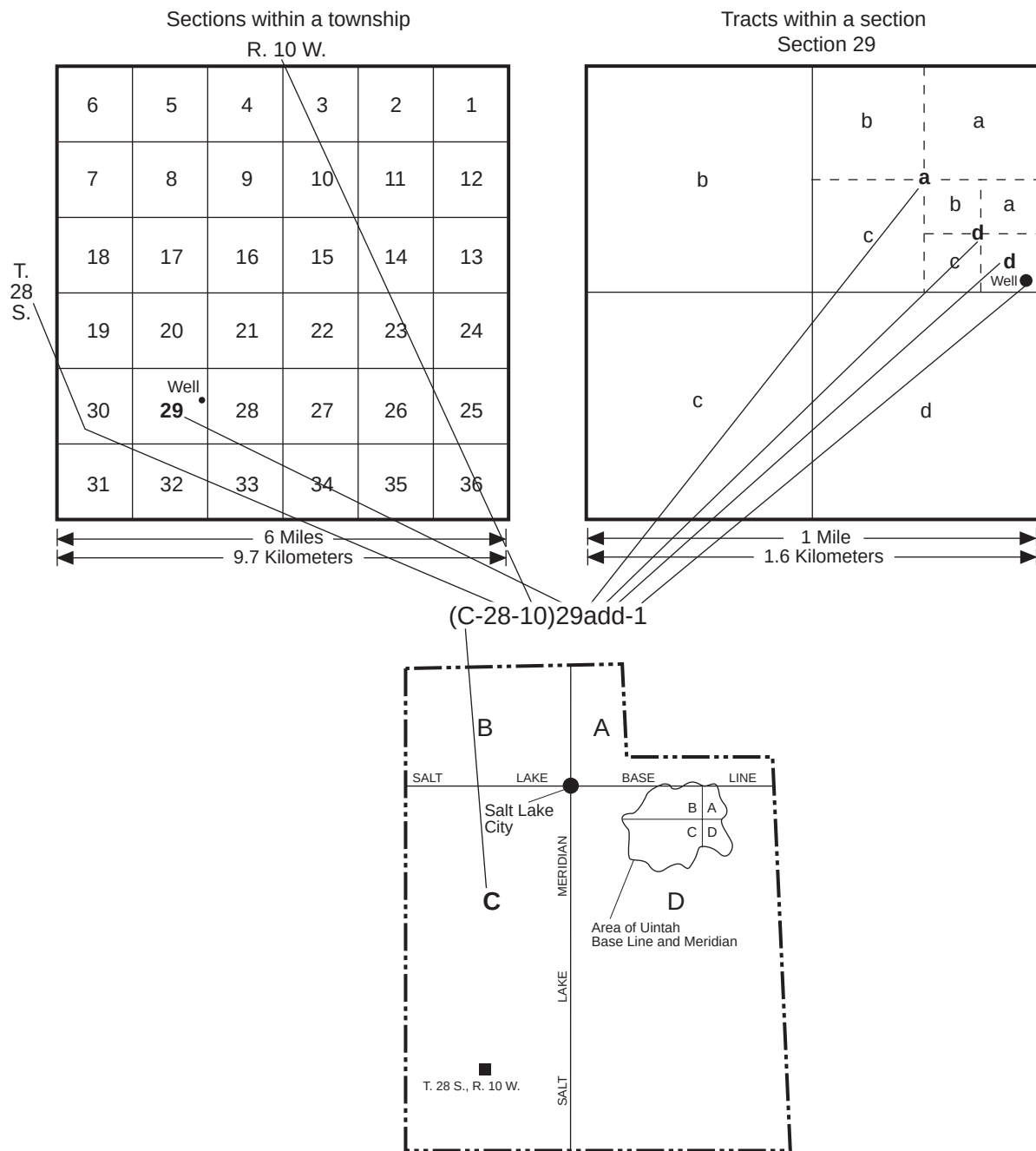


Figure 9. System for numbering wells and miscellaneous sites (township and range).

In addition to the Salt Lake Base Line and Salt Lake Meridian, which apply to most of Utah, the Uintah Base Line and Meridian are the basis for describing locations in a small, irregularly shaped area of north-eastern Utah. The quadrants, townships, ranges, sections, and parts of sections are designated in the same way as for the Salt Lake Base Line and Meridian. For any location in the Uintah area, however, the letter "U" precedes the parenthesis.

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 of 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 effects 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 was operated in the Mississippi, Columbia, Colorado, and Rio Grande basins. For the period 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 are 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/>.

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations (fig. 9) consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records and other information are used to supplement base data in

determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, Water-Supply Paper 2175, and the U.S. Geological Survey Techniques of Water Resources Investigations (TWRI's), Book 3, Chapter A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. 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 computed by the shifting-control method in which correction factors based on individual discharge measurements and notes by engineers and observers are used applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

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 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 northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of 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.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

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

Data Presentation

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

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

Station Manuscript

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

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gaging station 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, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

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 records have been published 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 flow at it can reasonably be considered equivalent to flow at the present station.

REVISIONS.--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.

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

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

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

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

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

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the 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 for a discontinued station 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. No changes have been made to the data presentations of lake contents.

Data Table of Daily Mean Values

The daily table of discharge records 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 each 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 or in acre-feet may be 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 diversion data or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS -, BY WATER YEAR (WY)," and will list the first and last water years of the

range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary Statistics

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

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

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

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

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

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

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

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

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

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

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

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript for 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 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 of 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 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.

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 observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good" within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy. Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

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 Data Available

Information of a more detailed nature than that published for most of the gaging stations such as discharge measurements, gage-height records, and rating tables is available from the District office. Also, most gaging-station records are available in computer-usable form and many statistical analysis have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the District office.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, etc.); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

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 at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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 and minimum values for each constituent measured, and are based upon 15-minute or 1-hour interval recorded data beginning at 0015 hours and ending at 2400 hours for the day of record.

SURFACE-WATER-DISCHARGE AND SURFACE-WATER-QUALITY RECORDS

Remarks Codes

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

PRINT OUTPUT	REMARK
E or 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

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

Change in National Trends Network Procedures

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 Program Office, Illinois State Water Survey, 2204 Griffith Drive, Champaign, IL 61820-7495 (217-333-7873).

Water Quality-Control Data

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

Blank Samples

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

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

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

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

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

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

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

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

Reference Samples

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

Replicate Samples

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

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

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

Spike samples - 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.

Water Temperature

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

At stations where recording instruments are used, maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections. During periods of rapidly changing flow or rapidly changing concentration samples may have been collected more frequently (twice daily). 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 0.9927, 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.

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

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

Laboratory Analysis

Methods used to analyze sediment samples and to compute sediment records are described in the TWRI Book 54, 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.

Accuracy of Laboratory Analysis

In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L gave a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989. Sulfate values in this report have not been corrected for this bias.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the Data

Generally, only ground-water level data from selected wells with continuous recorders from a basic network of observation wells are published herein (fig. 10). This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers. In addition to the wells with continuous recorders, water-level data collected on a monthly basis for 26 selected wells in Wasatch County are also published.

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 produced for local needs (see figures 7 and 8).

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey TWRI publications referred to in the "On-site Measurements and Sample Collection" and the "Laboratory Measurements" sections in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations, Book 1, Chap. D2; Book 3, Chap. A1, A3, and A4; Book 9, Chap. A1-A9. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

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 above sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

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

Access to WATSTORE 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 various media. 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). 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-A10. *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

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

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

Section C. Sedimentation and Erosion Techniques

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

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

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

Section B. Surface Water

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

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

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

- 7–C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS–TWRI book 7, chap. C1. 1976. 116 p.
- 7–C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L.F. Konikow and J.D. Bredehoeft: USGS–TWRI book 7, chap. C2. 1978. 90 p.
- 7–C3. *A model for simulation of flow in singular and interconnected channels*, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI book 7, chap. C3. 1981. 110 p.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

- 8–A1. *Methods of measuring water levels in deep wells*, by M.S. Garber and F.C. Koopman: USGS–TWRI book 8, chap. A1. 1968. 23 p.
- 8–A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 p.

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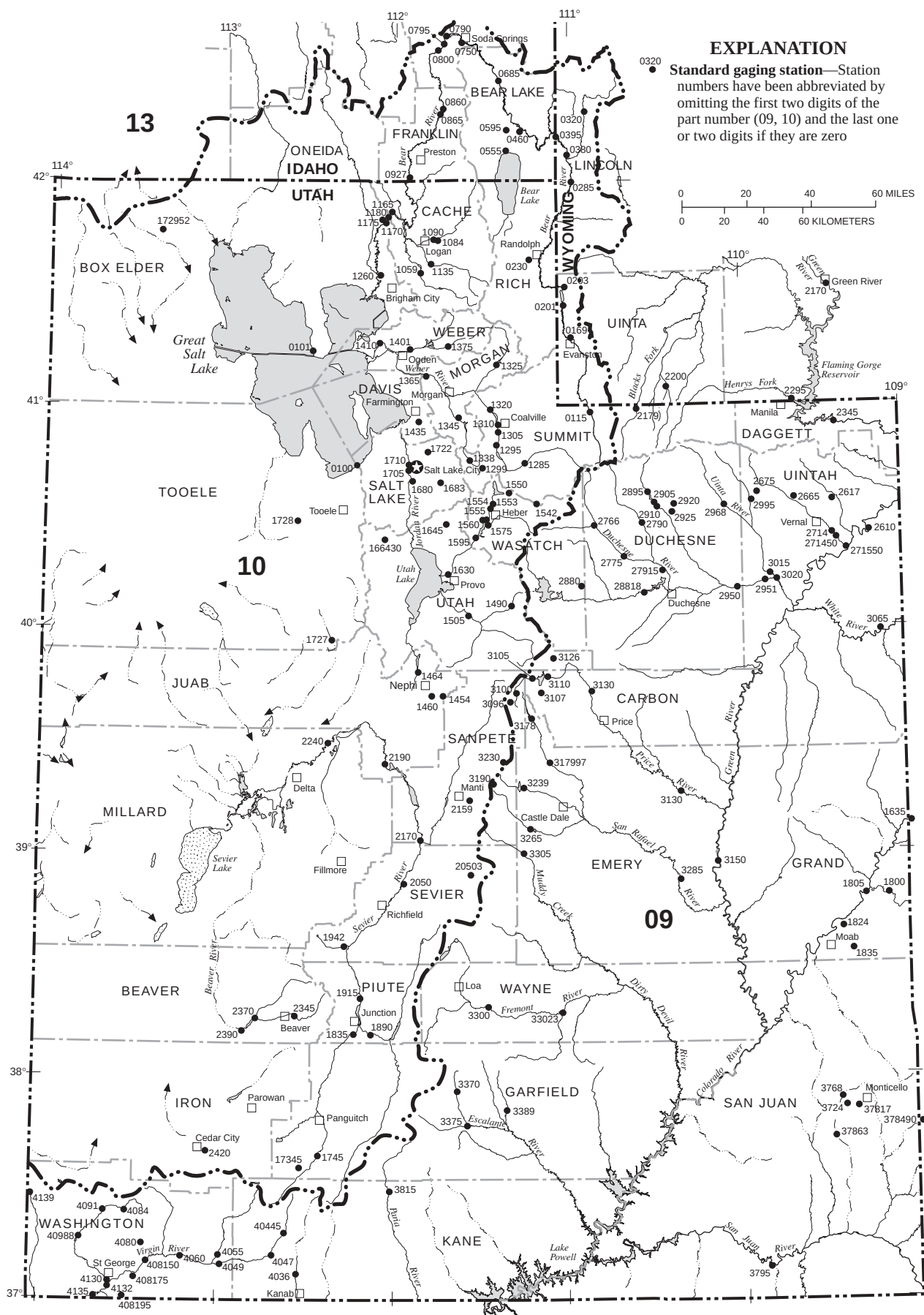
- 8–B2. *Calibration and maintenance of vertical-axis type current meters*, by G.F. Smoot and C.E. Novak: USGS–TWRI book 8, chap. B2. 1968. 15 p.

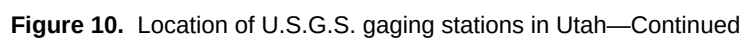
Book 9. Handbooks for Water-Resources Investigations

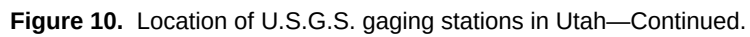
Section A. National Field Manual for the Collection of Water-Quality Data

- 9–A1. *National field manual for the collection of water-quality data: Preparations for water sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibbs, 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 Gibbs, 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 Gibbs, 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 Gibbs, 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 Gibbs, 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. Various 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. Various 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.







09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°07'58", long 109°01'35", in SE¹/₄NW¹/₄ sec.5, T.11 S., R.104 W., Mesa County, Hydrologic Unit 14010005, on right bank 0.5 mi downstream from McDonald Creek, 1.7 mi upstream from Colorado-Utah State line, and 12 mi southwest of Mack.

DRAINAGE AREA.--17,843 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1951 to current year.

REVISED RECORDS.--WRD Colo. 1974: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 4,325 ft above sea level, from topographic map. May 1951 to October 1979, water-stage recorder at site 5.7 mi upstream at different datum. October 1979 to March 1995, water stage recorder at site 0.2 mi downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversions for irrigation. (Records include all return flow from irrigated areas).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2750	3450	2470	2650	2060	2120	3060	1960	3830	1620	1330	1570
2	2730	3660	2670	2580	2020	2150	3050	1870	4470	1780	1320	1490
3	2690	3420	2810	2460	2010	2080	2860	2300	4360	1810	1430	1470
4	2740	3260	2810	2250	2200	1980	3160	2280	4260	1680	1530	1430
5	2710	3210	2840	2230	2260	2030	3240	1870	3750	1700	1580	1350
6	2610	3240	2770	2350	2200	2180	3650	1780	3290	1940	2090	1290
7	2530	3220	2690	2550	2190	2250	3510	2020	2250	2250	2280	1510
8	2650	3200	2620	2660	2250	2340	3330	2430	2980	2120	2090	2230
9	3600	3430	2610	2690	2240	2450	3090	2860	2980	1900	2100	1950
10	4400	3500	2420	2630	2240	2300	2870	2870	2910	1780	2080	2010
11	3860	3190	2490	2620	2290	2150	3000	2400	2870	1820	1930	1930
12	3760	3080	2630	2540	2220	2310	3420	2290	2660	1740	1650	2550
13	3760	3000	2590	2420	2170	2330	3250	2100	2420	1610	1490	2800
14	3720	3040	2460	2380	2250	2530	2870	2230	2230	1530	1360	2460
15	3830	2930	2440	2330	2300	2680	2560	2040	2030	1450	1320	2460
16	3750	2970	2490	2190	2320	2410	2900	2220	1950	1410	1330	2320
17	3630	2930	2440	2270	2440	2300	3110	2570	1930	1450	1310	2380
18	3580	2930	2360	2370	2360	2230	2930	3070	1900	1440	1300	2360
19	3420	2880	2380	2230	2370	2210	2520	3060	1740	1420	1280	2830
20	3320	2830	2460	2180	2410	2160	2020	3340	1570	1480	1370	2730
21	3260	2800	2440	2240	2380	2170	1980	3730	1570	1530	1650	2650
22	3290	2780	2640	2410	2320	2300	2270	3920	1570	1570	1810	2450
23	3270	3020	2540	2530	2250	2530	2130	3950	1600	1670	1770	2190
24	3220	3090	2380	2370	2230	2560	1940	3540	1610	1640	1770	2070
25	3230	3060	2140	2210	2240	2690	1600	3250	1580	1560	1590	1790
26	3260	3030	2110	1990	2240	2540	1860	2890	1500	1640	1480	1780
27	3310	2970	2180	2160	2070	2610	2490	2560	1520	1770	1360	1840
28	3210	2870	2330	2540	1980	2480	2570	2430	1570	1820	1360	1890
29	3210	2670	2390	2570	---	2430	2560	2420	1640	1740	1370	2330
30	3120	2550	2460	2480	---	2560	2230	2590	1660	1580	1590	2700
31	3160	---	2610	2290	---	2690	---	3010	---	1460	1600	---
TOTAL	101580	92210	77670	74370	62510	72750	82030	81850	72920	51910	49520	62810
MEAN	3277	3074	2505	2399	2232	2347	2734	2640	2431	1675	1597	2094
MAX	4400	3660	2840	2690	2440	2690	3650	3950	4470	2250	2280	2830
MIN	2530	2550	2110	1990	1980	1980	1600	1780	1500	1410	1280	1290
AC-FT	201500	182900	154100	147500	124000	144300	162700	162300	144600	103000	98220	124600

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

MEAN	4018	4029	3601	3376	3438	3880	5855	14010	16950	7725	3921	3683
MAX	7672	6925	5993	6129	5996	7486	15600	37960	43830	29650	10190	7174
(WY)	1987	1987	1986	1985	1985	1986	1985	1984	1957	1995	1983	1997
MIN	1916	2363	2048	1871	1815	1984	1631	2283	2431	1662	1350	1361
(WY)	1957	1978	1964	1964	1964	1964	1977	1977	2002	1977	1977	1956

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1951 - 2002
ANNUAL TOTAL	1390450	882130	
ANNUAL MEAN	3809	2417	6211
HIGHEST ANNUAL MEAN			13470
LOWEST ANNUAL MEAN			2417
HIGHEST DAILY MEAN	13000	May 18	68300
LOWEST DAILY MEAN	2100	Jul 26	960
ANNUAL SEVEN-DAY MINIMUM	2280	Dec 24	1110
MAXIMUM PEAK FLOW			5520
MAXIMUM PEAK STAGE		4.75	16.12
ANNUAL RUNOFF (AC-FT)	2758000	1750000	4500000
10 PERCENT EXCEEDS	6680	3260	13400
50 PERCENT EXCEEDS	3090	2380	3950
90 PERCENT EXCEEDS	2490	1570	2260

a At site 0.2 mi downstream, at present datum.

b From high-water mark.

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1969 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1979 to current year.

WATER TEMPERATURE: October 1979 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1979.

REMARKS.-- Daily records of specific conductance are good, except for periods Oct. 1-23, Aug. 2-15, which are fair, and Oct. 24 to Nov. 20, Nov. 23 to Feb. 20, May 21-27, May 31 to June 4, and July 9 to Aug. 1, which are poor. Daily records of water temperature are good. October 1979, water-quality data collection was moved 5.5 mi upstream to this site from previous site 09163530. Water-quality records for this site are considered to be equivalent to data obtained at old site. Data from the old site are stored with this station. Prior to October 1995, unpublished maximum and minimum specific conductance data available in district office. Additional selected water-quality data were collected as part of a water-quality assessment of drought conditions and are published in the "Drought Synoptic Sampling" section of this report.

Note: Suspended Sediment Discharge table: a sampler code of 3009 is a D-74 suspended sediment sampler; a code of 3039 is a D-77 water-quality sampler; a code of 3044 is a DH-81 depth-integrating sampler. Suspended sediment concentrations associated with a sampler type coded 3039 were determined from a subsample split of a composite sample.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum 1,940 microsiemens/cm, Aug. 13, 1981; minimum, 277 microsiemens/cm, June 11, 1985.

WATER TEMPERATURE: Maximum, 27.4°C, July 8, 2001; minimum, -0.3°C on several days in Dec. 1996 and Jan. 1997.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,650 microsiemens/cm, Sept. 17; minimum, 737 microsiemens/cm, June 2.

WATER TEMPERATURE: Maximum, 27.2°C, July 8; minimum, 0.0°C, Dec. 17, 24, Jan. 16, 18, Feb. 5.

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

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CAC03) (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 AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HC03 (00453)
OCT													
23...	1110	3310	1230	8.4	11.0	9.2	430	115	34.5	100	2	3.88	199
DEC													
10...	1320	2460	1280	8.5	1.0	13.1	400	104	34.7	117	3	3.89	194
FEB													
21...	0935	2370	1170	8.4	3.0	13.1	330	86.5	28.9	117	3	4.14	179
MAR													
19...	1320	2220	1170	8.5	6.5	13.2	340	88.0	29.6	119	3	4.05	168
APR													
11...	0940	3110	847	8.2	13.0	8.4	260	69.4	20.8	70.8	2	3.18	146
MAY													
22...	0645	3750	943	8.2	14.5	8.3	320	88.0	25.1	78.3	2	3.09	155
JUL													
09...	0945	1930	1320	8.2	24.0	6.6	470	130	35.5	103	2	4.24	170
AUG													
01...	0910	1280	1400	8.3	23.5	6.6	520	139	42.2	113	2	4.35	168
SEP													
17...	0940	2520	1600	8.2	18.0	7.4	600	171	42.4	132	2	5.27	190

Date	CAR- BONATE WATER DIS IT FIELD MG/L AS C03 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CAC03 (39086)	SULFATE DIS- SOLVED (MG/L AS S04) (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 SI02) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L AS) (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)
OCT													
23...	2	167	359	89.4	.5	9.8	815	1.11	7280	.008	.79	<.04	.36
DEC													
10...	4	165	328	120	.3	10.5	821	1.12	5450	.015	.84	<.04	.23
FEB													
21...	2	151	267	133	.4	8.9	739	1.01	4730	.008	.63	E.03	.30
MAR													
19...	4	144	264	130	.4	7.2	729	.99	4370	--	--	--	--
APR													
11...	--	120	194	70.2	.3	9.4	513	.70	4310	.020	.63	.07	.84
MAY													
22...	--	127	236	75.0	.3	7.5	592	.80	5990	.012	.59	E.02	.83
JUL													
09...	--	139	395	96.9	.4	7.1	859	1.17	4470	.015	.72	<.04	.53
AUG													
01...	--	138	437	98.0	--	6.75	926	1.26	3200	.012	.87	<.04	--
SEP													
17...	--	156	496	112	--	12.9	1070	1.46	7290	.014	1.31	<.04	--

E Estimated laboratory analysis value.

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

Date	PHOS- TOTAL (MG/L AS P) (00665)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 23...	.102	<.02	5.8
DEC 10...	.030	<.02	5.3
FEB 21...	.025	<.02	4.4
MAR 19...	--	--	4.7
APR 11...	.23	.04	3.8
MAY 22...	.21	E.01	5.1
JUL 09...	.139	E.01	7.3
AUG 01...	.11	E.01	8.8
SEP 17...	1.95	<.02	11.1

Date	Time	2, 6-DI-ETHYL-ANILINE	ACETO-CHLOR,	ALA-CHLOR,	ALPHA BHC DIS-SOLVED	ATRA-ZINE,	BEN-FLUR-ALIN	BUTYL-ATE,	CAR-BARYL-WATER	CARBO-FURAN WATER	CHLOR-PYRIFOS	CYANA-ZINE,	DCPA WATER
		WAT FLT 0.7 U GF, REC (UG/L) (82660)	WATER, FLTRD REC (UG/L) (49260)	WATER, DISS, REC, (UG/L) (46342)		WATER, DISS, REC (UG/L) (39632)	WAT FLD 0.7 U GF, REC (UG/L) (82673)	WATER, DISS, REC (UG/L) (04028)	FLTRD 0.7 U GF, REC (UG/L) (82680)	FLTRD 0.7 U GF, REC (UG/L) (82674)		WATER, DISS, REC (UG/L) (38933)	WATER, DISS, REC (UG/L) (04041)
OCT 23...	1110	<.002	<.004	<.002	<.005	.019	<.010	<.002	<.041	<.020	<.005	<.018	<.003
DEC 10...	1320	<.002	<.004	<.002	<.005	E.004	<.010	<.002	<.041	<.020	<.005	<.018	<.003
FEB 21...	0935	<.006	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003
APR 11...	0940	<.006	<.006	<.004	<.005	.031	<.010	<.002	<.041	<.020	<.005	<.018	.003
MAY 22...	0645	<.006	.007	.007	<.005	E.006	<.010	<.002	<.041	E.026	<.005	<.018	E.002
JUL 09...	0945	<.006	<.006	<.004	<.005	.008	<.010	<.002	<.041	E.008	<.005	<.018	E.003
AUG 01...	0910	<.006	<.006	<.004	<.005	E.006	<.010	<.002	E.006	<.020	<.005	<.018	<.003
SEP 17...	0940	<.006	<.006	<.004	<.005	E.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003

Date	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL - FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL - FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)
OCT 23...	E.002	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006
DEC 10...	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006
FEB 21...	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006
APR 11...	<.006	E.004	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006
MAY 22...	<.006	E.003	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	E.003	<.050	<.006
JUL 09...	E.003	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006
AUG 01...	E.004	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	E.006	<.006
SEP 17...	<.006	<.005	<.005	<.02	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006

E Estimated laboratory analysis value.

COLORADO RIVER MAIN STEM

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued
(National Water-Quality Assessment Program station)

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

Date	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P, P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)
OCT 23...	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.008	<.010
DEC 10...	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.004	<.010
FEB 21...	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010
APR 11...	.024	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010
MAY 22...	E.005	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010
JUL 09...	E.008	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	E.01	<.004	<.010
AUG 01...	E.010	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	M	<.004	<.010
SEP 17...	E.007	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010

Date	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
OCT 23...	<.011	<.02	<.011	<.02	<.034	<.02	<.005	<.002	<.009
DEC 10...	<.011	<.02	<.011	<.02	<.034	<.02	<.005	<.002	<.009
FEB 21...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
APR 11...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
MAY 22...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	E.003
JUL 09...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
AUG 01...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
SEP 17...	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009

E Estimated laboratory analysis value.

M Presence of material verified but not quantified.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SAMPLER TYPE (CODE) (84164)
OCT 23...	1110	3310	11.0	44	398	--	3039
DEC 23...	1130	3310	--	93	828	--	3009
DEC 10...	1235	2470	--	15	100	--	3009
DEC 10...	1320	2460	1.0	6.3	41.8	--	3039
FEB 21...	0900	2380	--	20	127	--	3009
FEB 21...	0935	2370	3.0	17	106	--	3039
APR 11...	0905	3060	--	184	1520	--	3009
APR 11...	0940	3110	13.0	183	1540	--	3039
MAY 22...	0610	3710	--	207	2080	--	3009
MAY 22...	0645	3750	14.5	169	1710	--	3039
JUL 09...	0910	1920	--	77	400	--	3009
JUL 09...	0945	1930	24.0	66	347	--	3039
AUG 01...	0845	1280	--	72	251	--	3044
AUG 01...	0910	1280	23.5	60	206	--	3044
SEP 17...	0900	2540	18.0	1340	9190	87	3009
SEP 17...	0940	2520	18.0	2400	16300	--	3039

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued
(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	1170	1140	1160	1150	1100	1130	1230	1200	1220	1180	1140	1160
2	1170	1130	1150	1110	1060	1080	1290	1230	1250	1170	1130	1150
3	1170	1160	1170	1060	1010	1020	1330	1290	1310	1140	1110	1130
4	1180	1150	1170	1040	1020	1030	1320	1290	1300	1140	1120	1130
5	1190	1160	1170	1040	1020	1020	1300	1280	1280	1150	1140	1140
6	1200	1160	1180	1020	1000	1010	1280	1260	1270	1160	1140	1150
7	1190	1160	1170	1010	967	985	1260	1250	1260	1200	1160	1180
8	1190	1160	1170	967	943	954	1270	1240	1260	1180	1140	1160
9	1280	1010	1180	943	924	931	1280	1260	1260	1140	1120	1130
10	1330	1150	1230	981	924	958	1300	1270	1280	1120	1100	1110
11	1230	1160	1200	1000	969	987	1290	1260	1270	1100	1090	1090
12	1230	1190	1210	1040	1000	1020	1290	1260	1270	1140	1090	1110
13	1190	1180	1180	1080	1040	1060	1310	1270	1290	1130	1100	1110
14	1180	1160	1170	1110	1080	1090	1300	1280	1290	1120	1100	1110
15	1170	1150	1160	1130	1110	1120	1290	1260	1280	1160	1120	1130
16	1150	1150	1150	1180	1130	1160	1290	1250	1270	1160	1130	1160
17	1160	1140	1150	1190	1170	1180	1330	1270	1300	1160	1140	1150
18	1160	1140	1150	1190	1180	1190	1330	1320	1320	1180	1140	1150
19	1160	1140	1150	1230	1190	1200	1320	1280	1300	1190	1120	1160
20	1170	1160	1160	1260	1230	1240	1320	1220	1270	1180	1150	1160
21	1180	1170	1180	1250	1220	1230	1330	1300	1320	1170	1140	1160
22	1190	1180	1190	1220	1200	1210	1310	1230	1270	1160	1130	1140
23	1200	1190	1200	1250	1110	1160	1270	1200	1240	1170	1140	1160
24	1210	1190	1200	1230	1190	1200	1260	1200	1230	1180	1140	1160
25	1210	1200	1210	1200	1200	1200	1230	1180	1210	1180	1140	1160
26	1210	1190	1200	1200	1170	1190	1240	1170	1210	1180	1040	1150
27	1190	1170	1180	1180	1170	1180	1250	1190	1210	1150	1110	1130
28	1170	1140	1160	1180	1180	1180	1260	1190	1220	1160	1110	1140
29	1190	1150	1170	1200	1170	1180	1250	1200	1220	1200	1160	1190
30	1190	1160	1180	1200	1180	1190	1250	1180	1210	1180	1160	1170
31	1180	1140	1160	---	---	---	1210	1160	1180	1160	1140	1150
MONTH	1330	1010	1180	1260	924	1110	1330	1160	1260	1200	1040	1140

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1160	1130	1150	---	---	---	1030	967	998	1100	1070	1080
2	1180	1130	1160	---	---	---	1020	955	986	1150	1100	1120
3	1150	1070	1130	---	---	---	984	939	959	1150	1120	1140
4	1150	1120	1130	---	---	---	1010	916	959	1120	1080	1110
5	1180	1130	1160	---	---	---	959	904	922	1100	1070	1080
6	1190	1130	1160	---	---	---	910	881	894	1160	1100	1130
7	1180	1120	1150	---	---	---	889	852	865	1190	1150	1170
8	1170	1120	1150	1170	---	---	859	817	844	1190	1130	1170
9	1170	1130	1150	1160	1070	1130	832	809	822	1140	1040	1100
10	1170	1110	1140	1200	1060	1140	857	827	839	1040	1000	1010
11	1160	1110	1140	1240	1200	1220	865	836	849	1050	1020	1030
12	1150	1120	1130	1220	1130	1200	836	814	827	1080	1030	1050
13	1140	1130	1130	1230	1130	1200	845	806	829	1170	1080	1120
14	1160	1130	1150	1280	1210	1260	858	827	839	1190	1160	1180
15	1170	1150	1160	1250	1170	1200	917	857	884	1230	1160	1180
16	1170	1150	1160	1240	1190	1210	960	911	933	1240	1190	1220
17	1160	1140	1160	1210	1130	1150	954	929	940	1210	1180	1190
18	1160	1120	1140	1170	1140	1160	932	912	922	1180	1080	1130
19	1150	1120	1140	1180	1150	1170	945	926	932	1080	1010	1050
20	1160	1140	1150	1180	1140	1160	1020	945	971	1010	987	1000
21	1170	1150	1160	1170	1100	1150	1070	1020	1050	988	965	980
22	1180	1140	1150	1100	1050	1080	1080	1070	1070	970	904	947
23	1160	1130	1150	1070	1020	1050	1100	1080	1100	906	817	855
24	1200	1130	1140	1080	1020	1050	1100	1080	1090	819	773	802
25	1200	1180	1190	1130	1060	1090	---	---	---	789	768	774
26	1180	1130	1180	1080	1050	1060	1180	---	---	845	788	814
27	---	---	---	1070	1030	1040	1180	1140	1170	931	845	888
28	---	---	---	1030	1020	1020	1140	1060	1100	924	890	907
29	---	---	---	1060	1020	1050	1060	1020	1040	977	898	942
30	---	---	---	1040	1030	1040	1070	1030	1050	1010	955	990
31	---	---	---	1100	1010	1040	---	---	---	996	975	987
MONTH	---	---	---	---	---	---	---	---	---	1240	768	1040

COLORADO RIVER MAIN STEM

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued
(National Water-Quality Assessment Program station)

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	975	822	921	1330	1320	1320	1480	1370	1430	1540	1520	1530
2	822	737	780	1350	1310	1340	1480	1450	1460	1540	1520	1530
3	764	742	749	1340	1320	1330	1500	1470	1480	1560	1530	1550
4	798	764	787	1340	1260	1320	1490	1450	1470	1560	1550	1550
5	850	798	826	1290	1220	1270	1490	1410	1460	1590	1550	1570
6	919	848	887	1220	1160	1200	1490	1390	1430	1600	1560	1580
7	989	919	962	1290	1150	1250	1460	1330	1390	1620	1570	1590
8	1000	965	987	1280	1250	1270	1380	1280	1330	---	---	---
9	972	917	946	1380	1250	1330	1370	1280	1330	---	---	---
10	917	870	897	1360	1330	1340	1380	1350	1360	---	---	---
11	975	861	882	1360	1340	1350	1370	1330	1350	---	---	---
12	1040	973	1010	1360	1330	1350	1410	1320	1390	---	---	---
13	1050	1010	1030	1380	1340	1360	1470	1390	1430	---	---	---
14	1070	1040	1060	1370	1350	1360	1580	1440	1510	---	---	---
15	1140	1070	1110	1420	1350	1380	1590	1540	1560	---	---	---
16	1170	1120	1150	1470	1400	1440	1550	1530	1540	---	---	---
17	1200	1160	1180	1440	1360	1390	1550	1520	1540	1650	1530	---
18	1220	1170	1200	1410	1350	1380	1530	1500	1510	1540	1370	1440
19	---	---	---	1510	1380	1430	1510	1480	1490	1520	1350	1430
20	---	---	---	1520	1410	1460	1510	1480	1500	1400	1340	1360
21	1320	---	---	1560	1460	1500	1540	1440	1470	1420	1390	1410
22	1320	1280	1300	1460	1390	1430	1450	1420	1440	1420	1380	1400
23	1330	1300	1310	1410	1310	1350	1480	1410	1460	1420	1360	1400
24	1320	1300	1310	1390	1290	1340	1480	1450	1460	1450	1410	1430
25	1340	1300	1320	1350	1300	1330	1470	1450	1460	1480	1430	1460
26	1360	1310	1330	1350	1280	1300	1480	1450	1460	1490	1440	1480
27	1360	1320	1340	1350	1260	1310	1540	1470	1500	1560	1470	1510
28	1370	1340	1360	1300	1240	1290	1560	1510	1540	1540	1470	1510
29	1370	1340	1350	1370	1270	1350	1540	1520	1530	1540	1460	1480
30	1350	1320	1330	1350	1310	1330	1580	1510	1540	1460	1260	1350
31	---	---	---	1390	1320	1360	1580	1530	1550	---	---	---
MONTH	---	---	---	1560	1150	1350	1590	1280	1460	---	---	---

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	19.0	16.8	17.8	11.6	10.6	11.1	4.0	2.8	3.3	2.3	1.3	1.7
2	19.1	17.3	18.1	11.1	9.9	10.5	4.1	3.6	3.8	1.7	0.7	1.2
3	18.5	16.8	17.7	10.7	9.5	10.1	5.2	3.8	4.4	1.2	0.3	0.7
4	17.4	15.8	16.6	10.4	9.1	9.7	4.9	4.4	4.6	1.6	0.6	1.0
5	17.1	15.1	16.0	10.2	9.1	9.7	4.9	4.1	4.5	1.6	0.8	1.2
6	16.1	13.9	14.9	10.7	9.3	10.0	4.3	3.5	3.9	1.3	0.5	0.9
7	15.6	13.9	14.7	11.1	10.0	10.5	4.3	3.4	3.8	2.4	0.9	1.5
8	15.7	13.7	14.7	11.1	10.0	10.5	3.6	2.5	3.0	2.7	1.6	2.1
9	15.3	12.5	14.1	10.4	9.2	9.9	2.5	1.7	2.2	2.7	1.9	2.2
10	13.7	11.9	12.8	9.8	8.8	9.4	1.8	1.1	1.4	3.1	1.8	2.3
11	12.7	11.0	11.6	9.6	8.5	9.1	1.9	1.0	1.4	2.6	1.6	2.1
12	11.2	9.8	10.6	9.3	8.4	8.9	1.8	0.9	1.3	2.4	1.2	1.8
13	11.7	9.8	10.7	9.1	8.3	8.7	1.1	0.3	0.7	2.3	1.0	1.5
14	11.9	10.2	11.0	9.8	8.3	9.0	1.3	0.1	0.6	1.4	0.3	0.9
15	12.6	10.6	11.5	9.3	8.2	8.8	0.9	0.3	0.7	1.0	0.1	0.5
16	12.4	10.8	11.6	9.1	7.9	8.5	0.5	0.0	0.2	0.6	0.0	0.2
17	12.5	10.8	11.6	8.7	7.6	8.1	0.5	0.0	0.2	1.3	0.1	0.6
18	12.6	11.1	11.8	7.9	7.2	7.6	1.1	0.1	0.5	0.8	0.0	0.3
19	12.4	10.7	11.6	7.7	6.5	7.1	0.8	0.1	0.5	0.2	0.1	0.1
20	12.2	10.7	11.5	6.9	6.0	6.4	1.1	0.1	0.4	0.2	0.1	0.1
21	11.7	10.7	11.0	6.2	5.1	5.7	1.0	0.1	0.5	0.6	0.1	0.3
22	11.8	10.2	11.0	6.2	5.6	5.9	1.0	0.1	0.5	0.7	0.1	0.3
23	11.8	10.6	11.2	6.4	5.6	6.0	0.8	0.1	0.3	0.9	0.1	0.4
24	11.0	9.4	10.0	5.6	5.0	5.3	0.3	0.0	0.1	0.1	0.1	0.1
25	10.2	8.8	9.4	5.5	4.7	5.3	0.2	0.1	0.1	0.2	0.1	0.1
26	9.9	8.3	9.1	5.4	4.2	4.8	0.2	0.1	0.1	0.3	0.1	0.1
27	9.9	8.3	9.1	4.9	3.7	4.5	0.3	0.1	0.1	0.6	0.1	0.3
28	10.7	9.1	9.8	3.7	2.6	3.0	0.7	0.1	0.4	1.1	0.4	0.7
29	11.4	9.6	10.5	2.7	2.2	2.5	0.6	0.1	0.3	1.6	0.7	1.1
30	12.5	11.0	11.7	3.3	1.9	2.6	1.3	0.4	0.8	1.2	0.5	0.9
31	12.2	11.4	11.8	---	---	---	1.9	1.2	1.5	0.5	0.1	0.2
MONTH	19.1	8.3	12.4	11.6	1.9	7.6	5.2	0.0	1.5	3.1	0.0	0.9

COLORADO RIVER MAIN STEM

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09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE--Continued
(National Water-Quality Assessment Program station)

WATER TEMPERATURE (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	0.4	0.1	0.1	4.6	3.3	3.9	14.3	11.8	13.0	16.4	14.3	15.2
2	0.3	0.1	0.1	3.6	1.8	2.8	14.4	12.0	13.2	16.3	13.5	15.0
3	0.5	0.1	0.3	3.3	1.0	2.2	14.7	12.4	13.5	16.3	14.2	15.2
4	0.8	0.1	0.4	3.3	0.7	2.0	15.5	12.8	14.1	17.6	14.6	16.0
5	1.2	0.0	0.6	4.0	1.4	2.7	15.5	13.0	14.2	17.8	15.4	16.7
6	1.0	0.1	0.5	5.5	2.3	3.8	14.5	12.8	13.7	18.1	15.6	17.0
7	0.9	0.1	0.5	6.3	4.2	5.2	15.0	12.7	13.8	17.9	16.2	17.2
8	0.9	0.1	0.4	6.6	5.0	6.1	14.7	12.9	13.7	17.3	15.7	16.6
9	0.6	0.1	0.3	5.8	3.4	4.6	15.4	12.8	14.0	16.5	13.6	15.0
10	1.2	0.1	0.5	5.9	4.0	5.0	14.6	13.6	14.1	15.8	13.9	14.6
11	1.5	0.1	0.8	7.7	4.6	6.1	15.1	12.8	13.8	16.2	13.0	14.6
12	1.7	0.3	1.0	8.4	6.0	7.1	14.0	12.7	13.3	16.9	13.6	15.2
13	2.2	0.2	1.2	9.0	7.0	7.9	15.0	11.7	13.2	18.3	14.7	16.4
14	2.5	1.5	1.9	8.7	7.1	7.7	15.4	13.4	14.4	19.1	16.6	17.8
15	2.7	0.6	1.7	8.3	6.3	7.3	14.5	13.2	13.6	18.9	17.2	18.2
16	3.3	1.1	2.1	7.3	5.9	6.7	13.8	12.0	12.9	19.2	17.1	18.1
17	3.6	1.9	2.7	6.2	5.6	5.8	13.7	12.3	13.0	20.5	17.3	18.8
18	3.8	2.5	3.2	8.0	5.1	6.4	14.7	12.4	13.5	20.2	17.8	19.0
19	5.3	3.2	4.0	8.3	5.5	6.8	14.5	12.2	13.4	20.1	17.3	18.7
20	4.5	3.4	3.9	9.1	6.1	7.6	13.9	12.1	12.7	19.9	17.9	18.8
21	5.3	2.9	4.1	10.3	7.2	8.7	13.9	11.1	12.5	18.6	15.3	16.8
22	5.8	3.7	4.7	11.3	8.3	9.8	14.3	11.5	12.9	16.0	14.4	15.1
23	5.3	4.1	4.7	10.7	9.3	10.1	15.2	12.4	13.8	15.2	14.0	14.4
24	5.8	4.1	5.0	10.9	8.9	9.9	---	---	---	16.5	13.2	14.7
25	5.6	3.9	4.8	10.9	8.8	9.8	---	---	---	17.5	14.5	15.9
26	4.5	2.6	3.7	10.7	8.2	9.5	---	---	---	18.9	15.4	17.0
27	4.8	2.5	3.7	11.4	8.8	10.0	15.3	13.7	14.2	20.3	16.6	18.3
28	4.9	2.7	3.8	12.1	9.3	10.7	15.7	12.7	14.2	21.3	18.0	19.5
29	---	---	---	13.4	10.0	11.6	16.8	13.8	15.2	22.0	19.0	20.5
30	---	---	---	13.7	10.8	12.2	16.9	14.7	15.9	23.0	19.8	21.3
31	---	---	---	14.4	11.2	12.7	---	---	---	23.6	20.5	22.0
MONTH	5.8	0.0	2.2	14.4	0.7	7.2	---	---	---	23.6	13.0	17.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	22.6	21.1	21.6	24.6	21.6	23.1	24.8	23.3	24.0	21.0	18.8	19.9
2	21.1	19.7	20.2	25.0	22.0	23.4	23.8	21.9	22.5	21.9	18.9	20.3
3	19.8	18.3	19.1	24.5	23.2	23.7	24.1	21.1	22.5	21.5	19.4	20.0
4	19.3	16.7	18.1	23.5	22.3	22.9	24.1	22.0	23.1	21.0	18.1	19.5
5	20.5	17.8	19.1	24.9	21.3	23.0	23.7	22.1	22.9	21.8	19.2	20.4
6	21.9	18.7	20.2	25.3	22.1	23.7	23.8	22.1	22.9	21.4	19.9	20.3
7	22.6	19.7	21.1	26.6	23.2	24.8	23.0	21.3	22.1	20.8	18.8	19.6
8	21.7	20.1	20.8	27.2	24.3	25.6	23.4	21.5	22.4	20.5	17.9	19.4
9	21.3	19.4	20.2	26.6	23.9	25.3	23.5	21.0	22.2	21.3	18.8	20.0
10	19.9	17.7	18.7	26.1	23.5	24.7	23.4	21.0	22.3	22.3	19.8	20.8
11	20.2	17.4	18.7	26.9	23.9	25.3	23.6	20.7	22.2	21.7	20.2	20.6
12	21.2	18.0	19.5	27.1	24.3	25.6	23.0	21.3	22.2	20.5	17.8	19.6
13	22.7	19.0	20.7	27.1	24.0	25.5	23.0	20.3	21.7	20.6	18.3	19.5
14	23.1	20.2	21.7	26.8	24.2	25.5	23.0	20.6	21.8	20.7	18.3	19.6
15	23.1	20.4	21.8	27.0	24.1	25.5	23.0	20.5	21.7	20.8	18.5	19.7
16	24.0	21.2	22.6	26.9	24.3	25.5	23.3	20.8	22.1	20.7	18.4	19.6
17	23.3	21.4	22.5	26.5	23.8	25.1	23.3	21.2	22.2	19.7	17.9	18.7
18	23.5	21.3	22.4	26.1	24.2	25.1	23.0	21.1	22.1	18.7	17.4	18.0
19	---	---	---	25.8	24.4	25.0	23.8	21.2	22.4	18.2	16.0	17.1
20	---	---	---	24.8	23.3	23.9	23.3	21.5	22.4	18.1	15.9	17.0
21	22.6	---	---	25.5	21.6	23.4	22.7	20.9	21.7	18.4	16.0	17.2
22	23.0	20.9	21.9	25.0	22.7	23.8	22.3	20.3	21.3	18.7	16.3	17.5
23	23.9	20.6	22.2	25.4	22.5	23.8	21.6	19.7	20.6	18.5	16.1	17.3
24	24.3	20.9	22.6	26.4	22.9	24.5	22.1	19.4	20.8	18.4	16.0	17.2
25	25.0	21.4	23.1	25.8	23.8	24.7	22.1	19.3	20.8	17.8	16.4	17.1
26	24.9	21.8	23.4	25.6	23.1	24.3	22.0	19.6	20.9	18.4	16.3	17.2
27	25.3	22.5	23.7	25.0	23.2	24.0	22.2	19.8	21.1	17.5	15.8	16.6
28	24.9	22.1	23.6	24.2	22.4	23.4	21.3	19.5	20.4	16.7	15.8	16.3
29	24.3	22.4	23.4	25.1	22.0	23.5	20.3	19.3	19.8	16.7	14.5	15.9
30	24.2	21.6	22.9	25.5	22.6	24.0	20.8	17.6	19.0	16.0	13.8	14.9
31	---	---	---	25.3	22.7	24.0	21.0	18.9	19.9	---	---	---
MONTH	---	---	---	27.2	21.3	24.4	24.8	17.6	21.7	22.3	13.8	18.6

DOLORES RIVER BASIN

09180000 DOLORES RIVER NEAR CISCO, UT

LOCATION.--Lat 38°47'50", long 109°11'40", in SW¹/₄SE¹/₄ sec. 18, T. 23 S., R. 25 E., Grand County, Hydrologic Unit 14030004, on left bank 0.2 mi downstream from Line Canyon, 9.1 mi upstream from mouth, 13.5 mi downstream from Colorado-Utah State line, and 13.9 mi southeast of Cisco.

DRAINAGE AREA.--4,580 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733.

REVISED RECORDS.--WDR UT-75-1: 1974.

GAGE.--Water-stage recorder. Elevation of gage is 4,165 ft above NGVD of 1929, from river-profile map. December 6, 1950 to April 18, 1967, at site 200 ft downstream at different datum; April 19, 1967 to September 3, 1975 at site 10 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by MacPhee Reservoir, capacity 381,000 acre-ft, since 1986. Many diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft³/s, Apr 21, 1958, gage height, 9.84 ft at different datum; minimum daily discharge, 1.5 ft³/s, Jul 21, 2002.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 12	2115	*3,380	*10.21	No other peak greater than base discharge.			

Minimum daily discharge, 1.5 ft³/s, Jul 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	125	128	e106	e105	130	223	103	146	12	e6.8	e5.0
2	69	125	144	e106	e105	125	290	98	167	11	e6.4	e4.6
3	67	125	149	e101	e106	131	401	101	158	e8.7	e6.0	e4.2
4	66	124	161	e100	e110	103	395	105	150	e8.2	e5.7	e3.8
5	65	123	167	e100	e112	121	347	100	142	e7.9	e5.2	e3.2
6	65	124	170	e101	e110	114	327	88	112	e7.5	e8.0	e2.8
7	65	125	162	e105	e110	124	314	80	95	e6.9	31	e2.4
8	64	125	154	e106	e112	155	298	82	100	e6.3	27	e2.0
9	e90	124	142	e107	e112	167	283	102	113	e5.7	17	e1.7
10	e140	125	140	e107	e114	154	257	117	118	e5.2	18	e20
11	e130	125	128	e107	e118	141	261	112	112	e4.9	15	117
12	e130	123	137	e106	e122	137	267	107	109	e4.2	11	401
13	145	122	152	e106	e126	132	258	108	100	e3.6	e8.0	1020
14	188	123	147	e104	e126	143	265	106	84	e2.9	e7.5	502
15	154	125	152	e102	e128	155	260	107	79	e2.3	e6.7	348
16	133	124	142	e100	e128	156	256	111	70	e2.0	e6.0	269
17	129	123	135	e98	e132	140	243	124	63	e1.7	e5.3	175
18	127	122	121	e98	e132	138	211	138	59	e1.7	e4.5	145
19	124	114	101	e94	e134	128	180	129	50	e1.6	e3.8	175
20	123	99	106	e98	e138	124	160	157	44	e1.6	e3.0	156
21	122	91	102	e106	e144	119	146	164	39	e1.5	e2.1	139
22	123	91	e102	e106	149	121	144	137	35	e2.0	e1.9	114
23	122	95	e100	e104	146	124	137	163	30	e2.0	e1.8	93
24	120	99	e98	e102	149	131	125	129	23	e1.9	e24	81
25	121	115	e96	e101	154	141	119	130	22	e1.8	18	73
26	120	153	e94	e101	138	139	128	115	19	e8.0	13	67
27	120	153	e96	e101	127	133	142	99	16	13	e8.0	66
28	120	145	e98	e110	123	129	157	98	14	e9.0	e7.5	64
29	123	135	e100	e112	---	111	147	99	13	e8.0	e7.0	72
30	125	125	e100	e107	---	106	127	96	12	e7.4	e6.0	100
31	123	---	e100	e106	---	126	---	104	---	e7.2	e5.5	---
TOTAL	3485	3647	3924	3208	3510	4098	6868	3509	2294	167.7	296.7	4226.7
MEAN	112.4	121.6	126.6	103.5	125.4	132.2	228.9	113.2	76.47	5.410	9.571	140.9
MAX	188	153	170	112	154	167	401	164	167	13	31	1020
MIN	64	91	94	94	105	103	119	80	12	1.5	1.8	1.7
AC-FT	6910	7230	7780	6360	6960	8130	13620	6960	4550	333	589	8380

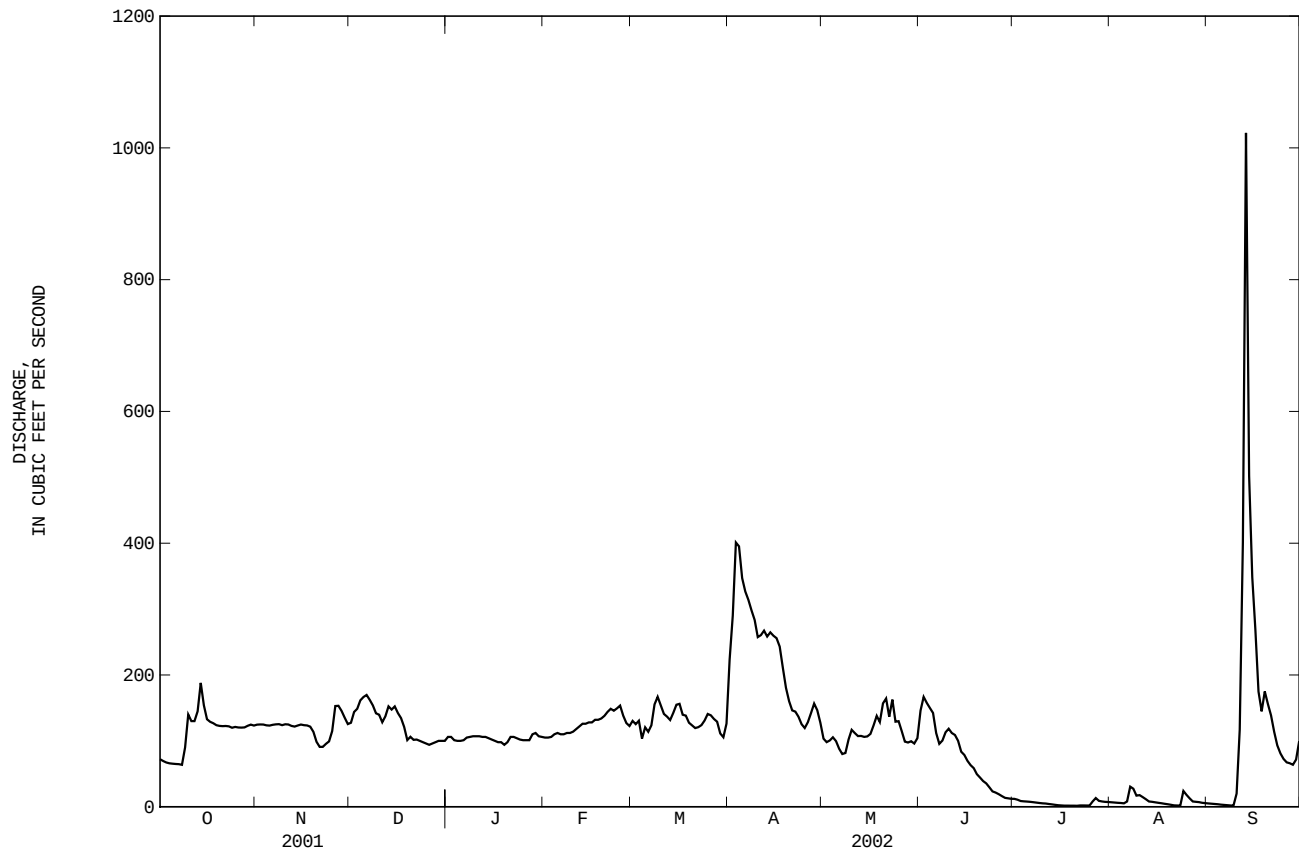
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2002, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	249.3	249.2	203.3	172.5	221.9	441.8	1654	2624	1497	511.4	296.5	238.3				
MAX	617	894	606	370	518	1037	5338	8803	3895	1827	917	779				
(WY)	1987	1987	1987	1987	1987	1987	1993	1993	1995	1995	1999	1999				
MIN	112	122	115	103	125	132	177	113	76.5	5.41	9.57	80.6				
(WY)	2002	2002	1990	2002	2002	2002	1990	2002	2002	2002	2002	1989				

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1987 - 2002	
ANNUAL TOTAL	115474		39234.1		697.9	
ANNUAL MEAN	316.4		107.5		1768	
HIGHEST ANNUAL MEAN					107	
LOWEST ANNUAL MEAN					12900	
HIGHEST DAILY MEAN	1670	Apr 20	1020	Sep 13	12900	May 18 1993
LOWEST DAILY MEAN	64	Oct 8	1.5	Jul 21	1.5	Jul 21 2002
ANNUAL SEVEN-DAY MINIMUM	66	Oct 2	1.7	Jul 16	1.7	Jul 16 2002
ANNUAL RUNOFF (AC-FT)	229000		77820		505600	
10 PERCENT EXCEEDS	880		159		1790	
50 PERCENT EXCEEDS	153		110		230	
90 PERCENT EXCEEDS	92		5.9		112	

e Estimated



DOLORES RIVER BASIN

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1951 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1951 to September 1959, October 1964 to September 1981, March 1982 to current year.

WATER TEMPERATURE: March 1951 to September 1959, October 1964 to September 1981, March 1982 to current year.

SUSPENDED-SEDIMENT DISCHARGE: March 1951 to December 1953, October 1957 to September 1964.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 21,600 microsiemens, Jul 9, 1977; minimum observed, 240 microsiemens, Jun 22, 1983.

WATER TEMPERATURE: Maximum observed, 32.0°C, Jul 9, 2002; minimum, 0.0°C, on many days during winter period most years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum observed, 5,620 microsiemens, Aug 3; minimum observed, 620 microsiemens, Apr 4.

WATER TEMPERATURES: Maximum observed, 32.0°C, Jul 9; minimum observed, 0.0°C, Dec 20.

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

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	GAGE HEIGHT (FEET) (00065)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
NOV 15...	0915	120	8.3	1220	8.0	9.0	7.11	768
DEC 20...	0930	100	8.3	1300	-3.5	.0	6.97	800
MAR 20...	0930	136	8.3	1290	7.0	6.0	7.06	750
APR 29...	0845	144	8.2	1350	13.0	13.5	7.12	813
MAY 30...	0830	90	8.2	1550	22.5	21.0	6.93	964
JUN 27...	0845	15	8.4	2180	23.0	22.0	6.45	1340
AUG 21...	0855	2.1	8.0	4010	23.0	21.5	--	2440

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1600	1150	1270	1300	1150	1120	1300	1310	1680	2510	3900	4960
2	1640	1180	1240	1240	1220	1180	1440	1320	1580	2560	---	5060
3	---	1160	1250	1240	1230	1660	810	1410	1240	2590	5620	4950
4	---	1180	1390	1160	1260	1260	620	1520	---	2600	5040	4850
5	---	1200	1270	1170	1560	1280	650	1650	1010	2610	4370	4770
6	1730	---	1240	1250	1480	1320	630	1780	1030	2650	---	---
7	1720	1170	1230	1450	1440	1370	650	1710	1040	2700	4170	4370
8	1770	1140	1190	1380	1500	1380	700	1780	1120	2730	2800	4130
9	1800	1150	1220	1440	1330	1660	700	1790	1280	2780	3030	3900
10	1500	1210	1130	1200	1770	1220	720	2010	1360	2820	5110	3280
11	1800	1210	1220	1450	1450	1090	750	2090	1430	2860	---	2340
12	1830	1220	1250	1420	1150	1160	780	1870	1290	2890	5550	3780
13	1060	1250	1270	1360	1290	1190	---	1650	1200	2920	4750	1010
14	1090	1220	1480	1240	1050	1170	820	1500	1250	2960	3740	1130
15	1100	1220	1370	1150	970	1170	810	---	1260	2990	2960	940
16	1080	1220	1360	1120	1240	1250	820	1650	1320	3020	2720	1500
17	1100	1220	1310	1350	1370	1210	820	1960	1430	3060	2820	1090
18	940	1230	1310	1580	1300	1150	840	1610	1530	3080	3220	1260
19	1140	1220	1420	1610	1150	1150	850	1510	1750	3130	3410	1170
20	1140	1230	1300	2030	1050	1260	930	1440	1830	3130	3690	---
21	1140	1230	1290	1460	1100	1250	960	---	---	3160	3920	1250
22	1150	1260	1330	1390	1060	1240	1080	1190	1900	3240	4100	1300
23	1150	1280	1360	1160	1070	1290	1180	1150	2000	3320	4210	1520
24	1170	1280	1360	1560	1040	1380	1200	1130	2100	3380	4050	1750
25	1200	1430	1440	1620	1090	1390	1330	1260	2160	---	---	---
26	1210	1600	---	1500	1140	1320	1310	1130	---	3320	2530	---
27	1220	1650	1230	1430	1290	1300	1390	1310	2250	3840	3650	1670
28	1210	1660	1400	1260	1190	1230	1510	1450	2280	---	4980	1700
29	1190	1340	1360	1140	---	1210	1380	1420	2310	3000	---	1730
30	1180	1230	1500	1210	---	---	1330	1570	2400	3880	---	1800
31	1160	---	1350	1370	---	1300	---	1740	---	3790	---	---
MEAN	1320	1270	1310	1360	1250	1270	976	1550	1590	3020	3930	2580

DOLORES RIVER BASIN

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09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	11.0	3.0	1.0	1.0	4.0	13.0	19.0	22.0	23.0	24.0	20.0
2	21.5	10.0	4.0	1.0	1.0	2.0	13.0	14.0	20.0	24.0	---	21.0
3	---	10.0	4.0	1.0	1.0	5.0	13.0	15.0	20.0	25.0	22.0	20.0
4	---	10.0	5.0	1.0	1.0	2.0	17.0	20.0	---	23.0	23.0	26.0
5	---	10.0	3.0	1.0	1.0	3.0	13.0	16.0	19.0	23.0	23.0	28.0
6	15.0	---	3.0	1.0	1.0	4.0	13.0	15.0	19.0	24.0	---	---
7	15.0	11.0	4.0	1.0	1.5	6.0	14.0	21.0	21.0	25.0	23.0	22.0
8	15.0	11.0	2.0	3.0	1.0	3.0	16.0	20.0	20.0	25.0	25.0	26.0
9	15.0	10.0	3.0	2.0	1.0	3.0	13.0	13.0	23.0	32.0	25.0	25.0
10	12.0	10.0	1.0	3.0	1.0	5.0	14.0	15.0	18.0	23.0	21.0	24.0
11	11.0	9.0	1.0	2.0	1.0	6.0	13.0	14.0	19.0	25.0	---	21.0
12	12.0	9.0	2.0	1.0	2.0	7.0	14.0	17.0	17.0	23.0	22.0	20.0
13	13.0	9.0	1.0	1.0	2.0	9.0	---	16.0	19.0	23.0	20.0	21.0
14	14.0	8.0	1.0	1.0	2.0	9.0	14.0	17.0	21.0	26.0	20.0	17.0
15	14.0	7.5	1.0	1.0	1.0	9.0	14.0	---	22.0	23.0	20.0	18.0
16	11.0	7.0	1.0	2.0	2.0	6.0	13.0	17.0	21.0	29.0	29.0	21.0
17	11.0	8.0	1.0	1.0	3.0	6.0	16.0	19.0	22.0	29.0	21.0	21.0
18	11.0	7.0	1.0	1.0	3.0	6.0	13.0	19.0	21.0	24.0	29.0	19.0
19	11.0	6.0	1.0	1.0	4.0	6.0	15.0	19.0	22.0	27.0	24.0	18.0
20	14.0	5.0	1.0	1.0	5.0	6.0	13.0	19.0	27.0	24.0	26.0	---
21	11.0	4.5	1.0	2.0	4.0	9.0	11.0	---	---	22.0	27.0	16.0
22	11.0	6.0	1.0	1.0	5.0	14.0	11.0	14.0	21.0	23.0	28.0	17.0
23	11.0	7.0	1.0	1.0	4.0	10.0	13.0	15.0	22.0	26.0	27.0	17.0
24	9.0	5.0	1.0	1.0	4.0	13.0	14.0	14.0	24.0	25.0	24.0	20.0
25	8.0	5.5	1.0	1.0	4.0	11.0	15.0	17.0	25.0	---	---	---
26	8.0	4.0	---	1.0	3.0	9.0	16.0	17.0	---	25.0	20.0	---
27	8.0	4.0	1.0	1.0	2.0	10.0	14.0	18.0	24.0	23.0	21.0	19.0
28	10.0	1.0	1.0	2.0	2.0	10.0	13.0	18.0	24.0	---	19.0	16.0
29	11.0	2.0	1.0	1.0	---	12.0	13.0	19.0	22.0	23.0	---	17.5
30	12.0	4.0	1.0	1.0	---	---	13.0	21.0	24.0	23.0	---	16.0
31	13.0	---	1.0	1.0	---	13.0	---	21.0	---	23.0	---	---
MEAN	12.3	7.3	1.8	1.3	2.3	7.3	13.7	17.2	21.4	24.6	23.5	20.2

COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UT

LOCATION.--Lat 38°48'38", long 109°17'34", in NW¹/₄NW¹/₄ sec. 17, T. 23 S., R. 24 E., Grand County, Hydrologic Unit 14030005, on left bank 1 mi downstream from Dolores River, 11 mi south of Cisco, 36 mi downstream from Colorado-Utah State line, 97 mi upstream from Green River, and 235 mi upstream from San Juan River, at mile 1,022.3 from Arizona-Sonora.

DRAINAGE AREA.--24,100 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1895 to current year (1895 to 1910, calendar-year estimates only). Monthly discharge only for some periods, published in WSP 1313. Published as Grand River near Moab, October 1913 to November 1914, and as Grand River near Cisco, November 1914 to September 1917.

REVISED RECORDS.--WSP 918: 1913, 1937. WSP 1313: 1918-22.

GAGE.--Water-stage recorder. Elevation of gage is 4,090 ft above NGVD of 1929, from river-profile map. Prior to November 10, 1914, several staff and chain gages at bridge near Moab, 31 mi downstream at datum, 3,937.73 ft above NGVD of 1929.

REMARKS.--Records good. Diversions above station for irrigation and power, including several transmountain diversions. Flow regulated by Blue Mesa Reservoir since November 27, 1965.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,800 ft³/s, Jun 19, 1917, gage height, 19.7 ft; minimum recorded, 558 ft³/s, Jul 21, 1934, gage height, 0.44 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood on Jul 4, 1884 reached a discharge of about 125,000 ft³/s, from flood record at Fruita, Colorado.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 26,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 30	0115	*6,540	*3.88				

Minimum discharge, 1,300 ft³/s, Aug 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2930	3390	2650	2800	e2540	e2260	3090	2150	3550	1620	1470	1620
2	2870	3760	2760	2750	e2470	2300	3390	1920	4490	1680	1340	1560
3	2830	3680	2960	2650	e2450	2320	3330	2230	4580	1840	1410	1530
4	2800	3460	3010	2450	e2400	e2270	3400	2400	4500	1720	1510	1560
5	2830	3350	3030	2370	e2340	e2150	3470	2180	4130	1700	1520	1480
6	2770	3400	3030	2380	e2280	e2200	3800	1880	3560	1750	1770	1440
7	2700	3400	2890	2630	e2220	2360	3900	1960	3130	2190	2230	1990
8	2770	3380	2820	2750	e2200	2490	3670	2270	3010	2170	2190	2770
9	3430	3470	2820	2810	e2230	2610	3460	2720	3080	1960	2110	2110
10	4560	3690	2660	2790	e2260	2580	3200	3010	3040	1780	2090	2050
11	4120	3400	2590	2770	e2290	e2250	3160	2620	2990	1820	2060	2270
12	3900	3270	2730	2730	e2320	2420	3490	2370	2870	1780	1800	2810
13	3890	3180	2800	2610	e2350	2510	3630	2270	2590	1670	1610	4550
14	3890	3190	2670	2540	2370	2490	3230	2260	2410	1580	1470	3240
15	3890	3160	2600	2500	2490	2920	2900	2200	2170	1480	1400	2980
16	3910	3110	e2500	e2400	2480	2650	2940	2170	2030	1420	1410	2870
17	3750	3160	e2540	e2370	2620	2500	3300	2470	1980	1420	1400	2950
18	3690	3130	e2500	e2370	2570	2420	3220	3000	1960	1450	1410	2920
19	3620	3040	e2460	e2270	2530	2380	2820	3130	1840	1400	1420	3360
20	3460	3000	e2430	e2300	2620	2330	2420	3240	1660	1440	1400	3250
21	3420	2980	e2400	e2350	2590	2310	e2160	3730	1580	1520	1680	3120
22	3400	2940	e2370	e2350	2530	2390	2300	3850	1580	1580	1860	2990
23	3420	3050	e2340	e2300	2450	2560	2360	4100	1570	1660	1900	2700
24	3380	3220	e2300	e2270	2410	2690	e2160	3770	1590	1670	1910	2500
25	3380	3220	e2260	e2240	2440	2760	e2160	3420	1580	1640	1850	2190
26	3390	3200	e2200	2210	2420	2710	e2160	3120	1490	1630	1650	2040
27	3450	3200	2230	e2120	2320	2780	2380	2740	1460	1750	1550	2090
28	3390	3090	e2340	e2700	e2150	2680	2590	2510	1480	1890	1450	2130
29	3330	2920	e2450	2760	---	2570	2630	2470	1600	1880	1470	2700
30	3310	2820	2570	e2650	---	2590	2410	2560	1610	1750	1690	3740
31	3300	---	2740	e2600	---	2720	---	2860	---	1580	1600	---
TOTAL	105780	97260	80650	77790	67340	77170	89130	83580	75110	52420	51630	75510
MEAN	3412	3242	2602	2509	2405	2489	2971	2696	2504	1691	1665	2517
MAX	4560	3760	3030	2810	2620	2920	3900	4100	4580	2190	2230	4550
MIN	2700	2820	2200	2120	2150	2150	2160	1880	1460	1400	1340	1440
AC-FT	209800	192900	160000	154300	133600	153100	176800	165800	149000	104000	102400	149800

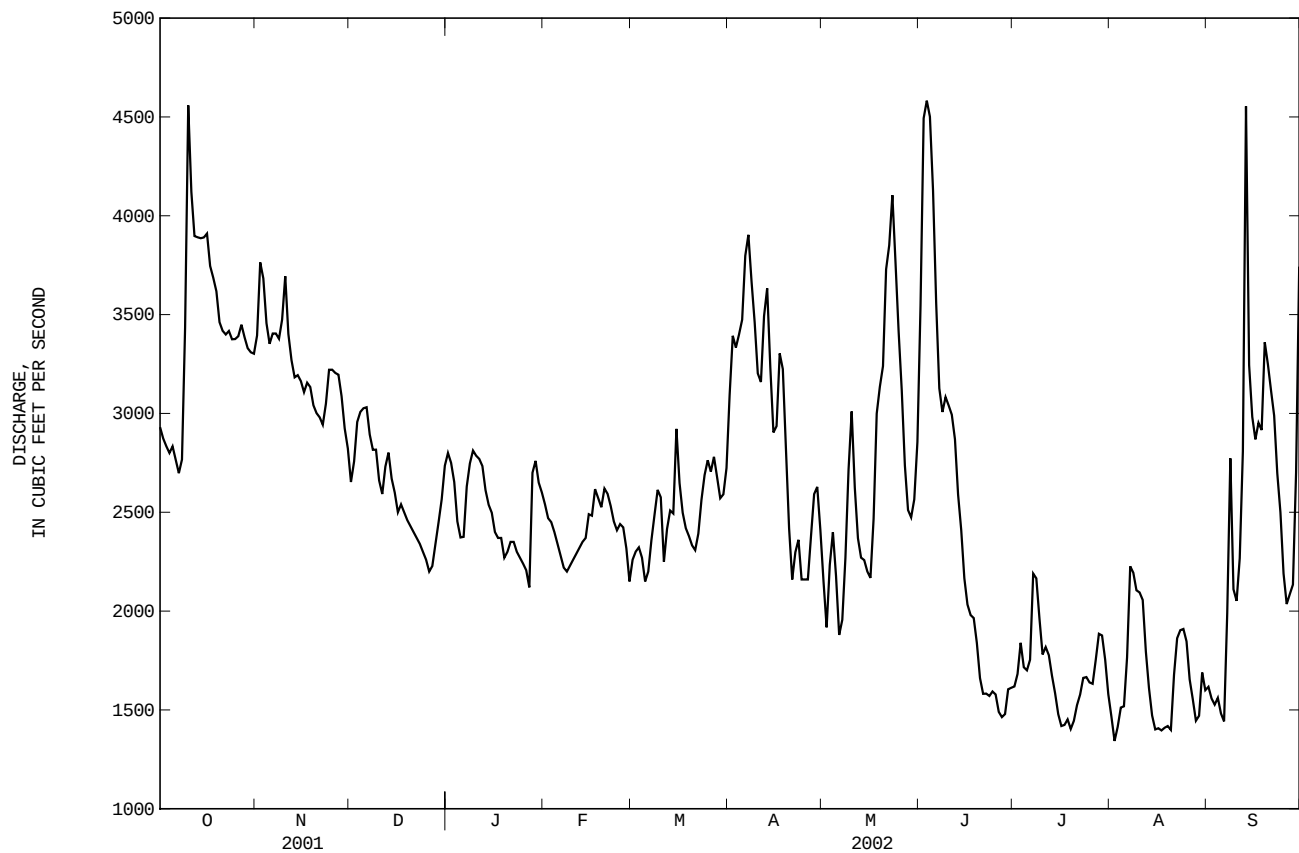
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2002, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
MEAN	4026	3840	3313	3106	3267
MAX	9416	7601	6588	6371	6326
(WY)	1942	1987	1987	1985	1985
MIN	1353	1730	2044	1900	2015
(WY)	1935	1935	1940	1937	1935

09180500 COLORADO RIVER NEAR CISC0, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1914 - 2002	
ANNUAL TOTAL	1491510		933370		7311	
ANNUAL MEAN	4086		2557		14930	
HIGHEST ANNUAL MEAN					2563	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	13700	May 18	4580	Jun 3	73200	Jun 19 1917
LOWEST DAILY MEAN	2200	Dec 26	1340	Aug 2	640	Jul 21 1934
ANNUAL SEVEN-DAY MINIMUM	2290	Dec 22	1420	Aug 14	736	Jul 15 1934
ANNUAL RUNOFF (AC-FT)	2958000		1851000		5297000	
10 PERCENT EXCEEDS	7470		3440		18300	
50 PERCENT EXCEEDS	3380		2500		3880	
90 PERCENT EXCEEDS	2540		1580		2250	

e Estimated



COLORADO RIVER MAIN STEM

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1941 to September 1952, October 1954 to September 1981, March 1982 to current year.

WATER TEMPERATURE: May 1949 to September 1959, October 1964 to September 1981, March 1982 to current year.

SUSPENDED-SEDIMENT DISCHARGE: May 1930 to September 1984.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 4,820 microsiemens, Dec 13, 1957; minimum daily, 291 microsiemens, May 31, 1953.

WATER TEMPERATURE: Maximum observed, 29.0°C, Jul 29, 1966; minimum, 0.0°C, on many days during winter period most years.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 69,000 mg/L, Oct 27, 1951; minimum daily mean, 4 mg/L, Aug 22, 1960.

SEDIMENT LOADS: Maximum daily, 2,790,000 tons, Oct 14, 1941; minimum daily, 14 tons, Aug 22, 1960.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum observed, 2,270 microsiemens, Sep 15; minimum observed, 840 microsiemens, Jun 4, 5.

WATER TEMPERATURE: Maximum observed, 26.0°C, Jul 19, 20; minimum observed, 0.0°C, on many days in Dec, Jan, Feb.

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

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	GAGE HEIGHT (FEET) (00065)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
NOV 26...	0845	3210	8.3	1270	-2.0	4.5	2.40	836
JAN 07...	1115	2620	8.4	1270	3.0	1.0	2.08	804
FEB 15...	0850	2500	8.4	1200	-7.0	.5	1.95	768
MAR 29...	0800	2610	8.3	1110	5.0	10.0	2.03	703
MAY 07...	0830	1910	8.1	1120	15.0	16.5	1.61	724
JUN 17...	0830	1940	8.3	1160	23.0	22.0	1.67	761
JUL 24...	0800	1620	8.3	1390	25.0	24.0	1.46	965
AUG 30...	0810	1760	7.6	1660	14.5	18.5	1.45	1200

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1200	1200	1220	1270	1230	1260	1130	1100	1180	1460	1390	1580
2	1210	1190	1270	1240	1230	1230	1110	1140	1070	1340	1400	1540
3	1230	1180	1290	1230	1260	1230	1030	1150	910	1340	1450	1530
4	1240	1190	1340	1200	1240	1250	990	1170	840	1320	1500	1540
5	1250	1190	1340	1210	1230	1260	1020	1170	840	1300	1440	1550
6	1250	1190	1310	1230	1260	1250	960	1140	870	1310	1440	1540
7	1280	1200	1290	1230	1270	1220	920	1160	930	1300	1440	1560
8	1270	1220	1260	1280	1260	1270	870	1200	1020	1290	1540	1460
9	1290	1210	1250	1250	1270	1260	860	1230	1070	1280	1470	2000
10	1380	1200	1270	1220	1260	1260	850	1160	1090	1260	1430	1640
11	1320	1220	1300	1180	1260	1190	850	1080	1080	1320	1480	1630
12	1330	1250	1310	1180	1270	1200	870	1090	1070	1310	1430	1830
13	1310	1230	1280	1180	1260	1210	850	1100	1060	1310	1440	1220
14	1260	1220	1310	1190	1230	1220	860	1130	1070	1310	1460	1440
15	1240	1240	1300	1190	1240	1260	870	1210	1100	1330	1490	2270
16	1220	1230	1310	1210	1260	1230	900	1220	1140	1350	1530	1630
17	1210	1310	1290	1240	1220	1230	970	1230	1180	1360	1530	1600
18	1200	1280	1300	1240	1210	1210	960	1210	1220	1360	1530	1630
19	1210	1210	1330	1250	1200	1200	950	1150	1220	1390	1540	1470
20	1210	1200	1310	1290	1180	1210	970	1080	1280	1370	1510	1580
21	1220	1230	1280	1280	1180	1210	1010	1070	1320	1370	1500	1520
22	1230	1260	1330	1260	1200	1220	1070	1020	1330	1380	1480	1570
23	1240	1230	1300	1220	1190	1210	1120	950	1360	1410	1430	1560
24	1250	1250	1300	1260	1200	1210	1150	930	1360	1390	1430	1570
25	1260	1260	1260	1280	1200	1200	1150	960	1360	1380	1470	1580
26	1250	1280	1280	1270	1210	1230	1150	990	1350	1370	1500	1590
27	1250	1270	1310	1260	1220	1150	1190	1060	1360	1350	1480	1610
28	1240	1270	1320	1220	1220	1120	1210	1130	1360	1370	1480	---
29	1230	1270	1330	1220	---	1110	1160	1170	1370	1340	1530	1640
30	1230	1250	1330	1260	---	1140	1100	1210	1380	1390	1540	1560
31	1240	---	1320	1230	---	1120	---	1220	---	1350	1560	---
MEAN	1250	1230	1300	1230	1230	1210	1000	1120	1160	1350	1480	1600

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	8.0	2.0	2.0	0.0	5.0	14.0	16.0	23.0	25.0	24.0	21.0
2	14.0	8.0	2.0	2.0	0.0	5.0	14.0	16.0	23.0	25.0	24.0	21.0
3	14.0	8.0	2.0	2.0	0.0	5.0	14.0	16.0	23.0	25.0	24.0	21.0
4	14.0	8.0	2.0	2.0	0.0	5.0	14.0	16.0	23.0	25.0	24.0	21.0
5	12.0	8.0	2.0	2.0	0.0	5.0	14.0	16.0	23.0	25.0	24.0	21.0
6	12.0	8.0	2.0	2.0	0.0	5.0	14.0	16.0	23.0	25.0	24.0	21.0
7	11.0	8.0	2.0	2.0	0.0	6.0	14.0	16.0	23.0	25.0	23.0	21.0
8	11.0	8.0	2.0	2.0	0.0	6.0	14.0	16.0	23.0	25.0	23.0	21.0
9	11.0	8.0	2.0	2.0	0.0	6.0	14.0	16.0	23.0	25.0	23.0	21.0
10	11.0	8.0	2.0	2.0	0.0	6.0	14.0	16.0	23.0	25.0	23.0	21.0
11	11.0	8.0	2.0	2.0	1.0	6.0	14.0	16.0	23.0	25.0	23.0	21.0
12	11.0	8.0	2.0	2.0	0.0	6.0	14.0	16.0	23.0	25.0	23.0	21.0
13	10.0	8.0	2.0	2.0	0.0	6.0	14.0	16.0	23.0	25.0	23.0	21.0
14	9.0	7.0	2.0	2.0	0.0	7.0	14.0	16.0	23.0	25.0	23.0	20.0
15	9.0	7.0	2.0	2.0	0.0	7.0	14.0	16.0	24.0	25.0	23.0	20.0
16	9.0	7.0	0.0	2.0	0.0	7.0	14.0	16.0	24.0	25.0	23.0	20.0
17	9.0	5.0	0.0	0.0	1.0	8.0	15.0	16.0	24.0	25.0	22.0	20.0
18	9.0	5.0	0.0	0.0	1.0	8.0	15.0	16.0	24.0	25.0	22.0	20.0
19	9.0	5.0	0.0	0.0	3.0	8.0	15.0	16.0	24.0	26.0	22.0	20.0
20	9.0	5.0	0.0	0.0	3.0	9.0	15.0	16.0	25.0	26.0	22.0	18.0
21	9.0	4.0	0.0	0.0	5.0	9.0	15.0	16.0	25.0	25.0	22.0	18.0
22	9.0	4.0	0.0	0.0	5.0	9.0	15.0	16.0	25.0	25.0	22.0	18.0
23	9.0	4.0	0.0	0.0	5.0	10.0	15.0	16.0	25.0	25.0	24.0	18.0
24	9.0	4.0	0.0	0.0	5.0	11.0	15.0	16.0	25.0	25.0	22.0	18.0
25	9.0	4.0	0.0	0.0	5.0	11.0	15.0	16.0	25.0	25.0	22.0	18.0
26	9.0	4.0	0.0	0.0	5.0	12.0	15.0	18.0	25.0	25.0	22.0	17.0
27	8.0	2.0	0.0	0.0	5.0	12.0	15.0	20.0	25.0	25.0	21.0	17.0
28	8.0	2.0	0.0	0.0	5.0	12.0	15.0	21.0	25.0	25.0	21.0	---
29	8.0	2.0	0.0	0.0	---	12.0	15.0	21.0	25.0	25.0	21.0	17.0
30	8.0	3.0	0.0	0.0	---	14.0	15.0	22.0	25.0	25.0	21.0	17.0
31	8.0	---	0.0	0.0	---	14.0	---	22.0	---	25.0	21.0	---
MEAN	10.1	5.9	1.0	1.0	1.8	8.1	14.5	16.9	23.9	25.1	22.6	19.6

09182400 CASTLE CREEK BELOW CASTLE VALLEY, NEAR MOAB, UT

LOCATION.--Lat 38°40'26", long 109°26'58", in SE¹/₄SW¹/₄NE¹/₄ sec. 35, T. 24 S., R. 22 E., Grand County, Hydrologic Unit 14030005, on left bank and 16.5 mi northwest of Moab.

DRAINAGE AREA.--58.1 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 4,120 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Small diversions for irrigation above and below the station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 296 ft³/s, Jul 28, 1998, gage height, 7.43 ft; minimum daily discharge, 3.1 ft³/s, Jun 5, 2000.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
(a)Nov 30	1745	*9.8	*5.53				

Minimum daily discharge, 3.2 ft³/s, Aug 8.

(a)Higher peak may have occurred during missing record.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	4.4	7.1	6.8	6.7	6.9	e6.8	e4.3	e4.1	e3.7	e3.4	e3.4
2	4.2	4.3	7.4	6.8	6.7	6.8	e6.6	e4.4	e4.1	e3.7	e3.4	e3.4
3	4.2	4.6	7.1	6.7	6.8	6.9	e6.5	e4.5	e4.0	e3.7	e3.5	e3.9
4	4.3	5.0	7.4	6.8	6.8	6.9	e6.4	e4.3	e4.0	e3.8	e3.4	e3.8
5	4.3	5.1	7.0	6.8	6.7	6.8	e6.5	e4.2	e4.0	e3.8	e3.3	e3.8
6	4.6	4.5	6.9	6.8	6.7	6.8	e7.0	e4.1	e4.0	e3.7	e3.3	e4.2
7	4.6	4.3	7.0	6.8	6.7	6.9	e6.7	e4.1	e4.0	e3.8	e3.3	e4.1
8	4.5	4.2	6.8	6.8	6.7	6.8	e6.8	e4.1	e4.1	e3.8	e3.2	e4.0
9	5.1	4.4	6.6	6.9	6.7	6.8	e6.8	e4.1	e4.2	e3.9	e3.3	e4.0
10	5.0	4.7	6.6	6.8	6.8	6.8	e6.6	e4.1	e4.1	e4.0	e3.4	e4.1
11	4.6	4.9	6.9	6.8	6.8	6.8	e6.9	e4.0	e4.0	e3.9	e3.4	e4.1
12	4.4	5.1	6.8	6.8	6.8	6.8	e6.8	e4.0	e4.0	e3.7	e3.3	e4.6
13	4.6	6.3	6.6	6.8	6.7	6.8	e6.5	e3.9	e4.1	e3.5	e3.3	e4.4
14	4.9	7.0	6.7	6.9	6.7	6.8	e6.1	e3.9	e4.1	e3.8	e3.4	e4.4
15	4.8	7.1	6.7	6.8	6.7	6.8	e5.5	e3.9	e4.1	e4.0	e3.4	e4.3
16	4.9	7.3	6.6	6.8	6.8	6.8	e5.3	e3.9	e4.0	e3.7	e3.5	e4.3
17	5.0	7.4	6.6	6.7	6.9	7.1	e5.2	e3.9	e4.0	e3.5	e3.5	e5.1
18	5.1	7.4	6.7	6.7	7.1	7.2	e5.0	e3.9	e4.0	e3.5	e3.5	e5.9
19	4.7	7.6	6.6	6.7	6.9	7.1	e4.8	e4.0	e4.0	e3.6	e3.4	e5.6
20	4.8	7.4	6.7	6.7	6.8	7.0	e4.7	e4.1	e3.9	e3.5	e4.1	e5.4
21	4.8	6.8	6.7	6.8	6.8	6.9	e4.6	e4.1	e3.9	e3.4	e4.0	e5.2
22	4.6	7.1	6.8	6.9	6.8	6.8	e4.6	e4.2	e3.9	e3.4	e3.8	e5.1
23	4.6	7.3	6.6	6.9	6.9	6.8	e4.7	e4.2	e3.9	e3.4	e3.7	e5.0
24	4.4	6.9	6.6	6.8	6.8	6.7	e4.5	e4.2	e3.8	e3.4	e3.5	e5.0
25	4.4	7.4	6.6	6.7	6.8	6.7	e4.6	e4.2	e3.8	e3.4	e3.5	e4.9
26	4.4	6.8	6.6	6.7	6.7	e6.6	e4.4	e4.0	e3.9	e3.4	e3.4	e4.9
27	4.5	6.7	6.7	6.8	6.8	e6.5	e4.3	e4.0	e3.8	e3.6	e3.4	e4.8
28	e4.5	6.5	6.7	6.9	6.8	e6.6	e4.3	e4.0	e3.8	e3.7	e3.4	e4.8
29	e4.6	6.6	6.8	7.0	---	e6.8	e4.3	e4.0	e3.7	e3.6	e3.3	e5.5
30	e4.6	7.2	6.9	6.9	---	e6.7	e4.3	e4.0	e3.6	e3.5	e3.3	e5.2
31	4.8	---	6.9	6.7	---	e7.0	---	e4.1	---	e3.5	e3.3	---
TOTAL	143.1	182.3	210.7	210.8	189.9	211.7	168.1	126.7	118.9	112.9	106.9	137.2
MEAN	4.616	6.077	6.797	6.800	6.782	6.829	5.603	4.087	3.963	3.642	3.448	4.573
MAX	5.1	7.6	7.4	7.0	7.1	7.2	7.0	4.5	4.2	4.0	4.1	5.9
MIN	4.2	4.2	6.6	6.7	6.7	6.5	4.3	3.9	3.6	3.4	3.2	3.4
AC-FT	284	362	418	418	377	420	333	251	236	224	212	272

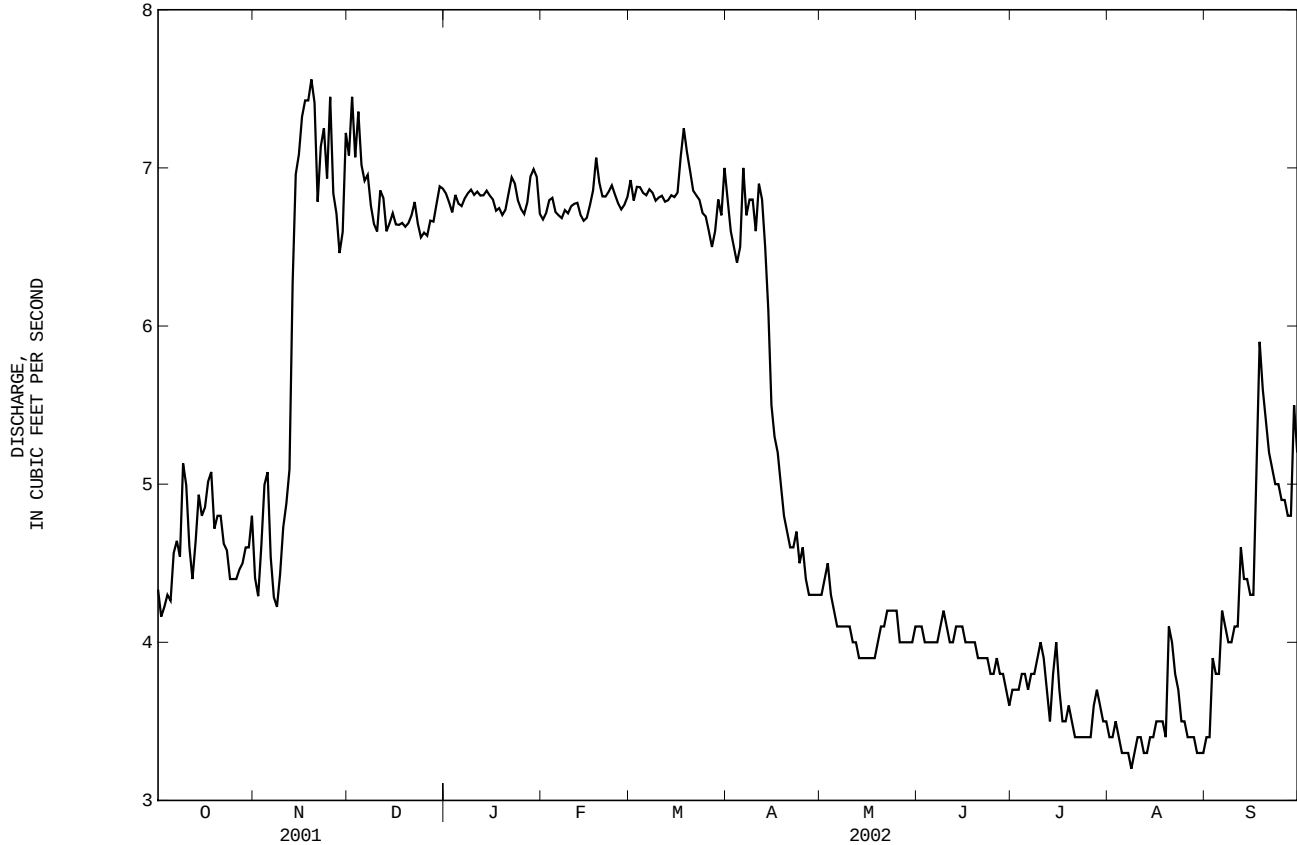
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	6.371	7.635	7.319	7.154	7.038	7.190	6.319	6.374	6.614	5.246	4.762	5.376
MAX	8.33	8.95	8.36	8.53	8.37	8.77	8.43	17.2	15.4	9.85	6.72	7.50
(WY)	1998	1998	1996	1993	1998	1998	1993	1993	1993	1995	1997	1997
MIN	4.09	6.08	6.62	5.64	6.19	6.28	5.16	3.93	3.48	3.31	3.45	3.62
(WY)	2001	2002	2001	1999	2000	2000	2000	2000	2000	1994	2002	2000

09182400 CASTLE CREEK BELOW CASTLE VALLEY, NEAR MOAB, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1992 - 2002	
ANNUAL TOTAL	1923.2		1919.2		6.441	
ANNUAL MEAN	5.269		5.258		8.84	
HIGHEST ANNUAL MEAN					5.10	
LOWEST ANNUAL MEAN					34	
HIGHEST DAILY MEAN	7.6	Nov 19	7.6	Nov 19	34	May 27 1993
LOWEST DAILY MEAN	3.2	Aug 6	3.2	Aug 8	3.1	Jun 5 2000
ANNUAL SEVEN-DAY MINIMUM	3.3	Aug 4	3.3	Aug 4	3.2	Jul 7 1994
ANNUAL RUNOFF (AC-FT)	3810		3810		4670	
10 PERCENT EXCEEDS	7.0		6.9		8.4	
50 PERCENT EXCEEDS	4.7		4.8		6.4	
90 PERCENT EXCEEDS	3.7		3.5		3.8	

e Estimated



LOCATION.--Lat 38°28'59", long 109°24'12", in NW¹/₄NW¹/₄SW¹/₄, sec. 4, T. 27 S., R. 23 E. in San Juan County, Hydrologic Unit 14030005 on the left bank 1,000 ft above Sheley Tunnel, and 9 mi southeast of Moab.

PERIOD OF RECORD.--October 1954 to September 1959, October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,500 ft above NGVD of 1929, from a topographic map. Prior to October 1, 1987 at different site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Small diversion for irrigation above the station. Sheley Tunnel, which diverts water from Mill Creek for K. E. McDougald Reservoir, is located 1,000 ft below the gage.

EXTREMES FOR PERIOD OF RECORD. Maximum discharge, 1,080 ft³/s, Aug 8, 1993, gage height, 7.66 ft from floodmarks, from rating curve extended above 340 ft³/s, on basis of slope-area measurement of peak flow; minimum recorded, 2.1 ft³/s, Apr 5, 1955 and Aug 26, 27, 28, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 11	1645	*149	*3.73	No other peak greater than base discharge.			

Minimum daily discharge, 2.2 ft³/s, Aug 26, 27, 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	5.1	5.4	4.9	e4.5	4.2	5.3	6.9	6.2	3.2	2.7	2.3
2	6.0	5.5	5.8	4.7	4.7	e4.1	5.5	6.5	6.1	3.0	2.7	2.3
3	6.0	5.3	5.7	4.9	e4.7	e4.0	5.6	6.2	6.2	3.0	2.7	2.3
4	6.0	5.5	5.7	4.9	e4.7	e4.2	5.7	6.1	6.1	3.2	2.7	2.4
5	6.0	6.0	5.5	4.8	4.6	4.2	6.0	6.1	5.7	3.1	2.8	2.3
6	6.0	6.0	5.4	4.9	e4.6	4.2	6.4	6.2	5.5	2.9	2.8	3.8
7	6.0	6.0	5.4	4.8	e4.7	4.2	6.4	6.4	5.4	2.8	2.8	9.3
8	5.9	6.2	4.8	4.9	4.7	4.3	6.5	6.5	5.3	2.8	2.7	5.3
9	6.5	6.0	5.3	5.0	4.6	4.2	6.5	6.2	5.1	2.8	2.6	4.3
10	6.1	6.0	5.4	4.9	e4.6	4.2	6.9	6.1	5.1	2.7	2.5	3.5
11	6.1	5.9	5.4	e4.5	e4.5	4.2	7.5	5.9	4.8	2.6	2.4	11
12	5.8	5.8	5.2	4.9	4.6	4.2	7.2	7.0	4.7	2.5	2.4	4.1
13	5.8	5.8	e5.3	4.8	4.5	4.3	6.9	7.0	4.5	2.5	2.4	3.7
14	5.6	5.8	e5.2	3.6	4.3	4.2	7.2	6.9	4.3	2.5	2.4	3.5
15	5.5	5.8	5.4	5.1	4.2	4.1	7.7	6.8	4.2	2.5	2.4	3.4
16	5.5	5.7	e5.0	4.8	4.2	4.2	8.1	6.8	4.0	2.6	2.3	3.4
17	5.2	5.7	e5.1	e4.6	4.2	4.2	7.4	6.8	3.9	2.6	2.3	3.9
18	5.2	5.7	5.3	e4.7	4.3	4.2	7.3	7.0	3.8	2.6	2.3	4.5
19	5.2	5.6	e5.2	e4.5	e4.3	4.1	7.4	7.3	3.7	2.6	2.3	3.9
20	5.2	5.6	5.1	4.7	e4.2	4.2	7.7	7.6	3.7	2.6	2.8	3.7
21	5.2	5.7	5.1	4.9	4.1	4.2	7.1	8.0	3.6	2.6	2.6	3.5
22	5.3	5.9	5.0	4.9	4.1	4.4	6.7	7.5	3.6	2.6	2.5	3.4
23	5.3	6.7	e5.0	4.8	4.2	4.5	6.6	7.1	3.6	2.7	2.4	3.3
24	5.3	5.6	e5.0	e4.5	4.2	4.4	7.1	6.7	3.4	2.7	2.3	3.2
25	5.2	5.6	e5.0	e4.5	4.1	4.3	7.5	6.3	3.3	2.7	2.3	3.2
26	5.0	5.2	e4.9	e4.6	3.9	4.2	8.2	6.0	3.3	3.4	2.2	3.3
27	5.0	4.7	5.1	4.7	e4.1	4.4	8.0	5.8	3.3	3.2	2.2	3.2
28	5.1	e4.8	5.0	4.7	4.3	4.5	6.5	5.7	3.3	2.9	2.2	3.2
29	5.1	5.0	5.0	4.7	---	4.7	6.4	5.6	3.2	2.9	2.4	4.8
30	5.0	5.3	5.0	4.6	---	4.9	6.8	5.7	3.2	2.8	2.5	3.6
31	5.1	---	4.9	e4.6	---	5.1	---	6.0	---	2.7	2.4	---
TOTAL	172.2	169.5	161.6	146.4	122.7	133.3	206.1	202.7	132.1	86.3	77.0	117.6
MEAN	5.555	5.650	5.213	4.723	4.382	4.300	6.870	6.539	4.403	2.784	2.484	3.920
MAX	6.5	6.7	5.8	5.1	4.7	5.1	8.2	8.0	6.2	3.4	2.8	11
MIN	5.0	4.7	4.8	3.6	3.9	4.0	5.3	5.6	3.2	2.5	2.2	2.3
AC-FT	342	336	321	290	243	264	409	402	262	171	153	233

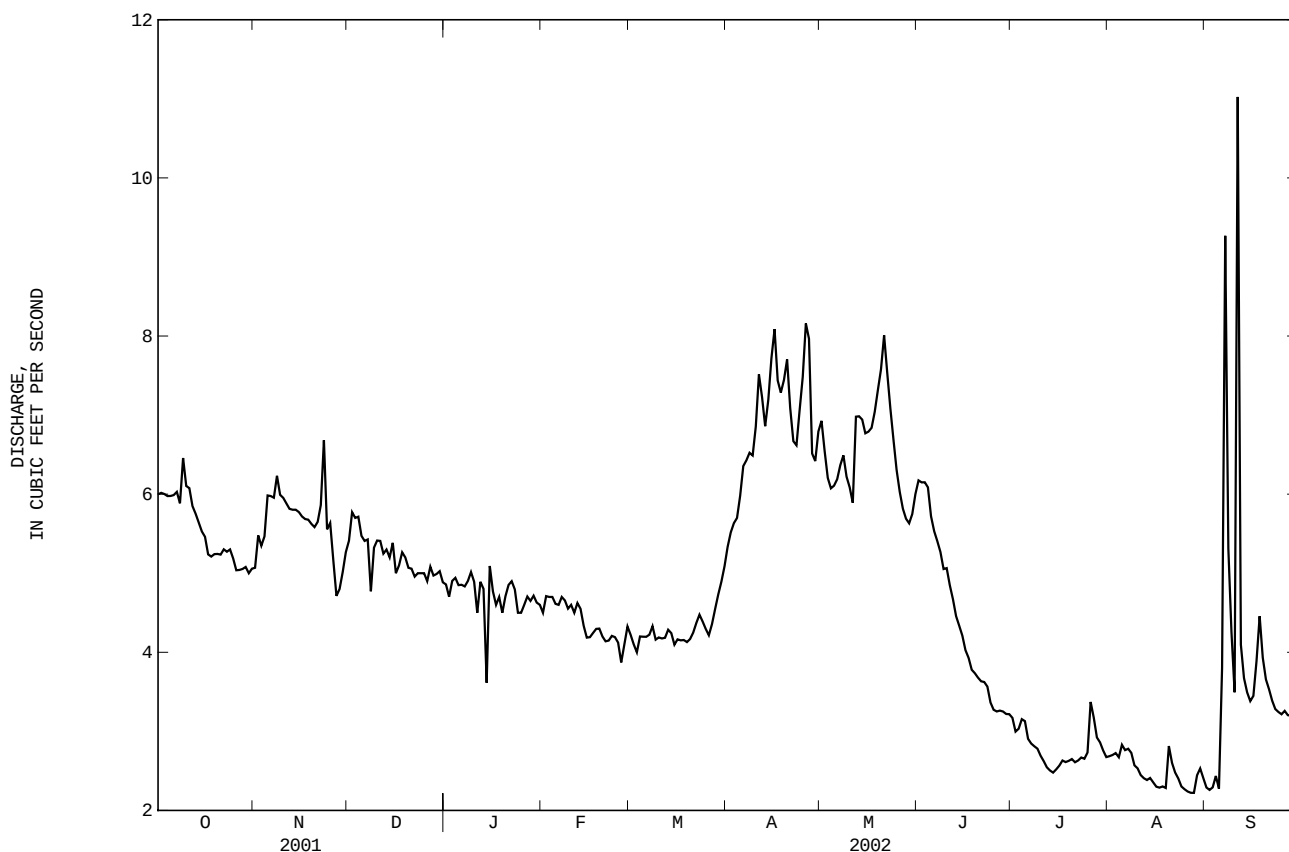
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955-59, 1988-2002, BY WATER YEAR (WY)

MEAN	8.386	7.380	6.681	6.122	5.728	6.307	10.81	27.05	25.91	13.95	9.966	8.489
MAX	15.4	15.6	11.0	8.82	8.06	9.43	22.2	70.5	67.9	40.7	18.7	13.5
(WY)	1998	1988	1988	1988	1988	1988	1958	1958	1957	1995	1993	1993
MIN	4.84	3.89	4.30	4.60	4.38	4.30	5.42	6.54	4.40	2.78	2.48	3.92
(WY)	1957	1957	1955	1957	2002	2002	1990	2002	2002	2002	2002	2002

09183500 MILL CREEK AT SHELEY TUNNEL, NEAR MOAB, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1955-59, 1988-2002
ANNUAL TOTAL	3294.5	1727.5	
ANNUAL MEAN	9.026	4.733	11.42
HIGHEST ANNUAL MEAN			20.4 1993
LOWEST ANNUAL MEAN			4.73 2002
HIGHEST DAILY MEAN	38 May 15	11 Sep 11	141 May 27 1993
LOWEST DAILY MEAN	3.9 Feb 9	2.2 Aug 26	2.2 Aug 26 2002
ANNUAL SEVEN-DAY MINIMUM	4.4 Feb 9	2.3 Aug 23	2.3 Aug 23 2002
ANNUAL RUNOFF (AC-FT)	6530	3430	8270
10 PERCENT EXCEEDS	17	6.5	22
50 PERCENT EXCEEDS	6.0	4.8	7.4
90 PERCENT EXCEEDS	4.6	2.6	4.8

e Estimated



GREEN RIVER BASIN

09217000 GREEN RIVER NEAR GREEN RIVER, WY

LOCATION.--Lat 41°30'59", long 109°26'54", in NW¹/₄ NE¹/₄ NE¹/₄ sec.26, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, on right bank 0.1 mi downstream from Bitter Creek, 1.0 mi southeast of town of Green River, and 4.0 mi upstream from high-water line of Flaming Gorge Reservoir.

DRAINAGE AREA.--14,000 mi², of which 4,260 mi², including 3,959 mi² in Great Divide Basin in southern Wyoming, probably is noncontributing.

PERIOD OF RECORD.--April 1951 to current year.

REVISED RECORDS.--WSP 1713: 1957. WDR-76-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,060 ft above NGVD of 1929, from topographic map. National Weather Service data collection platform with satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulation by Fontenelle Reservoir (station 09211150) since August 1963. Natural flow of stream affected by transbasin diversions, storage reservoirs, power generation, and diversions for irrigation of about 223,000 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 22,200 ft³/s, Jun 19, 1918, at site 1.5 mi upstream.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	490	e500	e420	e490	e460	e480	777	446	773	822	499	822
2	493	e500	e430	e480	e480	e480	757	485	765	789	507	780
3	492	e500	e430	e480	e480	e480	747	443	735	578	526	695
4	490	e500	e430	e480	e480	e480	833	517	719	507	525	663
5	497	e500	e430	e480	e490	e480	809	608	718	504	524	580
6	523	e490	e430	e480	e490	e490	800	744	717	499	531	599
7	544	e470	e430	e490	e490	e490	737	911	720	493	529	647
8	530	e460	e440	e490	e480	e500	734	1160	722	496	525	676
9	535	e430	e440	e505	e480	e490	732	1380	742	484	491	641
10	530	e420	e440	e501	e480	e500	722	1420	729	478	484	623
11	533	e420	e450	e490	e490	e500	587	1470	737	467	501	594
12	536	e420	e440	e490	e490	e480	457	1480	727	454	500	599
13	538	e410	e450	e490	e490	e490	456	1480	728	457	501	604
14	538	e400	e460	e490	e490	e490	426	1480	721	466	512	563
15	525	e390	e450	e480	e480	e490	421	1470	731	e433	507	580
16	521	e400	e450	e480	e500	e500	413	1450	717	e430	492	594
17	481	e390	e450	e480	e490	e500	411	1270	717	e440	496	587
18	e490	e400	e460	e480	e500	e500	453	1100	712	e460	491	551
19	e500	e400	e470	e490	e510	e500	455	1090	744	e480	482	549
20	e490	e397	e480	e490	e500	e520	501	1140	747	e495	495	542
21	e490	e400	e490	e480	e490	e540	502	1210	737	e500	490	529
22	e490	e400	e500	e480	e490	e520	519	1160	731	e510	513	519
23	e490	e390	e500	e480	e490	e520	482	1190	762	e510	522	530
24	e500	e390	e520	e480	e490	e520	447	1190	698	e515	525	530
25	e500	e390	e520	e480	e490	e520	435	1160	668	e515	537	519
26	e490	e400	e510	e490	e490	e520	434	1170	679	e515	509	564
27	e490	e400	e500	e500	e500	e530	504	1140	750	e515	480	535
28	e500	e400	e490	e500	e490	e550	533	1150	783	e510	472	552
29	e500	e410	e490	e480	---	e600	500	1070	776	e510	531	554
30	e500	e410	e490	e480	---	733	442	913	813	506	670	575
31	e490	---	e480	e400	---	746	---	781	---	519	789	---
TOTAL	15716	12787	14370	14986	13680	16139	17026	33678	22018	15857	16156	17896
MEAN	507.0	426.2	463.5	483.4	488.6	520.6	567.5	1086	733.9	511.5	521.2	596.5
MAX	544	500	520	505	510	746	833	1480	813	822	789	822
MIN	481	390	420	400	460	480	411	443	668	430	472	519
AC-FT	31170	25360	28500	29720	27130	32010	33770	66800	43670	31450	32050	35500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2002, BY WATER YEAR (WY)

	MEAN	963.1	851.3	735.9	754.4	824.6	1032	1612	2553	4741	3183	1548	1120
MAX	3109	1844	1419	1442	1980	1852	3416	5665	11700	9415	3577	7746	
(WY)	1983	1984	1972	1996	1974	1974	1962	1952	1986	1986	1982	1965	
MIN	279	281	272	266	267	350	516	434	414	368	372	251	
(WY)	1989	1989	1989	1989	1989	1989	1968	1992	1977	1977	1977	1988	

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1952 - 2002
ANNUAL TOTAL	243358	210309	--
ANNUAL MEAN	666.7	576.2	1662
HIGHEST ANNUAL MEAN	--	--	3089
LOWEST ANNUAL MEAN	--	--	576
HIGHEST DAILY MEAN	1600	Apr 30	16700
LOWEST DAILY MEAN	390	Nov 15	170
ANNUAL SEVEN-DAY MINIMUM	395	Nov 19	214
MAXIMUM PEAK FLOW	--	1550	16800 ^a
MAXIMUM PEAK STAGE	--	2.28	8.53 ^a
ANNUAL RUNOFF (AC-FT)	482700	417100	1204000
10 PERCENT EXCEEDS	920	776	3640
50 PERCENT EXCEEDS	610	500	1080
90 PERCENT EXCEEDS	450	434	459

a Caused by emergency release from Fontenelle Reservoir.

e Estimated.

09217900 BLACKS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 40°57'33", long 110°34'46", in SW¹/₄ SW¹/₄ SW¹/₄ sec.27, T.3 N., R.12 E., Summit County, Utah, Hydrologic Unit 14040107, on left bank 1 mi downstream from East Fork, 2.7 mi south of Utah-Wyoming State line, and 18 mi south of Robertson.

DRAINAGE AREA.--130 mi².

PERIOD OF RECORD.--October 1937 to July 1939 (published as "at Blacks Fork Ranger Station"), July 1966 to September 1986, October 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,811.3 ft above NGVD of 1929 (Bureau of Reclamation benchmark). Datums published from October 1968 to September 1978 are incorrect. October 1937 to July 1939, at site 970 ft downstream at different datum, July 1966 to September 1986 and October 1992 to September 1993 at site 0.2 mi downstream at datum 6.5 ft lower. U.S. Geological Survey data collection platform with satellite telemetry at station.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	24	e24	e21	e14	e7.2	15	94	378	88	35	22
2	22	23	e25	e20	e14	e7.4	14	72	311	85	35	21
3	23	23	e25	e20	e15	e7.6	18	77	269	88	35	21
4	22	23	e26	e20	e15	e7.8	25	81	228	84	34	21
5	22	24	e25	e21	e15	e8.0	24	109	229	78	34	21
6	23	24	e26	e21	e15	e8.0	21	135	268	76	33	21
7	24	26	e25	e22	e15	e8.0	26	177	286	75	32	42
8	23	25	e25	e22	e15	e7.8	32	151	281	69	31	43
9	27	26	e24	e22	e14	e7.8	43	121	262	61	32	34
10	24	30	e23	e22	e13	e8.0	74	111	201	58	32	25
11	24	29	e22	e22	e13	e8.2	85	102	167	57	31	25
12	24	26	e23	e23	e13	e8.6	80	97	158	54	30	71
13	25	25	e24	e23	e12	e8.5	60	118	160	52	30	79
14	24	25	e22	e22	e12	e8.5	32	170	162	50	30	70
15	24	25	e22	e20	e11	e8.4	42	221	165	49	30	67
16	24	27	e21	e19	e11	e8.2	33	274	167	58	28	66
17	25	28	e22	e19	e11	e8.4	23	247	174	60	28	84
18	23	26	e23	e19	e11	e8.2	28	362	178	58	30	93
19	21	28	e22	e19	e11	e8.6	22	407	187	55	30	86
20	21	31	e22	e18	e11	e8.8	19	406	177	53	29	87
21	21	28	e23	e18	e10	e9.0	18	332	161	45	28	79
22	22	26	e22	e18	e9.4	e9.2	22	209	179	42	26	73
23	22	26	e21	e17	e9.0	e9.1	25	153	149	42	26	69
24	22	26	e20	e17	e8.6	e8.8	35	140	136	44	25	66
25	24	26	e20	e18	e8.2	e8.8	44	131	129	45	23	64
26	23	e26	e20	e18	e8.4	e8.8	60	142	121	41	23	62
27	20	e25	e21	e18	e8.0	e8.8	61	181	113	39	23	59
28	21	e24	e22	e17	e7.6	e8.8	49	269	108	39	23	60
29	20	e25	e21	e16	---	e9.5	65	359	102	37	22	60
30	21	e25	e21	e15	---	10	96	423	94	35	22	62
31	26	---	e21	e14	---	12	---	393	---	35	22	---
TOTAL	709	775	703	601	330.2	264.8	1191	6264	5700	1752	892	1653
MEAN	22.87	25.83	22.68	19.39	11.79	8.542	39.70	202.1	190.0	56.52	28.77	55.10
MAX	27	31	26	23	15	12	96	423	378	88	35	93
MIN	20	23	20	14	7.6	7.2	14	72	94	35	22	21
AC-FT	1410	1540	1390	1190	655	525	2360	12420	11310	3480	1770	3280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

	MEAN	52.58	39.69	32.26	27.05	23.68	24.42	50.91	396.3	744.5	323.7	105.1	67.29
MAX	136	62.0	50.0	55.7	36.9	38.6	112	789	1273	1003	232	157	
(WY)	1983	1974	1974	1997	1974	1969	1985	1984	1983	1975	1983	1982	
MIN	22.9	20.8	11.1	6.73	9.32	8.54	19.4	134	190	56.5	28.8	27.4	
(WY)	2002	2000	1977	1977	1977	2002	1975	1975	2002	2002	2002	2001	

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1966 - 2002
ANNUAL TOTAL	35995	20835.0	--
ANNUAL MEAN	98.62	57.08	157.7
HIGHEST ANNUAL MEAN	--	--	228
LOWEST ANNUAL MEAN	--	--	57.1
HIGHEST DAILY MEAN	1180	423	1880
LOWEST DAILY MEAN	13	7.2	3.2
ANNUAL SEVEN-DAY MINIMUM	13	7.7	3.9
MAXIMUM PEAK FLOW	--	555	2480 ^a
MAXIMUM PEAK STAGE	--	3.26	5.17 ^b
ANNUAL RUNOFF (AC-FT)	71400	41330	114200
10 PERCENT EXCEEDS	278	159	480
50 PERCENT EXCEEDS	26	25	45
90 PERCENT EXCEEDS	19	9.8	21

a Gage height, 4.91 ft, site and datum then in use.

b Discharge, 2,210 ft³/s.

e Estimated.

GREEN RIVER BASIN

09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°03'15", long 100°23'52", in NE¹/₄NW¹/₄NE¹/₄ sec.5, T.12 N., R.115 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 60 ft downstream from bridge, 1.0 mi upstream from Gilbert Creek, 6.1 mi downstream from State Line Reservoir, and 9.0 mi south of Robertson.

DRAINAGE AREA.--53.0 mi².

PERIOD OF RECORD.--July 1939 to September 1999 (no winter records 1971 to 1999), April 2001 to current year. Monthly discharge only for some periods, published in WSP 1313. Prior to Oct. 1, 1978, published as East Fork of Smith Fork near Robertson.

REVISED RECORDS.--WSP 979: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,470 ft above NGVD of 1929, from topographic map. Prior to July 12, 1957, at datum 3.96 ft higher.

REMARKS.--Records poor. Flow completely regulated by State Line Reservoir, 6.1 mi upstream, total capacity, 14,000 acre-ft, dead storage is about 2,000 acre-ft, since May 1979.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	11	e5.1	e8.0	e6.4	e5.6	e8.6	e6.4	e230	e65	e25	e7.0
2	28	11	e5.3	e7.8	e6.8	e5.7	e9.0	e6.0	e220	e39	e25	e7.0
3	14	11	e5.4	e7.5	e7.2	e5.9	e9.6	e6.4	e190	e40	e25	e7.0
4	13	12	e5.5	e7.4	e7.4	e6.1	e9.2	e6.8	e170	e39	e24	e7.0
5	14	11	e5.3	e7.5	e7.4	e6.2	e11	e7.4	e170	e38	e24	e7.0
6	15	11	e5.5	e7.7	e7.4	e6.4	e12	e8.2	e185	e37	e24	e7.4
7	15	7.7	e5.7	e7.9	e7.6	e6.4	e11	e7.6	e190	e37	e14	e8.4
8	15	e7.2	e5.4	e8.1	e7.6	e6.3	e12	e7.0	e185	e37	e14	e10
9	16	e6.4	e5.2	e8.1	e7.4	e6.2	e13	e6.7	e175	e37	e14	e9.6
10	15	e6.7	e5.1	e8.2	e7.0	e6.2	e14	e6.4	e165	e36	e13	e8.2
11	15	e7.0	e5.0	e8.6	e6.8	e6.4	e16	e6.2	e110	e36	e13	e7.6
12	15	e7.2	e5.2	e8.8	e6.8	e6.5	e17	e6.0	e92	e36	e12	7.1
13	15	e7.0	e5.5	e8.8	e6.6	e6.7	e16	e6.6	e92	e36	e12	6.9
14	15	e6.6	e5.6	e8.4	e6.4	e6.7	e14	e8.6	e93	e36	e12	6.7
15	15	e6.7	e5.5	e8.0	e6.3	e6.8	e12	e50	e94	e36	e12	6.7
16	15	e6.9	e5.4	e7.8	e6.3	e6.8	e12	e56	e94	e37	e12	6.8
17	15	e6.7	e5.2	e7.8	e6.4	e6.9	e10	e71	e94	e38	e12	12
18	15	e6.5	e5.1	e7.8	e6.5	e7.0	e11	e78	e76	e40	e12	19
19	15	e6.2	e5.2	e7.4	e6.6	e7.2	e8.6	e90	e72	e38	e12	18
20	15	e6.4	5.2	e7.2	e6.6	e7.6	e7.8	e102	e63	e38	e12	18
21	15	e6.5	5.3	e7.0	e6.4	e7.8	e7.0	e94	e62	e37	e12	18
22	15	e6.2	5.7	e7.1	e6.3	e8.0	e6.2	e88	e60	e37	e12	18
23	15	e6.0	6.2	e7.2	e6.3	e8.2	e5.8	e80	e62	e37	e12	18
24	17	e5.8	7.2	e7.2	e6.2	e8.0	e5.5	e76	e64	e35	e12	18
25	16	e5.6	7.9	e7.0	e6.2	e8.0	e5.7	e71	e65	e34	e11	19
26	15	e5.3	e8.0	e6.8	e6.0	e8.0	e6.0	e76	e67	e33	e10	19
27	15	e5.2	e8.2	e6.6	e5.8	e8.0	e6.2	e88	e67	e33	e10	19
28	15	e5.0	e8.0	e6.6	e5.7	e8.0	e5.6	e102	e66	e33	e10	19
29	15	e5.2	e7.8	e6.4	---	e8.2	e5.9	e110	e66	e33	e7.4	19
30	14	e5.3	e7.8	e6.2	---	e8.2	e6.5	e125	e66	e26	e7.2	19
31	11	---	e8.0	e6.2	---	e8.4	---	e165	---	e26	e7.0	---
TOTAL	493	218.3	186.5	233.1	186.4	218.4	294.2	1618.3	3405	1140	433.6	373.4
MEAN	15.90	7.277	6.016	7.519	6.657	7.045	9.807	52.20	113.5	36.77	13.99	12.45
MAX	35	12	8.2	8.8	7.6	8.4	17	165	230	65	25	19
MIN	11	5.0	5.0	6.2	5.7	5.6	5.5	6.0	60	26	7.0	6.7
AC-FT	978	433	370	462	370	433	584	3210	6750	2260	860	741

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2002, BY WATER YEAR (WY)*

MEAN	15.92	10.80	8.040	7.161	7.170	7.970	18.92	104.0	214.6	104.9	42.05	27.72
MAX	34.8	19.0	16.9	16.4	13.4	15.0	90.0	221	628	374	120	91.2
(WY)	1962	1952	1966	1966	1966	1943	1946	1974	1983	1975	1965	1995
MIN	5.21	5.50	2.11	1.34	1.55	2.14	3.71	26.6	59.3	15.9	6.64	6.68
(WY)	1957	1957	1963	1963	1963	1963	1982	1983	1954	1940	1940	1956

SUMMARY STATISTICS

FOR 2002 WATER YEAR*

WATER YEARS 1939 - 2002*

ANNUAL TOTAL	8800.2	---
ANNUAL MEAN	24.11	46.45
HIGHEST ANNUAL MEAN	---	88.9
LOWEST ANNUAL MEAN	---	24.1
HIGHEST DAILY MEAN	230 ^e	1200
LOWEST DAILY MEAN	5.0	1.0
ANNUAL SEVEN-DAY MINIMUM	5.2	1.0
MAXIMUM PEAK FLOW	230 ^e	1450
MAXIMUM PEAK STAGE	5.03 ^e	6.75
ANNUAL RUNOFF (AC-FT)	17460	33650
10 PERCENT EXCEEDS	66	140
50 PERCENT EXCEEDS	8.4	13
90 PERCENT EXCEEDS	5.8	5.6

* For period of operation.

e Estimated.

09234500 GREEN RIVER NEAR GREENDALE, UT

LOCATION.--Lat 40°54'30", long 109°25'20", in NW¹/₄NW¹/₄SE¹/₄ sec. 15. T. 2 N., R. 22 E., Daggett County, Hydrologic Unit 14040106, Ashley National Forest on right bank 0.5 mi downstream from Flaming Gorge Dam, 2 mi south of Dutch John, 4 mi northeast of Greendale, and 407 mi from moutGreG

DRAINAGE AREA.--19,350 mi², approximately, including about 4,260 mi² which is probably noncontributing. This noncontributing area includes 3,959 mi² in Great Divide Basin in southern Wyoming.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,594.48 ft above NGVD of 1929. Prior to September 2, 1959, water-stage recorder at site 2.2 mi upstream at different datum. September 3, 1959, to September 30, 1985, at datum 5.0 ft lower.

REMARKS.-- Records good. Flow completely regulated by Flaming Gorge Reservoir 0.5 mi upstream, beginning November 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft³/s, Jun 12, 1957, gage height, 10.60 ft, site and datum then in use; maximum gage height, 14.51 ft, May 12, Jun 6, 1986, datum then in use; minimum, 2.3 ft³/s, Mar 20, 22, 27, 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,050 ft³/s, May 20, gage height, 11.30 ft; minimum daily discharge, 789 ft³/s, Sep 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	825	838	818	840	835	821	838	836	1820	842	821	809
2	832	834	814	838	838	821	837	842	1360	828	820	803
3	837	834	815	835	840	821	827	842	886	834	822	802
4	833	834	817	835	835	822	813	843	859	834	822	789
5	834	834	818	836	839	823	814	843	860	834	822	790
6	836	829	816	841	846	838	810	842	862	834	821	807
7	832	834	817	838	859	851	810	835	857	833	815	806
8	830	828	818	840	853	847	810	842	860	832	815	807
9	831	830	818	841	852	847	819	845	852	825	814	806
10	831	831	817	847	853	846	821	841	859	831	813	796
11	831	833	820	848	834	850	821	841	851	828	813	792
12	830	833	822	848	822	847	819	841	849	829	813	811
13	830	833	826	850	820	848	819	841	848	830	814	809
14	832	829	825	834	822	847	819	841	848	828	813	807
15	829	825	827	828	821	847	820	840	850	825	902	807
16	827	822	827	829	820	848	821	839	845	825	862	806
17	826	822	825	829	821	847	822	845	844	824	817	808
18	826	824	827	827	821	848	818	1240	843	823	815	807
19	826	829	827	827	823	848	822	2460	847	822	816	807
20	827	828	828	827	822	847	822	3550	847	822	817	805
21	827	832	828	827	821	848	821	3960	847	822	818	801
22	832	827	828	827	821	848	1040	3970	848	822	819	793
23	839	825	829	828	820	848	1260	3970	846	826	820	1780
24	840	822	829	833	820	847	814	3970	850	824	820	1790
25	840	824	828	835	820	845	814	3970	841	822	820	877
26	839	823	829	834	821	844	935	3970	840	822	842	855
27	839	825	837	836	821	842	845	3630	841	821	834	849
28	839	823	838	838	821	839	848	3290	840	821	816	853
29	841	802	838	839	---	840	848	3150	841	821	810	853
30	841	818	839	839	---	840	845	2540	847	819	820	854
31	835	---	840	836	---	841	---	2170	---	821	809	---
TOTAL	25817	24825	25585	25910	23241	26096	25472	60139	26988	25624	25495	26379
MEAN	832.8	827.5	825.3	835.8	830.0	841.8	849.1	1940	899.6	826.6	822.4	879.3
MAX	841	838	840	850	859	851	1260	3970	1820	842	902	1790
MIN	825	802	814	827	820	821	810	835	840	819	809	789
AC-FT	51210	49240	50750	51390	46100	51760	50520	119300	53530	50830	50570	52320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

	MEAN	1875	2030	2214	2138	2115	1805	1943	2510	2537	2304	1975	1848
MAX	3911	3655	3626	4145	4090	3818	4271	7146	8044	10130	5056	3729	
(WY)	1983	1983	1973	1985	1984	1977	1997	1986	1999	1983	1983	1983	
MIN	128	312	743	836	773	599	587	984	902	474	497	734	
(WY)	1964	1964	1964	2002	1971	1964	1964	1990	2002	1965	1965	1965	

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1964 - 2002
ANNUAL TOTAL	383105	341571	
ANNUAL MEAN	1050	935.8	2108
HIGHEST ANNUAL MEAN			4270
LOWEST ANNUAL MEAN			938
HIGHEST DAILY MEAN	4490	3970	12300
LOWEST DAILY MEAN	784	789	90
ANNUAL SEVEN-DAY MINIMUM	785	800	112
ANNUAL RUNOFF (AC-FT)	759900	677500	1527000
10 PERCENT EXCEEDS	1170	853	3720
50 PERCENT EXCEEDS	857	831	1830
90 PERCENT EXCEEDS	802	814	877

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1956 to September 2000, October 2001 to September 30, 2002.

PERIOD OF DAILY RECORD. --

SPECIFIC CONDUCTANCE: October 1956 to September 1959, October 1963 to September 2000.

WATER TEMPERATURES: October 1956 to September 1959, October 1963 to September 2000, October 2001 to September 30, 2002.

SEDIMENT DATA: October 1956 to September 1959.

INSTRUMENTATION.--Water-quality monitor from December 1986 to September 2000. Water temperature Thermister installed October 2001.

REMARKS.--Storage in Flaming Gorge Reservoir began on November 1, 1962. Samples for daily records are taken inside Penstock. Extremes are given for two separate periods--water years 1957-62, and water years 1964 to current year. Extremes for the 1963 water year (October 1962 to September 1963) are not included. Temperature extremes for the 1994 water year are not included. Unpublished daily records of specific conductance obtained before 1965 were included in the determination of extremes for period of daily record and are available in files of district office. Daily records provided by Bureau of Reclamation. Water-quality monitor located in separate shelter 0.6 mi downstream from Flaming Gorge Dam. Instrument failure resulted in lost record for 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--(water years 1957-62, 1964-2000, 2002).

SPECIFIC CONDUCTANCE (water years 1957-58, 1960-62): Maximum daily, 1,340 microsiemens, Aug 30, 1961; minimum daily, 325 microsiemens, Jun 2, 1961.

WATER TEMPERATURES (water years 1957-59): Maximum, 24.0°C, Jul 24, 25, 1959; minimum, 0.0°C, on many days during winter period each year.

SPECIFIC CONDUCTANCE (water years 1964 to 2000): Maximum daily, 1,060 microsiemens, Nov 9, 1971; minimum, 507 microsiemens, Jul 29, 1998.

WATER TEMPERATURES: (water years 1964 to 2000, 2002): Maximum, 17.2°C, Jul 9, 1989; minimum 1.6°C, Mar 1, 2, 1987.

EXTREMES FOR CURRENT YEAR. - -

WATER TEMPERATURE: Maximum recorded, 15.0°C, Aug 16; minimum recorded, 2.5°C, Mar 2, 3, 8, 9.

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN
	OCTOBER				NOVEMBER				DECEMBER				JANUARY		
1	---	---	---		9.5	8.8	9.2		---	---	---		4.5	4.3	4.4
2	---	---	---		9.5	8.9	9.1		---	---	---		4.4	4.2	4.3
3	---	---	---		9.3	9.0	9.1		---	---	---		4.5	4.2	4.4
4	---	---	---		9.2	9.0	9.1		---	---	---		4.4	4.1	4.2
5	---	---	---		---	---	---		---	---	---		4.3	4.0	4.2
6	---	---	---		---	---	---		---	---	---		4.2	4.1	4.2
7	---	---	---		---	---	---		---	---	---		4.4	4.2	4.3
8	---	---	---		---	---	---		---	---	---		4.4	4.2	4.3
9	---	---	---		---	---	---		---	---	---		4.4	4.2	4.3
10	---	---	---		---	---	---		---	---	---		4.4	4.1	4.2
11	9.0	8.1	8.5		---	---	---		---	---	---		4.4	4.1	4.2
12	9.9	8.9	9.5		---	---	---		---	---	---		4.2	4.0	4.1
13	12.0	8.9	10.6		---	---	---		---	---	---		4.0	3.8	3.9
14	11.0	9.6	10.1		---	---	---		---	---	---		---	---	---
15	10.0	8.9	9.4		---	---	---		---	---	---		---	---	---
16	9.0	8.5	8.7		---	---	---		---	---	---		---	---	---
17	9.0	8.5	8.8		---	---	---		---	---	---		---	---	---
18	9.6	8.8	9.2		---	---	---		---	---	---		---	---	---
19	9.6	9.0	9.3		---	---	---		---	---	---		---	---	---
20	9.1	8.9	9.0		---	---	---		---	---	---		---	---	---
21	9.1	8.7	8.9		---	---	---		---	---	---		---	---	---
22	9.6	8.9	9.3		---	---	---		---	---	---		---	---	---
23	11.1	9.1	9.9		---	---	---		---	---	---		---	---	---
24	11.4	10.3	11.0		---	---	---		---	---	---		---	---	---
25	10.3	9.3	9.6		---	---	---		---	---	---		---	---	---
26	9.4	8.9	9.1		---	---	---		---	---	---		4.1	3.8	3.9
27	9.2	8.9	9.1		---	---	---		---	---	---		4.0	3.7	3.8
28	9.4	8.9	9.2		---	---	---		4.7	4.5	4.6		3.7	3.5	3.5
29	9.2	8.9	9.0		---	---	---		4.7	4.5	4.5		---	---	---
30	9.3	8.8	9.2		---	---	---		4.6	4.4	4.5		---	---	---
31	9.9	8.9	9.4		---	---	---		4.5	4.4	4.5		---	---	---
MONTH	---	---	---		---	---	---		---	---	---		---	---	---

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	5.0	4.3	4.6	7.1	6.5	6.8
2	---	---	---	3.3	2.5	2.8	5.1	4.4	4.7	7.1	6.5	6.8
3	---	---	---	3.1	2.5	2.8	5.4	4.5	4.9	6.8	6.5	6.6
4	---	---	---	3.4	2.8	3.0	5.4	4.7	5.0	6.9	6.3	6.6
5	---	---	---	3.4	2.8	3.1	5.3	4.6	5.0	7.2	6.2	6.6
6	---	---	---	3.6	3.1	3.2	5.4	4.8	5.0	7.3	6.3	6.8
7	---	---	---	3.3	3.1	3.1	6.1	5.1	5.5	8.0	6.5	7.2
8	---	---	---	3.3	2.5	2.9	5.9	5.6	5.7	9.1	7.5	8.3
9	---	---	---	3.1	2.5	2.9	6.3	5.2	5.7	8.3	6.9	7.5
10	---	---	---	3.6	3.0	3.2	6.2	5.4	5.8	7.5	6.7	7.1
11	---	---	---	3.3	3.0	3.1	5.9	5.4	5.7	7.5	6.8	7.2
12	---	---	---	3.6	3.1	3.2	5.8	5.2	5.5	7.8	6.8	7.3
13	---	---	---	3.1	2.8	3.1	6.5	5.1	5.7	7.6	6.7	7.1
14	---	---	---	3.0	2.8	2.9	6.2	5.6	5.8	7.7	6.8	7.1
15	---	---	---	3.3	2.8	3.0	6.1	4.9	5.7	7.8	6.9	7.4
16	---	---	---	3.3	3.0	3.1	5.8	5.1	5.6	8.0	7.4	7.6
17	---	---	---	3.6	3.1	3.2	5.6	5.1	5.4	7.8	7.2	7.5
18	---	---	---	3.4	3.1	3.2	5.6	4.9	5.3	8.4	7.2	7.7
19	---	---	---	3.8	3.1	3.3	5.6	5.1	5.4	8.3	7.5	8.0
20	---	---	---	4.2	3.3	3.7	5.6	5.2	5.4	8.6	7.4	8.0
21	---	---	---	4.2	3.7	3.9	6.0	5.4	5.6	9.2	6.6	7.9
22	---	---	---	4.4	3.8	4.0	6.3	5.3	5.8	9.6	8.1	8.7
23	---	---	---	4.4	3.9	4.1	6.6	5.5	6.0	8.5	7.8	8.2
24	---	---	---	4.3	3.9	4.0	6.3	5.8	6.1	8.8	7.8	8.2
25	---	---	---	4.4	3.9	4.1	6.1	5.7	5.9	8.7	7.9	8.2
26	---	---	---	4.5	3.9	4.2	6.4	3.7	5.7	8.9	7.9	8.3
27	---	---	---	4.4	4.0	4.2	6.7	6.3	6.5	9.3	8.2	8.5
28	---	---	---	4.6	4.1	4.3	7.0	6.3	6.6	9.0	8.2	8.6
29	---	---	---	4.6	4.1	4.3	6.8	6.1	6.4	10.0	8.4	9.1
30	---	---	---	4.7	4.1	4.3	7.2	6.3	6.7	9.9	9.3	9.6
31	---	---	---	4.7	4.2	4.4	---	---	---	9.9	9.4	9.6
MONTH	---	---	---	---	---	---	7.2	3.7	5.6	10.0	6.2	7.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	11.6	9.6	10.1	13.1	12.0	12.7	13.6	12.7	13.1	12.0	11.0	11.6
2	11.4	9.6	10.3	13.4	12.5	12.9	13.2	11.8	12.5	11.9	11.1	11.5
3	10.4	9.2	9.8	13.6	12.8	13.1	12.0	11.4	11.7	12.4	11.2	11.8
4	10.4	9.3	9.9	13.4	12.6	12.9	11.8	10.8	11.4	12.4	11.6	12.1
5	10.2	8.8	9.6	13.6	12.7	13.1	12.2	11.1	11.5	12.8	11.8	12.4
6	9.4	8.8	9.0	13.7	12.7	13.2	12.5	9.5	11.2	12.5	11.5	12.1
7	9.3	8.8	9.0	13.6	13.0	13.3	10.7	9.4	10.1	11.7	10.8	11.2
8	10.1	8.9	9.5	13.2	10.4	12.0	11.8	10.2	11.0	11.6	10.8	11.2
9	10.5	9.1	9.8	11.4	10.6	10.9	11.9	11.0	11.4	11.4	10.6	10.9
10	10.2	9.7	10	14.0	10.6	12.8	12.3	11.4	11.8	11.6	10.7	11.1
11	10.2	9.6	9.9	14.1	13.1	13.6	12.5	11.7	12.2	12.1	11.3	11.7
12	10.4	9.8	10.1	14.2	13.4	13.8	13.1	12.2	12.6	12.3	12.0	12.2
13	10.6	10.0	10.3	14.1	13.2	13.7	12.9	12.2	12.5	12.7	12.0	12.3
14	10.7	10.1	10.4	14.1	13.2	13.5	13.0	12.3	12.6	12.8	12.2	12.4
15	10.9	10.4	10.7	14.2	11.7	13.0	12.6	11.0	11.9	12.4	11.9	12.1
16	11.1	10.6	10.8	12.5	11.6	12.0	15.0	10.8	13.1	12.4	11.9	12.2
17	11.4	10.4	10.9	12.4	11.7	12.0	14.6	13.7	14.1	12.5	11.9	12.2
18	11.5	10.4	11.0	13.0	12.1	12.6	14.5	13.2	13.8	12.5	12.0	12.2
19	11.6	10.8	11.2	13.5	12.2	12.8	13.8	11.8	13.0	13.1	12.3	12.7
20	13.3	10.8	11.7	13.3	12.4	12.8	13.1	11.8	12.2	12.8	11.9	12.4
21	13.4	12.9	13.2	13.1	11.9	12.6	12.7	10.7	11.6	12.5	11.5	12.0
22	13.9	12.9	13.4	12.3	11.8	12.0	12.1	10.9	11.3	12.1	11.6	11.8
23	13.9	13.0	13.4	12.4	11.6	12.0	11.5	10.4	10.9	12.3	11.6	12.1
24	13.2	12.1	12.9	12.4	11.3	11.9	10.8	10.0	10.5	12.7	11.6	12.1
25	13.1	12.3	12.7	12.5	11.6	12.0	10.9	10.1	10.4	11.7	10.7	11.0
26	12.8	11.6	12.2	12.3	11.3	11.8	12.1	9.0	11.1	11.8	10.1	11.3
27	12.7	11.5	12.2	11.9	11.4	11.7	13.1	12.1	12.6	11.6	11.2	11.5
28	13.2	12.2	12.6	13.1	11.4	12.3	13.1	12.2	12.7	11.6	11.2	11.4
29	13.6	12.5	13.0	13.3	12.4	12.9	13.3	11.0	12.3	11.4	11.0	11.2
30	13.2	12.1	12.8	12.9	12.0	12.4	11.9	10.9	11.5	11.2	10.9	11.0
31	---	---	---	13.1	12.0	12.6	12.4	11.5	12.0	---	---	---
MONTH	13.9	8.8	11.1	14.2	10.4	12.6	15.0	9.0	12.0	13.1	10.1	11.8

GREEN RIVER BASIN

09261000 GREEN RIVER NEAR JENSEN, UT

LOCATION.--Lat 40°24'34", long 109°14'05", in NE¹/₄SW¹/₄SE¹/₄ sec. 5, T. 5 S., R. 24 E., Uintah County, Hydrologic Unit 14060001, Dinosaur National Monument, on right bank 300 ft upstream from highway bridge, 1 mi downstream from Cub Creek and Chew Ranch, 4 mi southeast of Dinosaur National Monument headquarters, 6.5 mi northeast of Jensen, 12 mi upstream from Brush Creek, and 313.9 mi from mouth.

DRAINAGE AREA.--29,660 mi², approximately, including about 4,260 mi², which probably is noncontributing. This noncontributing area includes 3,959 mi² in Great Divide Basin in southern Wyoming.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1903 to December 1904, June to August 1905 (gage heights only), March to September 1906, July to October 1914, August to December 1915, October 1946 to current year. Prior to October 1946, published as "at Jensen," except October to December 1903, which was published as "near Vernal."

REVISED RECORDS.--WSP 1243: 1904(m). WDR UT-73: 1972. WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,758 ft above NGVD of 1929, from river-profile map. Prior to October 1, 1946, nonrecording gages at site 15 mi downstream at different datums. December 13, 1946 to September 30, 1948, water-stage recorder at present site at datum 1.50 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Transbasin diversions and diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234500) 93.1 mi upstream beginning November 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,000 ft³/s, May 18, 1984; gage height, 14.66 ft; minimum observed, 102 ft³/s, Dec 6, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,570 ft³/s, May 23, gage height, 6.06 ft; minimum daily discharge, 806 ft³/s, Sep 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	1170	1180	e1270	e1230	1250	2460	3350	4630	1030	842	841
2	1000	1180	1230	e1250	e1200	1090	2500	3130	5030	1010	856	828
3	1000	1200	1310	e1250	e1200	1160	2420	3530	4960	1000	873	826
4	996	1230	1310	e1250	e1200	1200	2650	3650	4540	979	878	816
5	991	1250	1350	e1250	e1200	1270	2790	3340	4210	959	877	814
6	994	1280	1370	e1250	e1200	1220	2610	3210	4040	936	862	806
7	994	1270	1400	e1250	e1200	1220	2480	3200	3720	925	850	813
8	999	1260	1350	e1250	e1250	1260	2610	3320	3400	910	853	830
9	1080	1250	1240	e1250	e1250	1210	2730	3540	3250	886	833	857
10	1110	1220	1280	e1300	e1250	1290	2730	3940	3140	871	820	843
11	1110	1230	1310	e1310	e1250	1340	2760	3640	3100	858	827	852
12	1110	1250	1310	e1320	e1250	1310	2790	3200	2910	854	821	960
13	1100	1280	1170	e1280	e1250	1360	3130	2900	2660	851	813	920
14	1140	1290	1200	e1260	e1250	1380	3250	2820	2380	849	e812	907
15	1170	1270	1300	e1210	e1270	1430	2920	2900	2160	842	e827	863
16	1150	1270	1110	e1210	e1250	1410	2900	2950	2000	840	843	850
17	1170	1270	e1090	e1210	e1250	1370	3330	3230	1870	835	922	865
18	1180	1280	1270	e1230	e1230	1370	3760	3390	1730	838	853	864
19	1180	1290	1260	e1250	e1200	1310	3760	3310	1620	847	830	884
20	1170	1280	1320	e1250	e1200	1320	3300	4180	1530	844	818	878
21	1170	1280	1360	e1220	1220	1350	3160	5740	1430	841	843	891
22	1160	1290	1360	e1250	1200	1410	3030	6680	1340	835	842	887
23	1150	1340	1300	e1260	1190	1510	3060	e7120	1310	829	823	881
24	1180	1320	1250	e1260	1210	1610	3100	7100	1280	825	809	1130
25	1170	1290	e1200	e1260	1190	1770	2860	6410	1220	845	807	1750
26	1180	1310	e1200	e1270	1090	2150	2560	6000	1210	895	816	1480
27	1180	1310	e1200	e1240	1160	2320	2790	5790	1180	858	813	965
28	1190	1260	e1200	e1250	1280	2080	3130	5340	1150	838	832	922
29	1190	1190	e1230	e1250	---	2080	3330	5130	1100	844	857	910
30	1180	1180	e1250	e1250	---	2210	3670	5220	1060	832	858	905
31	1180	---	e1270	e1250	---	2330	---	4850	---	846	841	---
TOTAL	34584	37790	39180	38860	34120	46590	88570	132110	75160	27252	26051	27838
MEAN	1116	1260	1264	1254	1219	1503	2952	4262	2505	879.1	840.4	927.9
MAX	1190	1340	1400	1320	1280	2330	3760	7120	5030	1030	922	1750
MIN	991	1170	1090	1210	1090	1090	2420	2820	1060	825	807	806
AC-FT	68600	74960	77710	77080	67680	92410	175700	262000	149100	54050	51670	55220

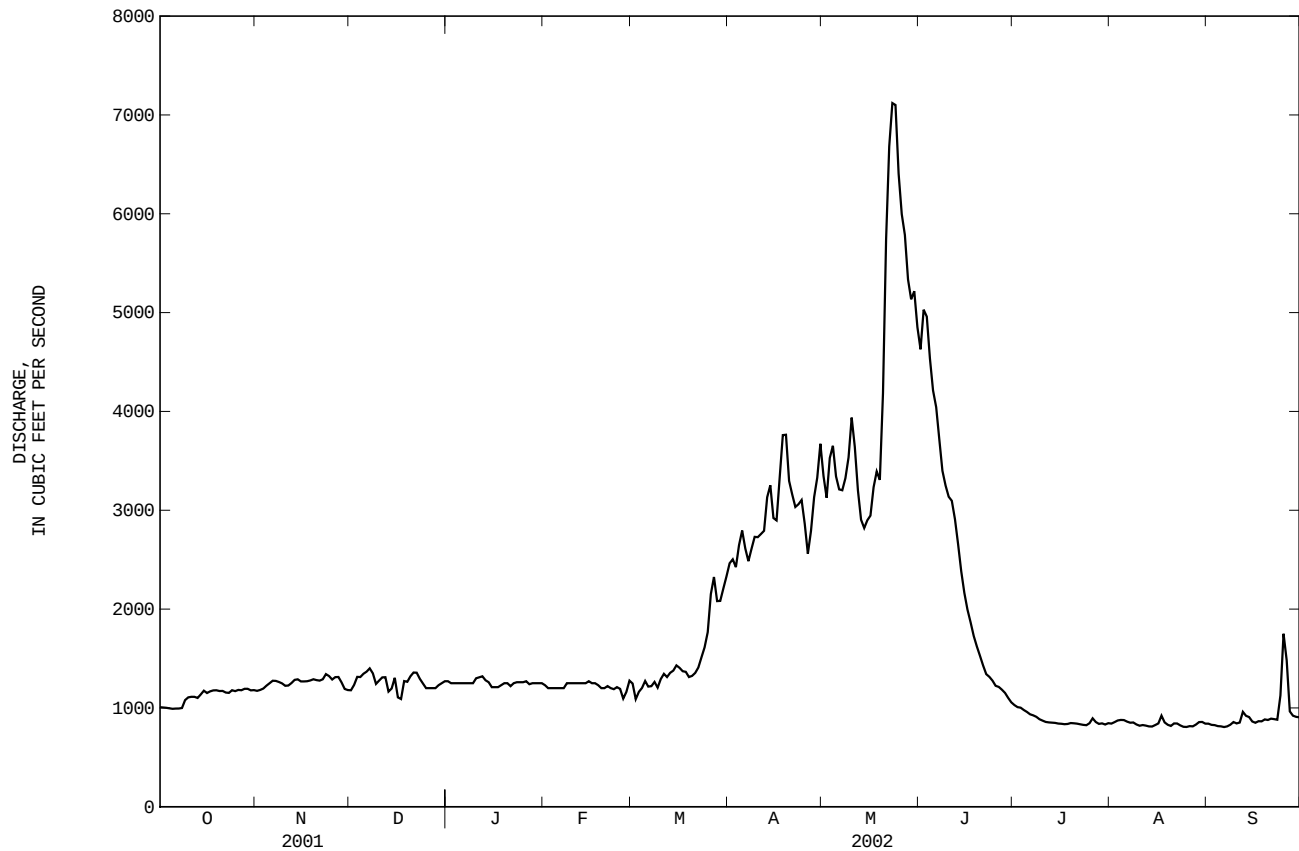
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2002, BY WATER YEAR (WY)

	MEAN	2150	2234	2195	2141	2364	3067	5619	11310	11390	4645	2431	1917
MAX	5020	4833	4414	4844	4839	5765	15350	24110	26460	16110	6460	4159	
(WY)	1983	1987	1987	1985	1986	1986	1962	1984	1957	1983	1983	1983	
MIN	344	590	527	598	721	946	2036	4220	2505	504	453	503	
(WY)	1964	1963	1963	1955	1955	1963	1963	1990	2002	1963	1963	1963	

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1947 - 2002	
ANNUAL TOTAL	907807		608105		4292	
ANNUAL MEAN	2487		1666		7783	
HIGHEST ANNUAL MEAN					1457	
LOWEST ANNUAL MEAN					38500	
HIGHEST DAILY MEAN	14400	May 18	7120	May 23	260	May 18 1984
LOWEST DAILY MEAN	973	Sep 8	806	Sep 6	296	Aug 2 1963
ANNUAL SEVEN-DAY MINIMUM	976	Sep 6	819	Sep 2	296	Oct 9 1963
ANNUAL RUNOFF (AC-FT)	1801000		1206000		3110000	
10 PERCENT EXCEEDS	6080		3270		10500	
50 PERCENT EXCEEDS	1350		1250		2720	
90 PERCENT EXCEEDS	1040		843		1090	

e Estimated



09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1947 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1947 to September 1952, October 1961 to September 1996.

WATER TEMPERATURE: March 1949 to September 1959, October 1961 to September 1996, October 1998 to current year.

SUSPENDED-SEDIMENT DISCHARGE: May 1948 to September 1979.

INSTRUMENTATION.--Temperature data logger October 1, 1998 to current year.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office. Sediment data for water years 1998 to 2001 was collected by Colorado District of U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,330 microsiemens, Sep 10, 1963; minimum daily, 176 microsiemens, May 24, 1963.

WATER TEMPERATURE: Maximum, 30.0°C, Jul 11, 1958; minimum, 0.0°C, on many days during winter period most years.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 40,600 mg/L, Aug 23, 1960; minimum daily mean, 9 mg/L, Oct 7-11, 1953, Nov 22, 1962, and Sep 1, 1972.

SEDIMENT LOADS: Maximum daily, 2,500,000 tons, Mar 29, 1962; minimum daily, 10 tons, on many days in 1962 and 1963.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 27.7°C, Jul 10; minimum, 0.0°C on many days in Feb.

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

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	BARO- METRIC PRES- SURE (MM OF HG) (000025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (000301)	OXYGEN, DIS- SOLVED (MG/L) (000300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (000400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (000095)	TEMPER- ATURE WATER (DEG C) (000010)	GAGE HEIGHT (FEET) (000065)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
APR 24...	0950	--	648	109	10.3	8.4	459	10.5	4.09	297	.7
MAY 23...	1510	7430	642	105	9.4	8.3	457	12.2	5.99	294	.7
JUL 09...	1230	870	642	122	8.6	8.3	685	24.1	1.98	424	.8
AUG 14...	1335	812	636	116	8.7	8.4	715	20.3	1.88	455	1.0
SEP 14...	1340	812	636	116	8.7	8.4	715	20.3	1.88	454	1.0
SEP 10...	1620	--	640	106	8.6	8.3	994	16.8	1.72	461	E1

e Estimated value.

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	17.0	14.3	16.1	10.7	8.8	9.9	1.2	0.5	0.9	0.6	0.4	0.4
2	17.3	14.7	16.2	10.2	8.1	9.1	1.7	0.6	1.2	0.5	0.4	0.4
3	16.7	14.1	15.6	9.3	7.2	8.4	2.0	1.1	1.6	0.5	0.4	0.4
4	16.0	13.3	15.0	8.8	6.5	7.8	2.0	1.0	1.5	0.5	0.4	0.4
5	15.0	11.9	13.3	8.7	6.6	7.8	1.9	0.9	1.4	0.5	0.4	0.4
6	13.5	11.0	12.6	9.7	6.8	8.2	1.9	0.7	1.3	0.5	0.4	0.4
7	14.1	11.7	13.1	9.7	8.0	8.9	2.5	0.9	1.5	0.5	0.4	0.4
8	14.4	11.9	13.3	9.5	7.8	8.6	1.6	0.3	0.7	0.5	0.4	0.4
9	14.4	11.3	12.6	9.0	6.5	7.5	1.0	0.4	0.4	0.5	0.4	0.5
10	12.3	9.9	11.1	7.6	5.7	6.6	0.5	0.4	0.4	0.5	0.4	0.4
11	11.7	8.6	9.8	7.7	6.0	6.9	0.5	0.4	0.4	0.5	0.4	0.4
12	9.3	6.9	8.2	8.0	5.9	7.1	0.6	0.4	0.4	0.5	0.4	0.4
13	9.8	7.3	8.8	8.1	6.3	7.4	0.5	0.4	0.4	0.5	0.4	0.5
14	10.4	7.6	9.3	8.1	6.4	7.4	0.5	0.4	0.4	0.5	0.4	0.5
15	11.0	8.5	10	7.8	5.6	6.7	0.8	0.3	0.5	0.5	0.4	0.5
16	10.9	8.4	10	7.1	5.0	6.1	0.5	0.4	0.4	0.5	0.4	0.5
17	10.9	8.5	10.1	6.4	4.3	5.5	0.5	0.4	0.4	0.6	0.4	0.5
18	11.7	9.0	10.6	6.3	4.3	5.5	0.5	0.4	0.4	0.5	0.4	0.5
19	11.4	8.8	10.2	6.2	4.6	5.5	0.5	0.4	0.4	0.6	0.4	0.5
20	10.8	8.6	9.7	5.8	3.6	4.7	0.5	0.4	0.4	0.5	0.4	0.5
21	10.0	8.1	9.3	5.1	3.3	4.3	0.5	0.4	0.4	0.5	0.5	0.5
22	10.0	8.2	9.4	5.0	4.1	4.7	0.5	0.4	0.4	0.5	0.4	0.5
23	10.1	7.8	9.0	5.7	4.3	5.0	0.5	0.4	0.4	0.5	0.4	0.5
24	8.7	6.4	7.7	5.6	4.1	4.7	0.5	0.4	0.5	0.6	0.4	0.5
25	8.1	5.5	6.8	5.0	2.8	4.0	0.5	0.4	0.5	0.6	0.4	0.5
26	7.1	4.6	6.1	3.6	2.2	2.9	0.5	0.4	0.4	0.5	0.4	0.5
27	7.9	4.9	6.5	3.5	1.5	2.4	0.5	0.4	0.4	0.5	0.4	0.4
28	9.3	6.1	7.8	1.7	0.3	0.9	0.5	0.4	0.4	0.5	0.4	0.4
29	10.6	7.7	9.2	1.0	0.4	0.5	0.5	0.4	0.4	0.5	0.4	0.4
30	11.2	9.2	10.3	1.7	0.3	0.8	0.5	0.4	0.4	0.5	0.4	0.4
31	12.3	10.3	10.9	---	---	---	0.5	0.4	0.4	0.5	0.4	0.4
MONTH	17.3	4.6	10.6	10.7	0.3	5.9	2.5	0.3	0.6	0.6	0.4	0.4

GREEN RIVER BASIN

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09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	0.5	0.3	0.4	2.0	0.4	1.0	10.6	7.8	9.3	14.9	13.2	14.0
2	0.4	0.0	0.2	1.1	0.4	0.6	11.5	8.6	10	15.6	12.4	13.9
3	e0.0	0.0	e0.0	1.1	0.4	0.7	11.3	8.7	10	14.4	12.6	13.6
4	e0.0	0.0	e0.0	1.9	0.4	1.0	11.7	8.8	10.2	15.8	13.1	14.3
5	e0.0	0.0	e0.0	2.7	0.4	1.4	12.4	9.5	10.8	16.0	13.5	14.8
6	e0.0	0.0	e0.0	3.8	0.9	2.3	12.6	10.8	11.6	17.1	14.0	15.4
7	e0.0	e0.0	e0.0	3.6	1.8	2.8	13.4	11.2	12.1	16.6	14.8	15.7
8	e0.0	0.0	e0.0	3.4	1.8	2.6	13.5	10.7	11.9	16.1	13.6	14.8
9	e0.0	0.0	e0.0	3.9	0.9	2.5	13.5	11.1	12.2	14.6	12.5	13.5
10	e0.0	0.0	e0.0	3.8	1.2	2.7	12.5	11.6	12.2	13.6	12.0	12.7
11	e0.0	0.0	e0.0	5.3	1.9	3.7	13.7	11.1	12.2	14.1	12.0	12.9
12	e0.0	0.0	e0.0	6.8	3.5	5.2	12.5	10.6	11.6	15.0	11.6	13.1
13	e0.0	0.0	e0.0	6.6	3.9	5.3	13.6	10.7	12.0	16.3	12.8	14.3
14	e0.0	0.0	e0.0	5.3	3.6	4.3	13.5	11.7	12.6	17.3	14.2	15.6
15	e0.0	0.0	e0.0	4.2	2.4	3.4	12.9	11.6	12.3	18.4	15.7	16.8
16	e0.0	0.0	e0.0	3.8	1.6	2.8	12.5	10.8	11.6	16.8	15.8	16.2
17	e0.0	0.0	e0.0	3.7	2.2	2.9	11.4	9.6	10.3	17.5	14.5	16.0
18	0.4	0.1	0.2	4.7	1.5	3.1	10.6	9.1	9.8	18.3	15.3	16.7
19	0.4	0.3	0.4	5.5	2.1	4.1	10.9	8.6	9.7	19.7	16.3	18.0
20	0.6	0.3	0.4	6.9	2.9	5.1	9.7	8.8	9.2	19.2	17.6	18.4
21	0.9	0.4	0.6	8.1	4.2	6.4	11.2	8.2	9.6	17.9	13.6	15.5
22	0.9	0.4	0.6	9.8	5.7	8.0	11.9	8.6	10.1	13.6	11.7	12.5
23	1.1	0.4	0.7	9.1	7.2	8.0	13.0	9.8	11.3	12.6	10.7	11.7
24	1.4	0.6	1.0	7.9	6.1	7.1	13.9	10.6	12.1	13.8	11.2	12.3
25	1.7	0.7	1.2	7.7	5.5	6.6	14.1	11.7	12.8	14.7	11.9	13.3
26	1.3	0.4	0.8	7.8	5.1	6.5	14.9	12.3	13.5	15.9	12.9	14.3
27	1.4	0.4	0.9	7.3	4.8	6.0	13.3	12.3	12.8	16.6	14.1	15.2
28	2.1	0.4	1.2	7.9	4.9	6.4	13.9	11.5	12.6	17.1	13.9	15.4
29	---	---	---	8.6	5.2	6.9	14.6	11.7	13.1	17.1	15.0	16.0
30	---	---	---	10.1	6.8	8.3	15.3	12.7	14.0	19.1	15.6	17.2
31	---	---	---	10.3	7.4	8.8	---	---	---	20.8	17.1	18.9
MONTH	2.1	0.0	0.3	10.3	0.4	4.4	15.3	7.8	11.4	20.8	10.7	14.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	20.6	18.6	19.6	25.3	21.0	23.4	25.0	21.6	23.5	21.3	17.2	19.6
2	20.1	17.7	19.1	25.8	21.9	23.9	23.9	21.9	22.6	21.9	18.1	20.3
3	18.7	17.1	17.8	24.9	22.5	23.6	24.3	20.4	22.2	21.0	18.5	19.7
4	18.8	15.8	17.3	24.9	21.7	23.3	24.8	20.6	22.7	22.0	17.4	19.9
5	19.8	16.1	17.9	25.5	21.7	23.3	24.0	21.0	22.6	22.2	19.1	20.6
6	21.0	17.9	19.4	25.8	21.4	23.7	24.0	21.0	22.4	20.5	18.7	19.5
7	21.2	19.0	20.1	26.9	22.1	24.5	23.9	21.1	22.4	20.5	18.2	19.1
8	20.9	19.2	19.9	26.8	22.8	24.9	23.8	20.7	22.3	21.0	18.1	19.3
9	19.8	17.7	18.7	27.3	22.7	25.1	23.1	19.0	21.2	20.8	17.5	19.3
10	19.1	16.3	17.6	27.7	23.4	25.6	23.4	19.3	21.6	20.9	17.5	19.2
11	18.7	15.7	17.1	27.5	23.1	25.3	23.6	19.5	21.8	19.2	17.7	18.4
12	20.4	16.6	18.2	26.9	22.5	24.9	23.5	19.8	21.6	19.6	17.1	18.1
13	21.8	17.9	19.6	26.9	22.8	25.0	22.8	18.8	20.9	20.4	16.9	18.7
14	22.8	18.9	20.7	26.6	22.6	25.0	e22.6	e19.0	e21.3	20.4	16.9	18.9
15	23.2	19.6	21.4	27.5	23.7	25.3	23.5	19.2	21.4	20.2	16.8	18.7
16	23.4	19.7	21.5	27.4	23.0	25.2	23.3	19.8	21.8	19.9	16.5	18.3
17	23.5	19.9	21.8	27.4	23.4	25.4	23.0	19.4	21.3	18.5	16.2	17.5
18	23.5	19.7	21.7	27.0	23.6	25.4	23.1	19.3	21.3	17.5	15.3	16.2
19	23.8	19.8	21.9	24.9	22.8	23.8	23.0	19.1	21.1	17.7	14.0	15.9
20	24.0	20.2	22.2	24.7	21.9	22.9	22.8	19.6	21.1	17.8	14.5	16.4
21	22.6	20.0	21.3	25.5	21.0	23.4	23.0	19.4	21.2	18.0	14.5	16.4
22	23.3	19.5	21.5	25.7	21.8	23.9	23.2	19.7	21.6	17.7	14.0	16.2
23	23.6	19.7	21.8	26.6	22.8	24.1	22.6	19.3	21.0	17.5	14.1	16.1
24	24.3	20.0	22.4	26.0	21.3	23.8	22.9	18.8	21.1	17.6	13.8	16.2
25	25.4	20.9	23.3	25.3	22.3	23.8	22.6	18.8	21.0	17.0	15.3	15.8
26	25.0	21.3	23.5	24.6	21.3	22.8	22.6	18.5	20.8	16.4	14.7	15.7
27	24.3	20.8	22.8	24.3	21.0	22.5	23.1	18.8	21.1	17.0	13.7	15.6
28	24.7	20.8	23.1	24.6	20.3	22.6	22.7	18.6	20.9	17.1	14.0	15.6
29	24.6	21.0	23.1	24.9	20.8	23.0	21.8	18.5	19.8	16.3	14.3	15.1
30	24.8	20.6	23.0	25.5	21.1	23.4	20.8	16.9	19.0	16.2	13.4	14.9
31	---	---	---	25.6	21.7	23.7	21.0	18.2	19.7	---	---	---
MONTH	25.4	15.7	20.6	27.7	20.3	24.1	25.0	16.9	21.4	22.2	13.4	17.7
YEAR	27.7	0.0	11.1									
e Estimated												

e Estimated

GREEN RIVER BASIN

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)
APR												
02...	1141	2470	8.7	532	3550	96	97	99	100	100	--	--
23...	1051	3080	10.0	443	3680	41	41	43	56	89	--	--
MAY												
14...	1035	2700	14.7	77	561	97	98	100	100	100	--	--
22...	1112	6960	11.5	811	15200	38	50	62	69	96	--	100
JUN												
04...	1143	4940	16.1	199	2650	73	82	94	100	100	--	--
JUL												
03...	1112	965	22.5	14	36.5	--	--	--	--	--	91	--

BEDLOAD SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY) (80225)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM (80226)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM (80227)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM (80228)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM (80229)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM (80230)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM (80231)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM (80232)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM (80233)
APR													
02...	1242	2440	9.6	739	128	0	0	4	81	96	99	100	100
23...	1221	3080	10.7	433	106	0	0	1	33	82	98	100	100
MAY													
14...	0929	2700	13.5	380	64	0	0	2	55	88	96	98	100
22...	1006	6910	11.5	77	272	0	0	7	49	86	98	99	100
JUN													
04...	1017	4970	15.7	343	234	0	0	6	72	95	99	100	100
JUL													
03...	1029	965	22.5	673	3.2	0	0	4	71	87	96	100	100

SED.
BEDLOAD
SIEVE
DIAM.
% FINER
THAN
16.0 MM
(80234)

APR
02... --
23... --
MAY
14... 100
22... --
JUN
04... --
JUL
03... --

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)
APR										
23...	1220	3080	3	10	25	57	87	97	100	100

09261700 BIG BRUSH CREEK ABOVE RED FLEET RESERVOIR, NEAR VERNAL, UT

LOCATION.--Lat 40°35'20", long 109°27'53", in NW¹/₄SE¹/₄NE¹/₄ sec. 5, T. 3 S., R. 22 E., Uintah County, Hydrologic Unit 14060002, on right bank 950 ft below State Highway 44, 5.5 mi upstream from Little Brush Creek, and 10.5 mi northeast of Vernal.

DRAINAGE AREA.--77.2 mi².

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,625 ft above NGVD of 1929, from topographic map. Prior to September 1980, water-stage recorder at site 250 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Water from Oaks Park Reservoir (capacity 6,250 acre-ft), near headwaters, is diverted through Oaks Park Canal to Ashley Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 384 ft³/s, May 22, 1998, gage height, 2.09 ft; maximum gage height, 3.06 ft, May 23, 1980 at different datum; minimum daily discharge, 6.8 ft³/s, Aug 13, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 61 ft³/s, May 7, gage height, 0.93 ft; minimum discharge, 0.78 ft³/s, Aug 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	14	14	e13	13	12	54	23	17	13	12
2	15	15	14	14	e13	e13	13	46	23	16	13	12
3	16	15	15	14	e12	e13	13	42	26	16	13	11
4	16	14	15	14	e12	13	14	41	26	16	13	12
5	16	15	15	14	12	14	14	42	25	16	13	11
6	16	15	16	14	e12	13	14	45	24	16	13	11
7	16	15	15	14	e12	12	19	53	23	16	13	13
8	16	17	14	14	e12	13	21	52	22	15	14	14
9	17	17	15	14	12	13	24	47	22	14	12	14
10	17	16	15	14	13	12	25	45	24	14	12	14
11	17	15	15	14	13	12	24	42	30	15	12	14
12	17	15	15	14	13	12	22	40	30	15	12	16
13	17	15	15	14	13	13	21	38	29	15	6.8	16
14	17	15	15	14	13	14	26	40	29	14	11	15
15	17	16	16	14	13	13	31	41	28	14	12	15
16	17	14	15	14	13	13	29	39	28	14	12	15
17	17	14	15	e14	13	13	26	39	27	13	12	15
18	16	14	14	14	13	13	23	37	26	14	12	14
19	14	14	14	e14	13	13	23	37	26	12	12	13
20	14	14	15	e14	13	12	22	36	26	13	12	13
21	15	16	17	14	13	13	20	35	25	13	12	13
22	15	17	17	14	14	13	18	34	25	13	12	12
23	14	16	17	e14	14	13	20	34	24	13	12	12
24	14	17	e16	e14	14	13	26	31	23	13	12	12
25	15	16	15	e14	14	13	34	30	21	15	12	12
26	16	16	e14	14	15	12	36	29	18	15	11	12
27	15	15	14	14	14	12	40	28	18	15	11	12
28	15	15	14	14	14	13	35	27	18	14	11	12
29	15	15	14	14	---	12	35	25	18	14	13	12
30	14	14	14	e14	---	12	46	24	17	14	12	12
31	15	---	14	e14	---	12	---	23	---	13	12	---
TOTAL	485	458	463	434	365	395	726	1176	724	447	372.8	391
MEAN	15.65	15.27	14.94	14.00	13.04	12.74	24.20	37.94	24.13	14.42	12.03	13.03
MAX	17	17	17	14	15	14	46	54	30	17	14	16
MIN	14	14	14	14	12	12	12	23	17	12	6.8	11
AC-FT	962	908	918	861	724	783	1440	2330	1440	887	739	776

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2002, BY WATER YEAR (WY)

	MEAN	21.53	18.15	15.90	14.78	14.17	15.32	45.14	152.7	113.9	44.84	32.48	23.79
MAX	38.2	29.3	25.4	22.4	21.4	24.5	88.9	296	314	126	51.2	35.1	
(WY)	1987	1987	1984	1984	1987	1986	1985	1998	1983	1983	1983	1997	
MIN	13.5	12.4	10.2	10.1	10.6	10.8	17.7	38.6	25.5	14.1	11.8	12.7	
(WY)	1990	1991	1993	1993	1993	1982	1982	2002	2002	2002	2002	2002	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1980 - 2002

ANNUAL TOTAL	15835	6436.8	
ANNUAL MEAN	43.38	17.64	
HIGHEST ANNUAL MEAN			42.86
LOWEST ANNUAL MEAN			69.6
HIGHEST DAILY MEAN	274	May 15	54
LOWEST DAILY MEAN	12	Jan 27	6.8
ANNUAL SEVEN-DAY MINIMUM	12	Feb 1	11
ANNUAL RUNOFF (AC-FT)	31410		12770
10 PERCENT EXCEEDS	126		29
50 PERCENT EXCEEDS	17		14
90 PERCENT EXCEEDS	12		12

e Estimated

09266500 ASHLEY CREEK NEAR VERNAL, UT

LOCATION.--Lat 40°34'39", long 109°37'17", in NE¹/₄NW¹/₄NE¹/₄ sec. 12, T. 3 S., R. 20 E., Uintah County, Hydrologic Unit 14060002, on right bank 0.8 mi upstream from head of Utah Power & Light Co.'s canal, 4.5 mi upstream from Dry Fork, and 10 mi northwest of Vernal.

DRAINAGE AREA.--101 mi².

PERIOD OF RECORD.--October 1911 to April 1912, August to December 1912, October 1914 to 1917, 1919 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 6,230.61 ft above NGVD of 1929. Prior to November 14, 1917, nonrecording and water-stage recorder at several sites within 1.5 mi of present site at various datums. November 14, 1917 to July 30, 1968, water-stage recorder at site 75 ft downstream at various datums.

REMARKS.-- Records good. Flow increased since July 1940 by water released from Oaks Park Reservoir, capacity, 6,250 acre-ft on Big Brush Creek and diverted to Ashley Creek basin for irrigation. City of Vernal pipeline, capacity, approximately 11 ft³/s diverts water from tributary spring about 1,000 ft above station (diversion began August 1, 1941); at times, part of this flow is returned to Ashley Creek 2.5 mi below station. Prior to September 1961, pipeline capacity was approximately 5 ft³/s and the return flow entered Ashley Creek 0.5 mi below station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,100 ft³/s, Jun 15, 1995, gage height, 5.64 ft, from highwater mark; maximum gage height, 6.09 ft, Jun 16, 1929, datum then in use; minimum, 3.2 ft³/s, Mar 16, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 8	0500	*136	*2.38				
Minimum discharge, 5.2 ft ³ /s, Aug 13.							

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	21	17	15	12	11	9.5	101	87	34	17	12
2	16	21	18	15	12	11	10	77	86	33	18	12
3	16	21	18	14	12	11	11	75	86	33	18	12
4	19	20	18	15	12	11	11	78	93	31	16	12
5	17	19	18	15	12	10	11	81	84	31	16	12
6	16	23	17	15	12	9.2	12	88	81	28	15	14
7	17	23	18	14	12	9.7	13	114	72	26	16	17
8	16	23	17	15	12	10	11	111	69	26	16	23
9	19	23	17	15	12	10	11	84	65	21	16	26
10	20	20	17	14	11	9.8	13	80	62	16	15	28
11	21	20	17	14	12	9.9	13	70	62	15	7.1	24
12	24	21	16	14	11	9.6	12	62	59	14	6.4	30
13	23	21	16	14	12	9.6	11	68	58	13	8.7	43
14	22	21	16	14	11	9.8	11	73	51	13	13	40
15	22	19	17	13	11	10	16	73	50	11	11	33
16	21	18	17	13	11	9.7	18	80	50	11	12	29
17	20	18	16	13	11	9.7	17	75	47	11	12	28
18	19	17	16	13	11	9.6	15	79	47	e12	12	29
19	20	18	16	12	11	10	14	85	43	e13	11	29
20	19	16	16	12	11	9.4	12	88	43	e13	11	28
21	20	16	16	13	10	9.8	10	89	41	e14	15	27
22	20	18	16	12	10	9.9	9.6	83	44	e14	16	25
23	20	19	15	13	10	9.2	9.3	78	43	14	14	23
24	20	18	15	12	10	9.6	11	72	40	17	11	24
25	18	16	15	12	10	9.0	14	67	38	16	12	24
26	17	17	15	12	10	8.8	27	70	38	26	12	24
27	19	16	15	13	10	9.4	50	66	35	35	11	23
28	19	17	15	12	11	9.3	47	65	31	18	11	23
29	19	16	15	13	---	8.6	45	81	37	20	13	24
30	19	19	15	12	---	9.0	75	90	38	18	13	27
31	19	---	15	12	---	9.2	---	91	---	18	13	---
TOTAL	593	575	505	415	312	301.8	549.4	2494	1680	615	408.2	725
MEAN	19.13	19.17	16.29	13.39	11.14	9.735	18.31	80.45	56.00	19.84	13.17	24.17
MAX	24	23	18	15	12	11	75	114	93	35	18	43
MIN	16	16	15	12	10	8.6	9.3	62	31	11	6.4	12
AC-FT	1180	1140	1000	823	619	599	1090	4950	3330	1220	810	1440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-17, 1919-2002, BY WATER YEAR (WY)												
MEAN	53.09	38.20	28.54	23.85	21.07	20.11	48.46	343.8	322.1	126.0	82.64	66.54
MAX	154	104	64.2	45.0	40.0	43.3	162	739	1051	360	161	230
(WY)	1942	1942	1942	1928	1928	1916	1962	1986	1983	1975	1952	1927
MIN	6.91	5.57	7.74	5.12	4.60	4.54	6.22	71.7	54.6	19.0	13.3	7.81
(WY)	1990	1990	1989	1977	1978	1978	1975	1977	2002	2002	2002	1989

SUMMARY STATISTICS				FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1915-17, 1919-2002			
ANNUAL TOTAL				37107		9173.4					
ANNUAL MEAN				101.7		25.13		98.22			
HIGHEST ANNUAL MEAN								178			1921
LOWEST ANNUAL MEAN								24.9			2002
HIGHEST DAILY MEAN				1120	May 14	114	May 7	2530	Jun 15	1995	
LOWEST DAILY MEAN				12	Feb 22	6.4	Aug 12	3.5	Jan 3	1977	
ANNUAL SEVEN-DAY MINIMUM				13	Mar 13	9.0	Mar 25	3.8	Dec 31	1976	
ANNUAL RUNOFF (AC-FT)				73600		18200		71160			
10 PERCENT EXCEEDS				243		67		228			
50 PERCENT EXCEEDS				20		16		42			
90 PERCENT EXCEEDS				14		10		14			

e Estimated

09267500 MOSBY CANAL NEAR LAPOINT, UT

LOCATION.--Lat 40°36'30", long 109°53'00", in sec. 27, T. 2 S., R. 18 E., Uintah County, Hydrologic Unit 14060002, on left bank 4.5 mi southeast of Paradise Park Reservoir, 8 mi downstream from diversion from Dry Fork, and 16 mi northwest of Lapoint.

PERIOD OF RECORD.--July 1954 to current year. Seasonal records only since October 1984.

GAGE.--Water-stage recorder and 4 ft Parshall flume control. Elevation of gage is 9,500 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. No flow is assumed November through April. Canal began diverting in 1942 or 1943 from Dry Fork for irrigation in Deep Creek basin. Since 1975 flow regulated by Julius Park Reservoir, capacity 200 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 46 ft³/s, Jul 19, 1995; no flow for extended periods each year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	3.3	15	15	8.4	0.00
2	---	---	---	---	---	---	---	3.5	15	4.6	4.2	0.00
3	---	---	---	---	---	---	---	4.7	15	0.49	5.4	0.00
4	---	---	---	---	---	---	---	16	15	0.27	6.3	0.00
5	---	---	---	---	---	---	---	15	15	0.00	6.3	0.00
6	---	---	---	---	---	---	---	16	16	0.00	6.3	0.00
7	---	---	---	---	---	---	---	17	16	0.00	5.8	0.20
8	---	---	---	---	---	---	---	17	15	0.00	0.74	0.43
9	---	---	---	---	---	---	---	17	14	0.00	0.29	0.51
10	---	---	---	---	---	---	---	17	14	0.00	0.00	0.30
11	---	---	---	---	---	---	---	16	7.1	0.00	0.00	0.98
12	---	---	---	---	---	---	---	14	1.1	0.00	0.00	11
13	---	---	---	---	---	---	---	13	0.87	0.00	0.00	17
14	---	---	---	---	---	---	---	15	0.81	0.00	0.00	19
15	---	---	---	---	---	---	---	16	0.70	0.00	0.00	18
16	---	---	---	---	---	---	---	17	0.60	0.00	0.00	19
17	---	---	---	---	---	---	---	15	0.60	0.00	0.00	19
18	---	---	---	---	---	---	---	15	0.40	0.00	20	19
19	---	---	---	---	---	---	---	18	0.30	0.00	19	17
20	---	---	---	---	---	---	---	19	0.00	0.00	18	16
21	---	---	---	---	---	---	---	20	0.00	0.00	16	15
22	---	---	---	---	---	---	---	20	12	0.00	15	14
23	---	---	---	---	---	---	---	20	15	17	14	12
24	---	---	---	---	---	---	---	19	19	18	13	11
25	---	---	---	---	---	---	e0.9	18	18	18	4.6	8.4
26	---	---	---	---	---	---	e0.9	17	17	18	0.57	6.8
27	---	---	---	---	---	---	e0.9	16	16	18	0.16	6.8
28	---	---	---	---	---	---	e0.9	16	15	17	0.00	6.5
29	---	---	---	---	---	---	2.6	15	14	17	0.00	7.0
30	---	---	---	---	---	---	3.0	15	14	16	0.00	7.7
31	---	---	---	---	---	---	---	16	---	15	0.00	---
TOTAL	---	---	---	---	---	---	---	476.5	302.48	174.36	164.06	252.62
MEAN	---	---	---	---	---	---	---	15.37	10.08	5.625	5.292	8.421
MAX	---	---	---	---	---	---	---	20	19	18	20	19
MIN	---	---	---	---	---	---	---	3.3	0.00	0.00	0.00	0.00
AC-FT	---	---	---	---	---	---	---	945	600	346	325	501

e Estimated

GREEN RIVER BASIN

09271400 ASHLEY CREEK NEAR NAPLES, UT

LOCATION.--Lat 40°26'01", long 109°27'56", in NE¹/₄NW¹/₄NE¹/₄ sec. 32, T. 4 S., R. 22 E., Uintah County, Hydrologic Unit 14060002, on left bank east of Naples.

DRAINAGE AREA.--Not determined.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 5,010 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,360 ft³/s, May 25, 2001, gage height, 10.05 ft, from rating curve extended above 90 ft³/s and in relation to downstream station 09271550; no flow Aug 29, 31, Sep 1-6, 10, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29 ft³/s, Mar 20, gage height, 7.84 ft; no flow Aug 29, 31, Sep 1-6, 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	12	7.4	e5.0	e5.5	e11	11	5.5	4.0	e1.6	0.10	0.00
2	2.4	8.1	6.8	e5.0	e5.5	e11	9.6	4.6	3.8	e1.2	0.08	0.00
3	2.6	7.3	7.1	e5.5	e5.5	e12	8.3	4.0	3.6	e1.7	0.10	0.00
4	4.9	7.1	6.6	e5.5	e5.5	e12	9.0	4.3	5.7	e1.2	0.07	0.00
5	3.4	7.7	6.3	e6.0	e5.5	e12	9.2	4.3	6.4	e0.73	0.07	0.00
6	3.0	8.3	5.9	e6.0	e6.0	e12	8.7	3.9	5.2	e1.3	0.09	0.00
7	3.1	8.2	6.0	e6.0	e6.0	e13	8.2	5.5	2.8	e0.99	0.15	0.02
8	3.5	8.4	5.9	e6.0	e6.0	e13	6.9	5.8	2.6	e1.0	0.27	0.06
9	9.8	7.5	6.3	e6.0	e6.0	e13	5.5	5.6	2.7	e0.67	0.29	0.06
10	9.4	7.3	e6.0	e6.0	e6.0	14	e7.7	4.7	2.3	e0.72	0.28	0.00
11	4.7	8.8	e6.0	e6.0	e6.0	15	e5.7	6.6	2.8	1.1	0.40	0.03
12	3.7	8.6	e6.0	e6.0	e6.0	17	6.3	6.8	2.6	1.0	0.37	0.41
13	4.7	9.1	e6.0	e5.5	e6.0	18	6.6	4.7	2.2	1.3	0.19	0.71
14	5.4	11	e5.5	e5.5	e6.5	18	7.5	4.4	1.8	1.0	0.38	0.54
15	6.4	8.5	e5.5	e5.5	e6.5	17	8.0	4.1	2.1	0.69	0.46	0.60
16	7.2	8.5	e5.5	e5.5	e6.5	17	8.5	4.6	2.0	0.35	0.41	0.52
17	6.0	7.4	e5.5	e5.5	e7.0	15	9.2	6.7	2.1	0.44	0.35	0.54
18	5.7	7.5	e5.0	e5.5	e7.0	15	9.8	3.5	1.5	0.46	0.29	0.67
19	6.0	5.8	e5.0	e5.0	e7.5	14	7.4	3.4	1.4	0.44	0.29	0.78
20	5.1	4.9	e5.0	e5.0	e9.0	19	7.4	4.2	1.4	0.28	0.11	0.73
21	6.6	7.4	e5.0	e5.0	e9.0	20	10	4.1	1.7	0.26	0.13	0.14
22	6.9	13	e5.0	e5.0	e9.5	20	9.0	5.8	2.4	0.27	0.11	0.06
23	5.5	14	e5.0	e5.0	e10	18	4.7	5.3	2.1	0.48	0.11	0.37
24	5.8	8.2	e5.0	e5.0	e10	15	4.3	8.6	2.1	0.33	0.06	0.62
25	7.2	8.3	e5.0	e5.0	e10	14	4.7	9.8	1.7	0.29	0.04	0.29
26	7.6	8.0	e5.0	e5.0	e10	14	4.3	6.6	1.9	0.28	0.05	0.66
27	8.2	7.8	e5.0	e5.0	e10	14	7.7	4.4	1.9	0.10	0.07	0.93
28	9.0	e7.9	e5.0	e5.0	e11	13	6.3	3.5	1.0	0.12	0.08	0.43
29	8.5	6.8	e5.0	e5.0	---	13	4.8	4.3	1.4	0.11	0.00	0.50
30	7.2	7.3	e4.5	e5.5	---	12	4.0	5.8	e1.2	0.07	0.02	0.56
31	11	---	e4.5	e5.5	---	12	---	3.7	---	0.07	0.00	---
TOTAL	184.3	250.7	173.3	168.0	205.0	453	220.3	159.1	76.4	20.55	5.42	10.23
MEAN	5.945	8.357	5.590	5.419	7.321	14.61	7.343	5.132	2.547	0.663	0.175	0.341
MAX	11	14	7.4	6.0	11	20	11	9.8	6.4	1.7	0.46	0.93
MIN	2.4	4.9	4.5	5.0	5.5	11	4.0	3.4	1.0	0.07	0.00	0.00
AC-FT	366	497	344	333	407	899	437	316	152	41	11	20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	MEAN	5.837	8.338	8.428	8.454	9.291	11.07	7.582	227.0	51.44	2.947	2.426	2.221
MAX	5.95	8.36	12.7	12.5	12.9	14.6	8.39	530	145	4.26	3.58	3.23	
(WY)	2002	2002	2000	2000	2000	2002	2000	2001	2001	2000	2001	2001	
MIN	5.73	8.32	5.59	5.42	7.32	8.49	7.02	5.13	2.55	0.66	0.17	0.34	
(WY)	2001	2001	2002	2002	2002	2001	2001	2002	2002	2002	2002	2002	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 2000 - 2002

ANNUAL TOTAL	22644.8	1926.30	
ANNUAL MEAN	62.04	5.278	33.71
HIGHEST ANNUAL MEAN			62.1
LOWEST ANNUAL MEAN			5.28
HIGHEST DAILY MEAN	960	20	960
LOWEST DAILY MEAN	1.3	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	1.7	0.00	0.00
ANNUAL RUNOFF (AC-FT)	44920	3820	24420
10 PERCENT EXCEEDS	36	11	12
50 PERCENT EXCEEDS	6.7	5.1	6.0
90 PERCENT EXCEEDS	3.0	0.15	0.67

e Estimated

09271400 ASHLEY CREEK NEAR NAPLES, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 18, 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 18, 2000 to current year.

WATER TEMPERATURE: March 18, 2000 to current year.

INSTRUMENTATION.--Water-quality monitor since March 18, 2000.

REMARKS.--Specific conductance and temperature records good. Partial record, since the instrument is removed during winter months.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 7,080 microsiemens, Jul 4, 2002; minimum observed, 110 microsiemens, May 24, 2001.

WATER TEMPERATURE: Maximum recorded, 30.7°C, Jul 22, 2000; minimum recorded, 0.2°C, Mar 21, 2000, observed 0.2°C, Jan 23, 2002.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 7,080 microsiemens, Jul 4; minimum observed, 980 microsiemens, Jan 23.

WATER TEMPERATURE: Maximum recorded, 28.2°C, May 30; minimum observed, 0.2°C Jan 23.

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

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	HARD-NESS NONCARB DISSOLV LAB AS CAC03 (MG/L) (00905)	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)	SODIUM PERCENT (00932)	
OCT 10...	1155	10	1580	12.0	11.5	790	500	175	85.0	6.37	.8	54.5	13	
Date	Time	ALKALINITY WAT.DIS FET LAB CAC03 (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 SI02) (00955)	SULFATE DIS-SOLVED (MG/L AS S04) (00945)	GAGE HEIGHT (FEET) (00065)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
OCT 10...	290	23.2	.8	19.0	595	7.84	1.52	30.5	1120	1130	31	30.4	2.9	
Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	GAGE HEIGHT (FEET) (00065)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)		
NOV 08...	1700	8.6	--	--	--	8.0	1530	12.4	11.5	7.82	1110	2.5		
DEC 10...	1640	6.3	--	--	--	8.0	1540	3.0	.3	--	1100	3.5		
JAN 23...	1125	5.0	626	105	12.5	7.5	980	-2.5	.2	--	1080	2		
FEB 27...	1030	10	631	110	13.1	8.0	1520	.0	.4	--	1150	4		
APR 23...	0940	4.6	638	112	11.0	8.1	1620	--	7.9	7.65	1310	2.6		
MAY 16...	0755	--	--	--	--	7.9	1580	--	--	--	1290	2.9		
MAY 21...	1645	4.4	631	--	--	8.3	1500	17.0	15.6	7.74	1200	4.0		
JUN 19...	1055	--	--	--	--	7.8	1580	--	--	--	1310	3.4		
JUL 11...	1030	1.8	639	123	9.1	7.8	1500	--	21.1	7.76	1210	2.5		
JUL 24...	1610	3.3	--	--	--	8.3	1490	--	28.0	--	1220	2.5		
AUG 15...	1000	.65	633	63	5.1	7.7	1680	20.6	16.5	7.60	1430	2.9		

GREEN RIVER BASIN

09271400 ASHLEY CREEK NEAR NAPLES, UT--Continued

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	6080	1380	2830	---	---	---	---	---	---	---	---	---
2	5630	1440	2660	---	---	---	---	---	---	---	---	---
3	6080	5160	5690	---	---	---	---	---	---	---	---	---
4	5490	1450	1820	---	---	---	---	---	---	---	---	---
5	1750	1570	1630	---	---	---	---	---	---	---	---	---
6	2120	1550	1660	---	---	---	---	---	---	---	---	---
7	3350	1500	1820	---	---	---	---	---	---	---	---	---
8	3690	1540	2420	---	---	---	---	---	---	---	---	---
9	1740	1460	1600	---	---	---	---	---	---	---	---	---
10	1580	1490	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	---	1710	1520	1600
2	---	---	---	---	---	---	---	---	---	1600	1480	1510
3	---	---	---	---	---	---	---	---	---	1600	1510	1540
4	---	---	---	---	---	---	---	---	---	1720	1600	1650
5	---	---	---	---	---	---	---	---	---	1780	1620	1710
6	---	---	---	---	---	---	---	---	---	1740	1620	1700
7	---	---	---	---	---	---	---	---	---	1620	1450	1550
8	---	---	---	---	---	---	---	---	---	1450	1340	1390
9	---	---	---	---	---	---	---	---	---	1360	1310	1340
10	---	---	---	---	---	---	---	---	---	1440	1320	1380
11	---	---	---	---	---	---	1620	1600	1610	1440	1340	1390
12	---	---	---	---	---	---	1630	1600	1620	1530	1330	1430
13	---	---	---	---	---	---	1650	1620	1630	1540	1480	1510
14	---	---	---	---	---	---	1660	1600	1630	1630	1500	1560
15	---	---	---	---	---	---	1660	1610	1630	1630	1560	1580
16	---	---	---	---	---	---	1690	1630	1670	1620	1570	1600
17	---	---	---	---	---	---	1690	1630	1660	1610	1580	1590
18	---	---	---	---	---	---	1780	1630	1670	1610	1540	1560
19	---	---	---	---	---	---	1810	1720	1760	1570	1480	1530
20	---	---	---	---	---	---	1940	1730	1780	1490	1470	1480
21	---	---	---	---	---	---	2080	1630	1820	1540	1480	1510
22	---	---	---	---	---	---	1780	1630	1680	1530	1370	1470
23	---	---	---	---	---	---	1680	1520	1590	1500	1380	1450
24	---	---	---	---	---	---	1950	1640	1760	1490	1400	1450
25	---	---	---	---	---	---	1950	1760	1830	1400	1370	1380
26	---	---	---	---	---	---	1810	1640	1690	1440	1380	1410
27	---	---	---	---	---	---	1760	1600	1670	1580	1440	1520
28	---	---	---	---	---	---	1720	1570	1610	1600	1460	1500
29	---	---	---	---	---	---	1710	1530	1580	1610	1530	1550
30	---	---	---	---	---	---	1730	1600	1670	1650	1530	1610
31	---	---	---	---	---	---	---	---	---	1710	1590	1670
MONTH	---	---	---	---	---	---	---	---	---	1780	1310	1520

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

[illegible]

GREEN RIVER BASIN

09271400 ASHLEY CREEK NEAR NAPLES, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	---	18.8	8.5	13.4
2	---	---	---	---	---	---	---	---	---	19.6	7.7	13.4
3	---	---	---	---	---	---	---	---	---	17.8	8.4	13.3
4	---	---	---	---	---	---	---	---	---	20.7	8.5	14.4
5	---	---	---	---	---	---	---	---	---	20.5	9.1	14.7
6	---	---	---	---	---	---	---	---	---	21.0	9.1	15.0
7	---	---	---	---	---	---	---	---	---	19.2	9.9	14.7
8	---	---	---	---	---	---	---	---	---	19.1	7.9	13.4
9	---	---	---	---	---	---	---	---	---	19.5	6.5	12.9
10	---	---	---	---	---	---	---	---	---	15.0	9.1	12.0
11	---	---	---	---	---	---	16.8	---	---	17.8	8.8	12.6
12	---	---	---	---	---	---	14.5	6.8	10.2	20.9	8.1	13.9
13	---	---	---	---	---	---	18.8	6.0	12.0	22.3	9.1	15.4
14	---	---	---	---	---	---	16.7	8.4	12.6	21.4	10.9	16.0
15	---	---	---	---	---	---	12.8	8.5	10.3	22.5	11.8	16.7
16	---	---	---	---	---	---	16.3	6.4	10.9	18.2	11.8	14.8
17	---	---	---	---	---	---	11.2	5.8	8.6	25.0	9.2	16.5
18	---	---	---	---	---	---	15.1	5.7	9.4	23.5	12.0	17.5
19	---	---	---	---	---	---	18.2	7.3	11.6	24.4	11.8	18.1
20	---	---	---	---	---	---	11.9	4.9	8.5	22.2	14.6	18.4
21	---	---	---	---	---	---	16.7	4.0	9.8	16.9	11.5	13.8
22	---	---	---	---	---	---	17.6	4.7	10.9	19.9	7.7	13.4
23	---	---	---	---	---	---	17.8	6.7	12.0	20.1	8.6	14.0
24	---	---	---	---	---	---	18.7	6.5	12.2	21.8	10.2	15.5
25	---	---	---	---	---	---	19.2	8.0	13.2	24.1	9.7	16.4
26	---	---	---	---	---	---	19.5	10.0	14.4	25.0	11.3	17.8
27	---	---	---	---	---	---	14.3	9.2	11.8	25.1	12.6	18.7
28	---	---	---	---	---	---	17.9	7.1	12.1	24.6	13.1	18.8
29	---	---	---	---	---	---	19.9	7.7	13.5	21.2	14.1	18.0
30	---	---	---	---	---	---	20.0	8.8	14.2	28.2	13.0	20.1
31	---	---	---	---	---	---	---	---	---	26.4	15.2	20.9
MONTH	---	---	---	---	---	---	---	---	---	28.2	6.5	15.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	22.1	16.8	19.5	23.0	17.0	21.0	24.1	19.8	22.2	20.3	16.0	18.4
2	22.3	13.6	18.0	23.5	19.3	21.7	23.6	20.8	22.1	20.1	16.3	18.3
3	18.8	15.1	16.8	22.5	18.4	20.7	24.5	19.3	21.7	19.9	16.9	18.4
4	24.4	11.8	17.7	21.9	16.4	19.0	24.7	19.0	21.9	19.8	16.1	17.9
5	26.4	13.2	19.5	22.6	18.0	20.4	24.1	20.2	22.2	21.0	18.0	19.5
6	25.6	14.1	20.0	23.0	17.8	20.9	23.9	19.8	21.9	20.5	17.8	18.9
7	24.6	15.3	20.2	23.4	18.6	21.6	24.8	20.9	22.7	19.7	17.4	18.5
8	23.8	15.5	19.3	24.4	19.1	22.2	24.0	19.0	21.7	20.8	16.8	18.4
9	22.9	13.6	18.1	25.6	20.2	23.4	22.8	16.8	19.9	20.0	15.8	17.8
10	23.3	11.7	17.4	26.2	21.0	24.0	22.5	17.3	20.1	19.9	16.0	18.1
11	23.9	12.0	18.0	25.9	19.7	23.4	22.8	17.4	20.3	19.8	18.5	19.1
12	25.3	13.6	19.3	26.0	21.3	23.7	22.2	17.5	20.1	19.7	15.8	17.7
13	24.2	15.0	19.8	26.1	19.0	23.2	20.8	16.2	18.6	22.1	14.5	18.0
14	22.6	15.4	19.8	26.3	22.2	24.4	21.5	16.4	19.1	23.4	14.8	18.8
15	22.5	15.6	20.1	26.0	22.5	24.2	21.8	16.4	19.2	23.0	14.5	18.5
16	28.0	17.1	21.8	25.8	21.5	23.7	21.6	16.6	19.3	22.3	14.8	18.3
17	23.6	15.7	20.2	27.0	22.0	24.2	20.9	16.2	18.8	18.9	14.9	16.9
18	22.7	15.6	19.7	26.5	22.1	24.2	21.7	17.0	19.4	18.6	15.0	16.6
19	25.7	17.3	21.3	25.3	22.2	23.6	21.1	16.7	18.9	19.9	13.3	16.5
20	26.1	17.4	21.5	24.5	21.1	22.6	22.2	19.3	20.8	20.0	13.3	16.6
21	23.4	17.5	20.8	25.4	19.6	22.4	21.9	18.5	20.4	18.0	13.4	15.8
22	25.1	16.5	20.9	25.8	20.5	23.3	21.7	17.4	19.7	17.1	12.8	15.1
23	25.4	16.5	20.9	25.9	22.2	24.0	21.0	17.0	19.1	18.9	12.4	15.9
24	24.3	17.7	21.4	24.6	19.6	22.3	21.9	17.2	19.6	18.8	11.8	15.7
25	24.4	18.1	21.8	25.5	21.5	23.1	21.1	16.3	18.9	17.1	13.8	15.6
26	23.9	18.5	21.9	25.2	19.9	22.3	21.2	16.2	19.0	19.2	13.1	16.4
27	24.3	17.7	21.8	24.7	19.6	22.0	21.9	17.4	19.7	17.3	11.7	14.9
28	23.8	19.6	22.1	25.2	19.2	22.2	21.6	17.1	19.5	17.5	13.2	15.1
29	23.4	18.4	21.6	25.2	18.9	22.2	21.6	18.4	19.9	16.5	14.7	15.6
30	23.2	19.2	21.5	25.1	19.5	22.5	19.1	14.6	16.8	16.5	13.0	14.7
31	---	---	---	24.5	19.5	22.4	19.9	15.9	18.0	---	---	---
MONTH	28.0	11.7	20.1	27.0	16.4	22.6	24.8	14.6	20.0	23.4	11.7	17.2

09271450 ASHLEY CREEK BELOW SADLIER DRAW NEAR NAPLES, UT

LOCATION.--Lat 40°23'53", long 109°25'44", in SE¹/₄SW¹/₄SW¹/₄ sec. 10, T. 5 S., R. 22 E., Uintah County, Hydrologic Unit 14060002, on right bank about 50 ft below county road bridge, east of Naples.

DRAINAGE AREA.--Not determined.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 4,870 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,140 ft³/s, May 25, 2001; no flow many days in Jul, Aug, Sep, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 36 ft³/s, Nov 23; no flow many days in Jul, Aug, Sep.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	25	24	e21	e18	19	20	13	7.4	1.7	e0.00	e0.30
2	11	21	24	e22	e17	e22	20	13	4.6	3.2	e0.00	e0.40
3	10	20	23	e21	e17	e21	18	14	4.2	4.2	e0.50	e0.50
4	15	19	22	e21	e18	e20	17	18	11	3.0	e0.00	e0.60
5	15	20	21	e20	e18	e20	17	15	14	3.5	e0.00	e0.00
6	15	21	21	e19	e18	20	16	16	11	5.9	e0.00	e0.10
7	15	21	22	e19	e17	24	16	17	5.6	5.1	e0.00	1.6
8	13	e20	e21	e18	e17	e22	15	18	8.2	5.3	e0.00	1.7
9	22	20	e21	e19	e17	e20	11	15	14	3.3	e0.00	1.8
10	35	19	e22	e20	e18	19	12	11	15	2.0	e0.00	e0.30
11	23	21	e22	e20	e18	21	e12	4.0	18	2.5	e0.00	0.85
12	16	21	e21	e21	e18	23	12	5.9	14	4.4	e0.00	13
13	17	21	e20	e21	e19	28	12	3.5	12	2.4	e0.00	29
14	20	24	e19	e20	e19	26	12	2.0	11	1.6	e0.00	3.3
15	20	22	e19	e19	e20	24	13	3.0	9.7	2.5	e0.00	1.8
16	19	21	e20	e18	e20	25	13	4.5	3.5	e0.05	e0.00	3.5
17	19	21	e21	e17	e21	24	12	11	3.9	e0.60	e0.00	6.0
18	16	21	e20	e17	e21	23	12	9.5	3.8	e0.00	e0.00	6.3
19	17	19	e19	e18	e21	23	10	4.4	0.61	e0.00	e0.00	6.6
20	15	18	e18	e18	e22	24	10	4.4	0.78	1.1	e0.10	6.7
21	18	20	e17	e19	e22	28	12	2.5	1.6	1.1	e0.10	5.2
22	18	28	e17	e19	21	29	13	3.8	2.8	1.5	e0.00	2.9
23	18	36	e17	e19	20	28	10	3.8	1.7	e0.00	e0.00	3.2
24	17	26	e18	e20	21	25	9.2	5.6	3.8	e0.00	e0.00	4.4
25	20	24	e18	e21	e20	24	9.7	9.2	e0.75	e0.30	e0.50	4.6
26	20	24	e18	e20	e19	24	10	9.9	2.7	e0.10	e0.20	3.8
27	22	23	e18	e21	e19	24	12	5.2	1.6	e0.05	e0.20	5.5
28	22	24	e19	e19	e19	24	15	5.3	1.2	e0.08	e0.50	4.3
29	24	22	e19	e18	---	23	13	2.9	0.24	e0.05	e0.00	4.5
30	22	24	e20	e19	---	22	10	4.2	2.6	e0.00	e0.50	5.2
31	24	---	e21	e21	---	21	---	4.6	---	e0.00	e0.10	---
TOTAL	571	666	622	605	535	720	393.9	259.2	191.28	55.53	2.70	127.95
MEAN	18.42	22.20	20.06	19.52	19.11	23.23	13.13	8.361	6.376	1.791	0.087	4.265
MAX	35	36	24	22	22	29	20	18	18	5.9	0.50	29
MIN	10	18	17	17	17	19	9.2	2.0	0.24	0.00	0.00	0.00
AC-FT	1130	1320	1230	1200	1060	1430	781	514	379	110	5.4	254

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

	MEAN	15.34	21.08	18.66	20.31	21.35	21.23	9.900	297.9	47.57	1.958	1.678	5.144
MAX	18.4	22.2	21.6	21.5	25.7	23.4	13.1	587	133	3.52	4.10	7.90	
(WY)	2002	2002	2000	2000	2000	2000	2002	2001	2001	2001	2001	2001	2001
MIN	12.3	20.0	14.3	19.5	19.1	17.0	6.82	8.36	3.78	0.57	0.087	3.27	
(WY)	2001	2001	2001	2002	2001	2001	2001	2002	2000	2000	2002	2000	2000

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 2000 - 2002

ANNUAL TOTAL	26389.41	4749.56	
ANNUAL MEAN	72.30	13.01	
HIGHEST ANNUAL MEAN			42.06
LOWEST ANNUAL MEAN			71.1
HIGHEST DAILY MEAN	1140	May 25	2001
LOWEST DAILY MEAN	0.27	Aug 3	2002
ANNUAL SEVEN-DAY MINIMUM	0.59	Jul 28	2001
ANNUAL RUNOFF (AC-FT)	52340		1140
10 PERCENT EXCEEDS	35		0.00
50 PERCENT EXCEEDS	17		0.00
90 PERCENT EXCEEDS	3.0		0.00
			Aug 4 2002
			30470
			24
			15
			1.5

e Estimated

09271450 ASHLEY CREEK BELOW SADLIER DRAW NEAR NAPLES, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 17, 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 17, 2000 to current year.

WATER TEMPERATURE: March 17, 2000 to current year.

INSTRUMENTATION.--Water-quality monitor since March 17, 2000.

REMARKS.--Specific conductance and temperature records good. Partial record, since the instrument is removed during the winter months.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 7,440 microsiemens in a stagnant pool during zero flow, Aug 20, 2002; minimum recorded, 114 microsiemens, May 24, 2001.

WATER TEMPERATURE: Maximum recorded, 32.6°C, Jul 9, 2002; minimum observed, 0.2°C, Jan 23, 2002.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 7,440 microsiemens in a stagnant pool during zero flow, Aug 20; minimum recorded, 1,330 microsiemens, Sep 12.

WATER TEMPERATURE: Maximum recorded, 32.6°C, July 9; minimum observed, 0.2°C, Jan 23.

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

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L) CAC03 (00900)	HARD-NESS NONCARB DISSOLV LAB AS CAC03 (MG/L) (00905)	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-SORPTION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L) AS NA (00930)	SODIUM PERCENT (00932)	ALKA-LINITY WAT.DIS FET LAB CAC03 (MG/L) (29801)
OCT 03...	1600	11	1890	19.0	900	640	198	98.1	5.75	1	98.6	19	264
Date	Time	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) AS F (00950)	SILICA, DIS-SOLVED (MG/L) AS SI02 (00955)	SULFATE DIS-SOLVED (MG/L) AS S04 (00945)	GAGE HEIGHT (FEET) (00065)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	IRON, DIS-SOLVED (UG/L) AS FE (01046)	MANGA-NESE, DIS-SOLVED (UG/L) AS MN (01056)	SELE-NIUM, DIS-SOLVED (UG/L) AS SE (01145)
OCT 03...	27.1	.8	13.7	815	6.27	2.12	47.2	1560	1420	45	16.9	32.3	
Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CONDUCTANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	GAGE HEIGHT (FEET) (00065)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SELE-NIUM, DIS-SOLVED (UG/L) AS SE (01145)	
NOV 08...	1400	20	--	--	--	8.6	1830	15.3	10.6	6.46	1580	31.8	
DEC 11...	1545	22	--	--	--	8.3	1920	.1	.7	--	1580	43.7	
JAN 23...	1415	19	630	126	15.0	8.3	1780	-1.2	.2	--	1470	30	
FEB 27...	1230	19	631	--	--	8.3	1810	4.0	1.6	6.45	1510	39	
APR 23...	1340	11	--	--	--	8.6	1920	--	16.5	6.22	1680	62.0	
MAY 16...	1700	--	--	--	--	8.9	1750	--	--	--	1500	52.7	
MAY 21...	1100	.55	631	--	--	8.4	2100	17.0	14.2	5.88	1820	43.8	
JUN 19...	0745	--	--	--	--	7.7	1920	--	--	--	1610	50.9	
JUL 10...	1440	.14	645	232	15.3	8.6	1600	--	27.6	5.86	1370	48.1	
JUL 24...	1645	.22	--	--	--	8.6	3060	--	28.0	--	2710	59	
AUG 15...	1600	.0	633	128	8.7	7.8	7380	--	24.0	5.67	7680	68	

09271450 ASHLEY CREEK BELOW SADLIER DRAW NEAR NAPLES, UT--Continued

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	1960	1780	1890	1820	1660	1770	---	---	---	---	---	---
2	1910	1800	1870	1770	1670	1710	---	---	---	---	---	---
3	1920	1850	1880	1820	1700	1740	---	---	---	---	---	---
4	1920	1680	1810	1880	1770	1820	---	---	---	---	---	---
5	1810	1610	1700	1920	1840	1870	---	---	---	---	---	---
6	1670	1490	1610	1840	1760	1810	---	---	---	---	---	---
7	1730	1520	1620	1790	1700	1760	---	---	---	---	---	---
8	1780	1720	1750	---	---	---	---	---	---	---	---	---
9	1940	1770	1860	---	---	---	---	---	---	---	---	---
10	2000	1640	1790	---	---	---	---	---	---	---	---	---
11	1800	1640	1690	---	---	---	---	---	---	---	---	---
12	1880	1780	1820	---	---	---	---	---	---	---	---	---
13	1900	1840	1870	---	---	---	---	---	---	---	---	---
14	1900	1800	1840	---	---	---	---	---	---	---	---	---
15	1820	1730	1770	---	---	---	---	---	---	---	---	---
16	1800	1740	1780	---	---	---	---	---	---	---	---	---
17	1810	1720	1760	---	---	---	---	---	---	---	---	---
18	1830	1770	1800	---	---	---	---	---	---	---	---	---
19	1820	1710	1760	---	---	---	---	---	---	---	---	---
20	1770	1680	1720	---	---	---	---	---	---	---	---	---
21	1760	1710	1720	---	---	---	---	---	---	---	---	---
22	1750	1680	1710	---	---	---	---	---	---	---	---	---
23	1730	1680	1700	---	---	---	---	---	---	---	---	---
24	1740	1650	1680	---	---	---	---	---	---	---	---	---
25	1780	1700	1740	---	---	---	---	---	---	---	---	---
26	1790	1730	1760	---	---	---	---	---	---	---	---	---
27	1870	1760	1810	---	---	---	---	---	---	---	---	---
28	1860	1770	1810	---	---	---	---	---	---	---	---	---
29	1820	1620	1770	---	---	---	---	---	---	---	---	---
30	1840	1710	1760	---	---	---	---	---	---	---	---	---
31	1850	1750	1810	---	---	---	---	---	---	---	---	---
MONTH	2000	1490	1770	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	---	1900	1730	1820
2	---	---	---	---	---	---	---	---	---	1850	1760	1820
3	---	---	---	---	---	---	---	---	---	1880	1750	1820
4	---	---	---	---	---	---	---	---	---	2020	1580	1730
5	---	---	---	---	---	---	---	---	---	1740	1580	1640
6	---	---	---	---	---	---	---	---	---	2130	1740	1860
7	---	---	---	---	---	---	---	---	---	1890	1790	1840
8	---	---	---	---	---	---	---	---	---	1840	1760	1800
9	---	---	---	---	---	---	---	---	---	1840	1680	1760
10	---	---	---	---	---	---	---	---	---	1790	1660	1700
11	---	---	---	---	---	---	1960	1860	---	1980	1760	1880
12	---	---	---	---	---	---	1970	1900	1940	1810	1710	1730
13	---	---	---	---	---	---	1980	1830	1880	2080	1740	1840
14	---	---	---	---	---	---	1970	1870	1900	2020	1880	1960
15	---	---	---	---	---	---	2120	1950	2030	1970	1820	1900
16	---	---	---	---	---	---	2020	1910	1950	1920	1760	1850
17	---	---	---	---	---	---	1950	1820	1870	1860	1450	1680
18	---	---	---	---	---	---	1940	1820	1880	1830	1540	1680
19	---	---	---	---	---	---	1980	1860	1890	1910	1790	1860
20	---	---	---	---	---	---	2000	1840	1930	1960	1820	1890
21	---	---	---	---	---	---	1990	1890	1930	2320	1900	2110
22	---	---	---	---	---	---	2000	1910	1950	2520	2020	2120
23	---	---	---	---	---	---	2000	1890	1930	2330	1990	2120
24	---	---	---	---	---	---	2040	1950	1990	2340	1770	2130
25	---	---	---	---	---	---	2070	1900	1970	2070	1800	1930
26	---	---	---	---	---	---	2040	1900	1970	1990	1640	1820
27	---	---	---	---	---	---	2000	1810	1910	1910	1670	1800
28	---	---	---	---	---	---	1910	1740	1800	1900	1730	1840
29	---	---	---	---	---	---	1810	1740	1760	2040	1790	1890
30	---	---	---	---	---	---	1880	1800	1840	1950	1820	1850
31	---	---	---	---	---	---	---	---	---	2050	1820	1890
MONTH	---	---	---	---	---	---	---	---	---	2520	1450	1860

GREEN RIVER BASIN

09271450 ASHLEY CREEK BELOW SADLIER DRAW NEAR NAPLES, UT--Continued

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	1850	1780	1810	1940	1680	1850	5140	4790	5010	3110	1490	2310
2	2310	1850	2060	1810	1640	1700	5470	5140	5360	2030	1440	1620
3	2180	1830	2010	1720	1580	1670	5710	3370	4840	2060	1460	1610
4	1830	1700	1770	1860	1560	1650	4510	3530	3850	1720	1440	1530
5	1920	1710	1830	1770	1600	1680	5210	4510	4870	2270	1660	1930
6	1850	1770	1810	2180	1570	1690	5500	5210	5400	2860	1580	2540
7	2020	1840	1920	1920	1540	1620	5890	5490	5730	1580	1390	1420
8	2050	1820	1960	1620	1520	1560	6210	5890	6090	1650	1360	1470
9	1820	1680	1740	1680	1470	1550	6440	6210	6350	1490	1360	1440
10	1830	1710	1790	1660	1540	1580	6680	6440	6560	1680	1430	1520
11	1850	1670	1760	1700	1520	1590	6830	6650	6710	1710	1460	1520
12	1820	1710	1760	1620	1410	1490	6970	6790	6880	1940	1330	1560
13	1840	1720	1780	1680	1480	1550	7020	6890	6970	2140	1440	1630
14	1860	1760	1810	1890	1530	1640	7120	6970	7060	2200	2070	2130
15	1790	1660	1720	1960	1510	1640	7110	5030	6980	2080	1920	2040
16	2120	1700	1790	2960	1960	2380	7280	7040	7180	1940	1850	1900
17	2220	1650	1800	3260	1910	2490	7290	7060	7220	1870	1720	1810
18	1880	1670	1810	3430	2430	2790	7330	7100	7270	1760	1700	1730
19	2270	1820	2040	3810	3400	3610	7390	7180	7320	1760	1660	1710
20	2480	1860	2080	3630	1640	2090	7440	6080	7010	1720	1640	1680
21	2480	1990	2100	2000	1600	1720	6080	4130	5130	1810	1660	1730
22	1990	1750	1840	1950	1510	1710	4300	2960	3800	1850	1800	1810
23	2070	1810	1890	2820	1950	2320	4530	3790	4080	1830	1640	1710
24	1830	1660	1730	3560	2820	3160	3950	3280	3630	1660	1540	1590
25	2170	1730	1910	3800	2630	3530	4230	2110	3200	1750	1380	1620
26	2700	1760	2130	2900	2490	2710	2340	1750	2100	1790	1690	1750
27	2700	2360	2500	3360	2770	3050	2710	1530	2010	1770	1620	1700
28	2750	2300	2470	3740	3320	3540	2130	1440	1610	1870	1580	1700
29	3040	2470	2880	3760	3170	3370	2750	1800	2100	1860	1750	1790
30	2470	1680	1940	4310	3760	4020	3260	2490	2890	1780	1680	1720
31	---	---	---	4790	4310	4580	2520	1910	2100	---	---	---
MONTH	3040	1650	1950	4790	1410	2310	7440	1440	5070	3110	1330	1740

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

[illegible]

09271450 ASHLEY CREEK BELOW SADLIER DRAW NEAR NAPLES, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	---	18.6	11.4	14.8
2	---	---	---	---	---	---	---	---	---	20.2	10.7	15.0
3	---	---	---	---	---	---	---	---	---	17.9	11.4	14.7
4	---	---	---	---	---	---	---	---	---	20.1	11.3	15.5
5	---	---	---	---	---	---	---	---	---	20.8	12.3	16.2
6	---	---	---	---	---	---	---	---	---	21.7	12.3	16.7
7	---	---	---	---	---	---	---	---	---	19.5	13.3	16.3
8	---	---	---	---	---	---	---	---	---	18.5	10.0	14.2
9	---	---	---	---	---	---	---	---	---	18.3	9.7	14.0
10	---	---	---	---	---	---	---	---	---	15.6	11.9	13.7
11	---	---	---	---	---	---	16.5	---	---	17.5	10.7	13.6
12	---	---	---	---	---	---	16.0	9.8	12.3	20.2	10.2	14.6
13	---	---	---	---	---	---	18.4	9.0	13.4	22.1	11.8	16.4
14	---	---	---	---	---	---	17.3	11.4	14.2	22.0	13.7	17.5
15	---	---	---	---	---	---	14.0	10.6	11.9	22.3	14.4	18.1
16	---	---	---	---	---	---	16.4	8.2	12.0	18.8	14.0	16.3
17	---	---	---	---	---	---	12.1	8.9	10.4	21.6	12.0	16.8
18	---	---	---	---	---	---	14.8	7.5	10.3	23.3	14.4	18.4
19	---	---	---	---	---	---	17.6	9.4	12.6	25.2	13.9	19.0
20	---	---	---	---	---	---	12.5	7.6	10.1	23.3	17.1	19.8
21	---	---	---	---	---	---	16.5	6.5	11.0	18.3	12.8	15.3
22	---	---	---	---	---	---	17.3	8.3	12.6	19.6	9.9	14.1
23	---	---	---	---	---	---	18.4	9.8	13.6	19.4	10.0	14.8
24	---	---	---	---	---	---	19.2	9.2	13.6	20.9	12.3	16.3
25	---	---	---	---	---	---	19.8	11.0	14.7	22.7	12.5	17.4
26	---	---	---	---	---	---	20.6	12.3	15.8	23.6	14.4	18.9
27	---	---	---	---	---	---	15.0	11.9	13.5	25.2	15.8	19.9
28	---	---	---	---	---	---	17.2	9.8	13.3	24.6	15.7	20.0
29	---	---	---	---	---	---	19.8	10.3	14.8	22.2	16.3	19.5
30	---	---	---	---	---	---	21.0	11.5	15.7	27.3	15.6	21.0
31	---	---	---	---	---	---	---	---	---	26.7	18.1	22.3
MONTH	---	---	---	---	---	---	---	---	---	27.3	9.7	16.8
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	23.7	19.2	21.3	27.6	19.7	23.4	25.7	20.9	23.6	22.4	16.9	19.9
2	22.6	15.8	19.1	29.8	20.7	24.5	24.1	21.5	22.5	22.9	15.5	19.5
3	20.3	16.7	18.0	27.5	22.4	24.7	24.2	19.7	21.9	21.1	16.5	18.8
4	24.2	13.8	18.5	28.8	21.3	24.9	26.4	18.9	22.5	23.5	15.7	19.3
5	24.2	15.9	20.1	29.4	21.4	25.2	27.0	20.1	23.3	23.1	18.5	20.7
6	26.7	16.8	21.4	30.3	21.1	25.2	26.1	20.3	23.4	21.3	18.3	19.5
7	26.4	17.4	21.6	31.2	20.7	25.4	26.4	21.0	23.6	20.2	17.4	18.7
8	24.0	17.5	20.5	31.6	22.1	26.4	25.8	19.7	22.9	22.1	16.9	19.1
9	23.6	15.6	19.2	32.6	21.9	26.7	25.5	17.6	21.5	23.4	16.9	19.8
10	23.1	13.9	18.2	29.7	21.6	25.7	25.3	18.0	21.7	23.0	16.5	19.8
11	23.5	14.6	19.0	31.0	21.4	26.1	25.9	18.0	21.8	20.4	17.9	19.1
12	25.4	15.8	20.2	30.5	20.9	25.5	25.1	18.8	21.7	19.0	15.9	17.0
13	26.3	16.8	21.2	29.3	19.9	24.4	23.9	17.4	20.5	21.4	15.5	17.9
14	30.5	17.5	22.1	29.5	20.7	24.9	25.6	17.9	21.3	23.7	16.5	19.8
15	26.3	18.2	21.8	29.1	21.6	25.3	25.6	17.5	21.2	24.0	16.1	19.5
16	27.1	18.0	22.5	29.0	21.1	24.7	24.8	18.1	21.3	23.4	16.1	19.0
17	27.5	18.0	22.9	29.3	21.7	24.6	24.4	17.6	20.4	19.9	15.9	17.6
18	28.0	17.9	22.6	27.8	21.8	24.9	24.9	18.4	21.3	18.5	15.1	16.5
19	26.3	18.8	22.4	26.1	22.3	24.0	24.8	17.9	20.9	20.0	13.2	16.2
20	26.1	18.8	22.4	25.3	20.8	23.0	23.3	20.2	21.9	20.9	13.8	16.9
21	23.4	19.2	21.8	28.3	19.1	23.6	24.1	20.6	22.6	21.6	14.3	17.3
22	26.6	18.3	22.5	28.8	20.0	24.4	24.1	20.2	22.3	20.8	13.2	16.6
23	27.1	18.3	22.5	27.5	22.5	25.0	22.9	18.9	21.4	20.7	13.0	16.4
24	28.8	19.4	23.4	26.5	20.5	23.8	25.0	19.5	22.0	20.6	13.0	16.4
25	27.3	20.0	23.6	26.0	21.7	23.8	23.8	18.2	21.0	18.7	14.4	16.4
26	28.3	20.8	24.1	26.0	20.3	23.2	23.4	17.4	20.7	20.6	13.7	16.7
27	28.7	20.5	24.2	25.7	20.3	23.2	23.8	18.4	21.3	19.8	12.8	15.9
28	29.1	20.4	24.2	26.8	20.0	23.7	24.6	17.6	21.1	19.3	13.8	16.2
29	27.8	20.0	23.8	27.8	19.9	24.0	22.8	19.4	20.4	16.8	14.3	15.5
30	27.9	19.2	23.4	28.5	20.7	24.6	20.6	15.7	18.8	18.5	12.5	15.0
31	---	---	---	27.4	20.8	24.2	21.5	16.7	19.3	---	---	---
MONTH	30.5	13.8	21.6	32.6	19.1	24.6	27.0	15.7	21.6	24.0	12.5	17.9

09271550 ASHLEY CREEK BELOW UNION CANAL DIVERSION NEAR JENSEN, UT

LOCATION.--Lat 40°21'29", long 109°23'13", in NW¹/₄SE¹/₄NE¹/₄ sec. 25, T. 5 S., R. 22 E., Uintah County, Hydrologic Unit 14060002, on right bank about 0.5 mi below Union Canal diversion 75 ft below county road bridge, 1.7 mi above mouth and 2.5 mi southwest of Jensen.

DRAINAGE AREA.--389 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1991 to September 2002 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 4,740 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,300 ft³/s, Jun 16, 1995, gage height, 6.34 ft, from high water mark, and rating curve extended above 1,800 ft³/s; no flow several days in Jul, Aug, Sep, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48 ft³/s, Mar 11, gage height, 2.51 ft; no flow several days in Jul, Aug, Sep.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	17	19	e20	e15	e20	7.0	2.7	0.90	0.03	e0.00	e0.00
2	2.6	16	19	e20	e16	e17	6.6	1.5	1.2	0.02	e0.00	e0.00
3	2.1	15	19	e20	e15	e21	5.8	1.3	1.2	0.02	e0.00	e0.00
4	2.2	15	19	e20	e16	e19	5.2	1.3	0.77	e0.02	e0.00	e0.00
5	2.4	15	e18	e19	e16	e23	2.3	1.5	1.6	0.06	e0.00	e0.00
6	2.5	14	e17	e18	e16	e19	2.4	2.1	4.5	0.05	e0.00	e0.00
7	2.7	13	e17	e17	e15	e17	2.2	3.9	2.1	0.02	e0.00	e0.00
8	2.2	13	e17	e16	e16	e15	2.0	2.4	1.4	0.03	e0.00	e0.00
9	3.8	13	e16	e17	e17	e12	1.4	1.8	1.6	0.05	e0.00	e0.00
10	13	13	e16	e19	e18	14	1.2	1.0	1.0	0.03	e0.00	e0.00
11	13	13	e16	e18	e18	17	1.2	0.80	1.1	0.05	e0.00	e0.00
12	18	14	e16	e18	e18	18	1.2	0.65	1.1	e0.00	e0.00	e0.80
13	17	19	e16	e18	e17	19	1.2	0.65	0.77	e0.00	e0.00	e8.8
14	18	19	e17	e19	e19	19	1.2	0.98	0.55	e0.00	e0.00	2.0
15	18	19	e17	e19	e18	19	1.3	0.69	0.39	e0.00	e0.00	0.20
16	18	19	e15	e17	e20	20	1.3	1.2	0.36	e0.00	e0.00	0.15
17	17	19	e17	e17	e19	20	1.2	1.4	0.21	e0.00	e0.00	0.60
18	16	18	e17	e15	e21	21	1.2	1.5	0.14	e0.00	e0.00	0.92
19	16	18	e18	e16	e22	21	1.2	0.93	0.11	0.11	e0.00	1.4
20	15	16	e17	e17	e23	22	1.1	1.2	0.09	e0.00	e0.00	3.2
21	16	17	e17	e18	e23	23	1.1	0.92	0.27	e0.00	e0.00	3.1
22	16	20	e17	e18	e24	23	1.3	0.69	0.64	e0.00	e0.00	1.2
23	16	25	e17	e18	e25	22	1.2	0.80	0.15	e0.00	e0.00	0.64
24	16	21	e18	e17	e24	20	1.0	2.0	0.21	e0.00	e0.00	0.68
25	16	20	e18	e15	e23	18	1.3	2.0	0.96	e0.00	e0.00	0.86
26	17	19	e17	e15	e23	18	1.4	0.62	1.4	e0.00	e0.00	0.76
27	17	19	e19	e14	e25	13	1.3	0.52	1.6	e0.00	e0.00	0.78
28	16	19	e19	e16	e22	9.4	3.3	0.50	1.4	e0.00	e0.00	0.99
29	16	19	e20	e16	---	8.9	3.9	0.46	0.11	e0.00	e0.00	0.86
30	16	19	e20	e16	---	8.0	3.8	0.47	0.05	e0.00	e0.00	0.90
31	16	---	e21	e16	---	7.5	---	1.2	---	e0.00	e0.00	---
TOTAL	380.2	516	546	539	544	543.8	67.8	39.68	27.88	0.49	0.00	28.84
MEAN	12.26	17.20	17.61	17.39	19.43	17.54	2.260	1.280	0.929	0.016	0.000	0.961
MAX	18	25	21	20	25	23	7.0	3.9	4.5	0.11	0.00	8.8
MIN	2.1	13	15	14	15	7.5	1.0	0.46	0.05	0.00	0.00	0.00
AC-FT	754	1020	1080	1070	1080	1080	134	79	55	1.0	0.00	57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

	MEAN	28.94	30.44	25.22	24.25	29.37	25.62	12.74	229.9	271.3	43.85	10.68	13.32
MAX	114	113	90.3	77.2	87.3	58.7	37.5	527	1121	354	40.4	49.6	
(WY)	1998	1998	1998	1998	1998	1998	1998	2001	1995	1995	1993	1997	
MIN	9.03	11.8	13.1	12.0	15.2	12.2	2.26	1.28	0.93	0.016	0.000	0.96	
(WY)	2001	2000	1993	1996	1996	2001	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1992 - 2002

ANNUAL TOTAL	22797.01	3233.69	
ANNUAL MEAN	62.46	8.859	62.17
HIGHEST ANNUAL MEAN			148
LOWEST ANNUAL MEAN			8.86
HIGHEST DAILY MEAN	1030	May 25	3560
LOWEST DAILY MEAN	0.81	Jul 29	0.00
ANNUAL SEVEN-DAY MINIMUM	1.5	Jul 24	0.00
ANNUAL RUNOFF (AC-FT)	45220	6410	45040
10 PERCENT EXCEEDS	26	19	90
50 PERCENT EXCEEDS	15	3.8	17
90 PERCENT EXCEEDS	2.1	0.00	1.7

e Estimated

09271550 ASHLEY CREEK BELOW UNION CANAL DIVERSION NEAR JENSEN, UT--Continued

WATER-QUALITY RECORDS

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

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

Date	Time	SAMPLE TYPE	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	BARO- METRIC PRES- SURE (MM OF HG) (000025)	OXYGEN, DIS- SOLVED (MG/L) (000300)	OXYGEN, (PER- CENT SATUR- ATION) (000301)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (000400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (000095)	TEMPER- ATURE WATER (DEG C) (000010)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (700300)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (001145)
MAR 08...	1030	ENVIRONMENTAL	--	--	--	--	8.4	1820	.0	--	30
APR 24...	1635	ENVIRONMENTAL	1.4	--	--	--	8.7	2740	20.0	--	21
MAY 15...	1445	ENVIRONMENTAL	1.2	--	--	--	8.4	3110	24.0	--	11
23...	1125	ENVIRONMENTAL	1.1	642	9.9	116	7.9	2870	14.5	2620	7
23...	1130	REPLICATE	1.1	642	9.9	116	7.9	2870	14.5	2610	8
JUN 17...	1345	ENVIRONMENTAL	.43	--	--	--	7.4	3660	25.0	--	--
JUL 10...	1000	ENVIRONMENTAL	.05	645	4.8	67	7.3	4050	22.6	3860	4
10...	1005	REPLICATE	.05	645	4.8	67	7.3	4050	22.6	3850	5
(a)23...	1445	ENVIRONMENTAL	.0	--	--	--	8.5	4040	36.0	--	19
AUG (a)15...	1730	ENVIRONMENTAL	.0	633	14.4	212	8.2	4660	24.5	4450	8

(a) Collected from stagnant pool at the gage.

09276600 WEST FORK DUCHESNE RIVER ABOVE NORTH FORK, NEAR HANNA, UT

LOCATION.--Lat 40°27'42", long 110°50'10", in SE¹/₄SE¹/₄SW¹/₄ sec. 19, T. 1 N., R. 8 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 0.2 mi above confluence with North Fork of Duchesne River and 4.5 mi northwest of Hanna.

DRAINAGE AREA.--89.1 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,880 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. One small diversion for irrigation above station. Flow regulated by Vat diversion, 12 miles above the station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 624 ft³/s, May 28, 1999, gage height, 3.94 ft, maximum gage height, 4.06 ft, Jun 26, 1995; minimum daily discharge, 5.5 ft³/s, Aug 16, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 105 ft³/s, May 6, gage height, 2.67 ft; minimum daily discharge, 5.5 ft³/s, Aug 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	e23	e16	e9.2	e9.3	e10	e30	e36	e18	e20	e11	7.6
2	16	e22	e16	e9.4	e9.4	e11	e30	e46	e16	e20	e11	7.4
3	e16	e21	e16	e9.6	e9.7	e12	e30	e57	e15	e19	e11	7.5
4	e17	e20	e15	e9.8	e9.9	e12	e30	e68	e14	e19	e11	8.0
5	e17	e20	e15	e10	e10	e13	e31	e80	e13	e18	e11	7.9
6	e17	e20	e16	e10	e11	e13	e30	e92	e14	e18	e11	9.7
7	e17	e20	e17	e10	e12	e14	e31	e84	e16	e16	e12	15
8	e17	e20	e16	e11	e11	e14	e31	e74	e19	e15	e11	14
9	e16	e20	e16	e11	e10	e14	e31	e66	e21	e13	e9.9	12
10	e15	e20	e15	e11	e10	e14	e31	e60	e21	e12	e9.2	9.9
11	e16	e19	e15	e12	e11	e15	e32	e52	e20	e11	e8.3	10
12	e19	e19	e14	e12	e12	e15	e32	e60	e17	e11	e7.9	13
13	e19	e18	e13	e13	e11	e16	e33	e70	e16	e11	e7.0	13
14	e19	18	e13	e13	e10	e16	e34	e74	e15	e12	e6.4	10
15	e20	18	e12	e13	e10	e18	e33	e72	e15	e15	e6.0	9.2
16	e18	17	e11	e14	e9.8	e18	e33	e68	e18	e15	e5.5	9.4
17	e19	17	e10	e15	e9.6	e19	e32	e70	e19	e15	e6.0	11
18	e19	18	e9.7	e16	e9.5	e20	e32	e72	e23	e16	e6.5	11
19	e19	17	e9.5	e15	e9.6	e21	e31	e74	e25	e15	e7.0	11
20	e19	19	e9.3	e14	e9.8	e23	e31	e76	e25	e16	e8.0	10
21	e20	16	e9.1	e14	e10	e26	e30	e78	e24	e14	e9.0	9.2
22	e20	18	e8.8	e13	e11	e26	e30	e70	e23	e15	10	9.4
23	e21	17	e8.6	e13	e12	e25	e29	e50	e22	e13	9.1	9.3
24	e22	e17	e8.5	e12	e13	e25	e28	e35	e23	e15	8.6	9.2
25	e21	e17	e8.2	e11	e12	e25	e27	e20	e24	e15	8.4	9.2
26	e22	e17	e8.2	e11	e11	e26	e28	e18	24	e15	7.9	9.2
27	e22	e17	e8.4	e9.8	e10	e27	e27	e20	e24	e14	8.1	9.0
28	e22	e16	e8.4	e9.8	e9.7	e28	e26	e19	e22	e13	8.3	9.2
29	e22	e16	e8.6	e9.7	---	e28	e26	e21	e22	e13	8.5	9.9
30	e23	e16	e8.6	e9.5	---	e29	e26	e20	e21	e12	8.6	10
31	e24	---	e8.8	e9.3	---	e29	---	e19	---	e12	7.9	---
TOTAL	590	553	368.7	360.1	293.3	602	905	1721	589	458	271.1	300.2
MEAN	19.03	18.43	11.89	11.62	10.47	19.42	30.17	55.52	19.63	14.77	8.745	10.01
MAX	24	23	17	16	13	29	34	92	25	20	12	15
MIN	15	16	8.2	9.2	9.3	10	26	18	13	11	5.5	7.4
AC-FT	1170	1100	731	714	582	1190	1800	3410	1170	908	538	595

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

MEAN	19.00	17.84	15.38	14.37	13.79	17.89	29.10	78.99	89.92	36.34	23.10	19.75
MAX	29.0	26.1	22.9	20.4	20.7	23.3	41.3	160	254	90.6	42.4	35.8
(WY)	1998	1998	1998	2000	1999	1998	1997	1998	1995	1998	1997	1997
MIN	10.6	11.3	10.9	10.9	10.2	11.6	17.1	28.9	15.4	14.8	8.75	9.02
(WY)	1993	1990	1993	1993	2001	1992	1992	1994	1992	2002	2002	1992

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1990 - 2002

ANNUAL TOTAL	8302.2	7011.4	
ANNUAL MEAN	22.75	19.21	31.34
HIGHEST ANNUAL MEAN			62.3
LOWEST ANNUAL MEAN			16.7
HIGHEST DAILY MEAN	162	May 16	474
LOWEST DAILY MEAN	8.0	Feb 9	5.5
ANNUAL SEVEN-DAY MINIMUM	8.4	Dec 23	6.3
ANNUAL RUNOFF (AC-FT)	16470		22700
10 PERCENT EXCEEDS	42		49
50 PERCENT EXCEEDS	18		19
90 PERCENT EXCEEDS	10		11

e Estimated

LOCATION.--Lat 40°18'01", long 110°36'06", in SE¹/₄SW¹/₄SE¹/₄ sec. 18, T. 2 S., R. 6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank on upstream side of bridge on State Highway 35, 6 mi upstream from Rock Creek, and 7 mi southeast of Tabiona.

WATER-DISCHARGE RECORDS

REVISED RECORDS.--WDR UT-77-1: Drainage area.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several diversions above station for irrigation, including a transbasin diversion through Duchesne Tunnel 20 mi upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 7	1915	*278	*2.55				

Minimum discharge, 26 ft³/s, Aug 16.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	116	113	e87	e69	e80	91	54	67	46	36	40
2	65	105	114	e84	e69	e82	93	56	70	42	39	39
3	e62	106	107	e86	e71	e82	94	54	66	46	39	39
4	62	105	107	e87	e73	e80	95	55	58	45	37	40
5	e71	106	e107	e86	e74	78	95	60	53	46	37	40
6	65	106	e100	e85	e74	79	97	84	51	47	38	46
7	70	104	e92	e82	e72	81	97	96	55	50	42	78
8	72	107	e95	e81	e72	e81	96	91	60	46	39	79
9	75	108	e94	e78	e73	e81	94	85	64	42	39	68
10	77	109	e94	e75	e72	80	94	68	73	41	37	57
11	67	110	e90	e75	e71	79	97	60	75	40	35	59
12	72	108	e83	e75	e76	78	97	55	70	37	36	80
13	79	108	e79	e73	e78	77	98	60	63	33	34	90
14	79	107	e77	e71	e78	e77	99	98	55	39	33	74
15	83	106	e78	e67	e80	e76	106	112	54	45	31	67
16	84	104	e79	e66	e77	76	105	111	55	46	31	78
17	86	97	e83	e67	e80	75	97	97	52	50	32	115
18	83	101	e85	e70	e80	74	94	99	65	48	31	105
19	81	102	e87	e70	e83	86	88	114	77	47	32	82
20	80	100	e88	e73	83	86	83	127	79	53	36	70
21	84	105	e88	e74	81	88	85	138	76	49	42	60
22	86	107	e85	e75	79	91	80	119	74	47	45	64
23	88	102	e82	e73	80	93	73	101	74	41	41	63
24	90	100	e81	e71	79	91	71	86	66	48	38	56
25	98	106	e81	e72	e79	87	68	71	64	50	38	54
26	97	e106	e87	e73	e77	87	66	63	64	48	38	54
27	96	e104	e92	e74	e76	87	76	65	57	46	40	56
28	99	e105	e92	e69	e76	87	76	68	53	44	42	60
29	101	106	e91	e67	---	88	53	65	50	45	43	60
30	104	e107	e89	e64	---	91	48	63	48	40	43	69
31	123	---	e88	e67	---	91	---	69	---	39	41	---
TOTAL	2546	3163	2808	2317	2132	2569	2606	2544	1888	1386	1165	1942
MEAN	82.13	105.4	90.58	74.74	76.14	82.87	86.87	82.06	62.93	44.71	37.58	64.73
MAX	123	116	114	87	83	93	106	138	79	53	45	115
MIN	62	97	77	64	69	74	48	54	48	33	31	39
AC-FT	5050	6270	5570	4600	4230	5100	5170	5050	3740	2750	2310	3850

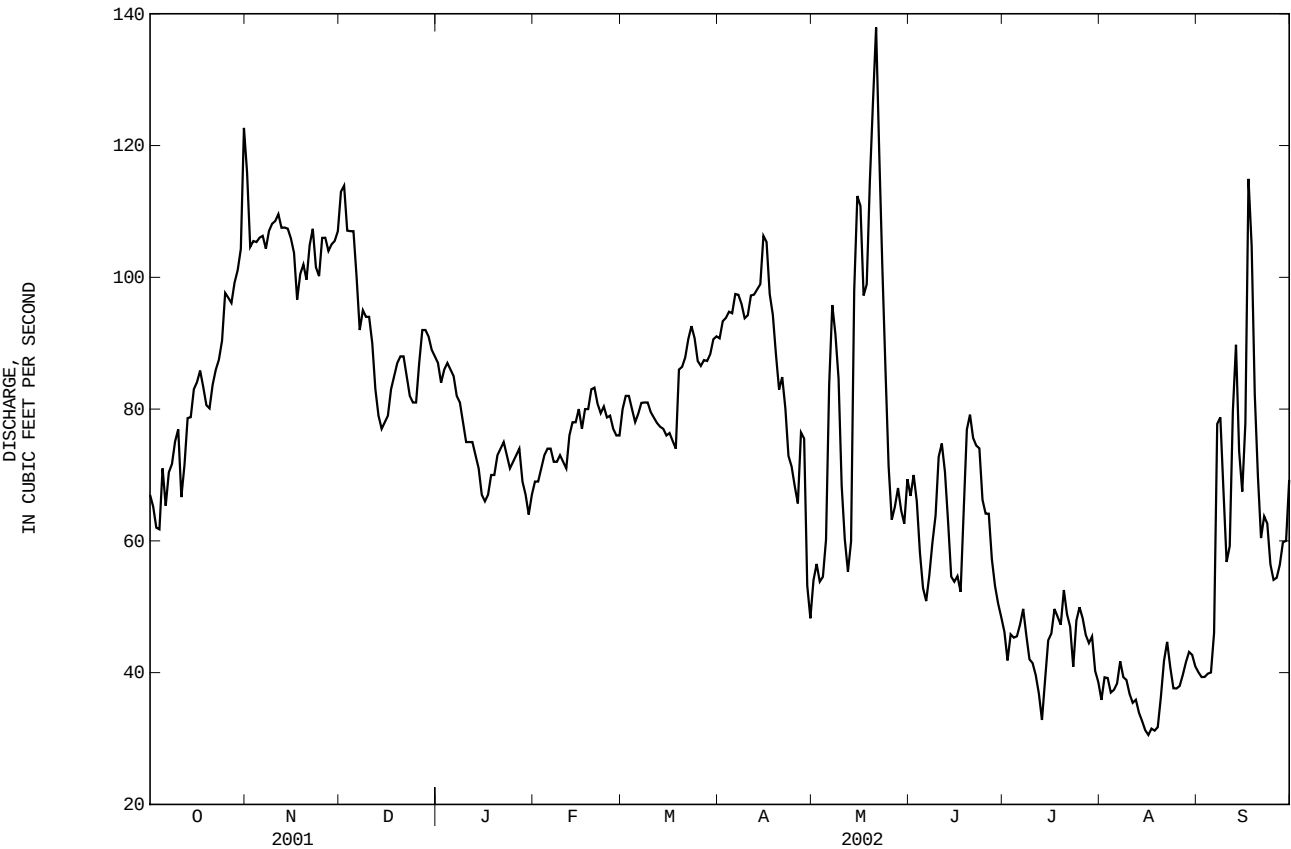
MEAN	115.8	118.7	106.6	94.94	92.12	98.88	151.5	475.7	610.7	196.9	106.1	105.5
MAX	230	180	151	147	124	153	348	1165	1657	690	216	233
(WY)	1983	1983	1984	1966	1986	1986	1943	1952	1921	1975	1983	1927
MIN	37.5	57.6	67.0	59.5	53.2	53.8	53.9	63.9	54.7	40.3	37.6	48.7
(WY)	1935	1935	1993	1935	1935	1935	1977	1992	1992	1994	2002	1934

GREEN RIVER BASIN

09277500 DUCHESNE RIVER NEAR TABIONA, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1919 - 2002	
ANNUAL TOTAL	38632		27066		189.6	
ANNUAL MEAN	105.8		74.15		354	
HIGHEST ANNUAL MEAN					68.9	
LOWEST ANNUAL MEAN					2490	
HIGHEST DAILY MEAN	608	May 17	138	May 21	21	Jun 13 1921
LOWEST DAILY MEAN	54	Sep 4	31	Aug 15	30	May 31 1992
ANNUAL SEVEN-DAY MINIMUM	57	Aug 29	32	Aug 13		
ANNUAL RUNOFF (AC-FT)	76630		53690		137300	
10 PERCENT EXCEEDS	151		105		385	
50 PERCENT EXCEEDS	89		76		109	
90 PERCENT EXCEEDS	66		41		73	

e Estimated



09277500 DUCHESNE RIVER NEAR TABIONA, UT--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--October 10, 2001 to September 30, 2002.

GAGE.--An 8.2-inch diameter, unheated, tipping bucket rain gage.

REMARKS.--Records good except for estimated snowfall-affected days, which are fair. Snowfall-affected data can result during the winter months when snow fills the rain gage bucket and then melts as temperatures rise. Snowfall-affected data is subject to appreciable errors.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 0.57 in, Sep 16, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 0.57 in, Sep 16.

PRECIPITATION, IN INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
2	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	---	0.00	e0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	---	0.00	e0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03	0.00
5	---	0.00	e0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.06
6	---	0.00	e0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
7	---	0.00	e0.05	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.02	0.18
8	---	0.01	e0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
9	---	0.00	---	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.09	e0.15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	e0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43
12	0.00	0.00	e0.10	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.38
13	0.00	0.00	e0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	e0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	e0.35	0.00	0.00	0.00	0.08	0.00	0.00	0.02	0.00	0.00
16	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.01
18	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.03
19	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.04	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.07	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.00
22	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.01	0.10	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.50	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.01	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.03
30	0.15	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.12
31	0.23	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	---	0.22	---	0.07	0.00	0.09	0.51	0.06	0.21	0.92	0.16	2.18

WTR YR 2002 TOTAL 5.90

e Estimated

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°29'36", long 110°34'39", in SE¹/₄NW¹/₄SW¹/₄ sec. 9, T. 1 N., R. 6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank at Lower Stillwater damsite "B", 0.1 mi upstream from Corral Creek, 6.8 mi downstream from South Fork, and 11.9 mi northwest of Mountain Home.

DRAINAGE AREA.--147 mi².

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area, WDR UT-95-1; 1994.

GAGE.--Water-stage recorder. Elevation of gage is 7,250 ft above NGVD of 1929, from river-profile map. Prior to April 12, 1939, nonrecording gage at site 300 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow partially regulated by Upper Stillwater Reservoir 8 mi upstream, beginning November 3, 1987. Total capacity, 32,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft³/s, Jun 18, 1971, gage height, 5.98 ft; maximum gage height, 6.26 ft, Jun 4, 1986, from floodmarks; minimum recorded, 7.0 ft³/s, Mar 13, 1940, Mar 20, 1942 (probably caused by ice jams above station).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 79 ft³/s, Jul 17, gage height, 2.15 ft; minimum discharge, 22 ft³/s, Mar 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	51	e39	e36	39	41	36	47	50	64	58	41
2	48	49	e39	e36	40	38	37	46	50	73	72	41
3	50	44	e40	e35	40	39	39	47	49	74	72	41
4	49	42	e41	e35	39	39	38	48	46	74	66	41
5	50	41	e41	e35	38	38	38	49	46	74	56	43
6	51	42	e40	e35	39	38	39	49	44	74	58	49
7	51	42	e39	e36	38	39	39	50	44	72	58	56
8	50	42	e38	e36	39	e39	38	49	43	70	56	52
9	53	41	e38	e35	38	e40	38	50	43	69	52	47
10	52	e41	e37	e35	37	40	38	51	43	68	52	43
11	50	e41	e37	e35	38	40	38	52	44	69	51	45
12	49	41	e36	e36	38	41	38	52	45	68	52	54
13	50	41	e36	e36	e38	40	38	52	44	68	52	50
14	49	40	e36	e35	e38	e38	38	52	47	69	e52	48
15	48	40	e35	e34	e37	e38	38	51	59	71	e53	45
16	48	40	e35	e33	e37	38	39	52	60	71	e54	46
17	48	40	e36	e32	e37	38	37	52	59	73	e53	55
18	48	41	e36	e33	e38	39	37	52	59	69	e54	57
19	48	39	e35	e33	e39	41	39	53	58	70	e55	50
20	48	39	e35	e34	39	38	39	54	57	69	e54	47
21	48	e39	e34	e34	e40	40	37	56	60	68	54	45
22	47	e40	e34	e35	40	41	37	50	60	67	51	45
23	49	e40	e33	e35	40	40	37	49	58	70	51	44
24	47	e39	e33	e36	41	39	43	46	56	72	51	44
25	48	e39	e33	e36	e42	37	45	44	54	66	51	44
26	48	e39	e34	e37	e42	37	46	44	54	60	48	44
27	48	e39	e34	e37	41	37	48	45	60	57	43	44
28	48	e39	e35	e37	e42	36	47	45	64	56	42	45
29	e48	e40	e35	e38	---	37	46	45	64	56	43	45
30	49	e40	e36	e38	---	37	46	46	63	55	41	45
31	58	---	e36	38	---	36	---	46	---	53	42	---
TOTAL	1527	1231	1126	1096	1094	1199	1193	1524	1583	2089	1647	1396
MEAN	49.26	41.03	36.32	35.35	39.07	38.68	39.77	49.16	52.77	67.39	53.13	46.53
MAX	58	51	41	38	42	41	48	56	64	74	72	57
MIN	47	39	33	32	37	36	36	44	43	53	41	41
AC-FT	3030	2440	2230	2170	2170	2380	2370	3020	3140	4140	3270	2770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

MEAN	57.07	53.83	50.86	47.99	47.39	50.19	49.98	116.9	234.8	185.1	90.40	76.02
MAX	133	135	137	123	111	116	111	431	743	599	241	253
(WY)	1998	1998	1998	1998	1998	1998	1999	1997	1999	1998	1999	1999
MIN	32.0	30.2	29.5	27.3	29.0	29.9	33.5	41.3	43.7	44.0	41.8	38.4
(WY)	1990	1990	1991	1991	1988	1988	1995	1992	1992	1991	1991	1993

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1988 - 2002

ANNUAL TOTAL	18489	16705	
ANNUAL MEAN	50.65	45.77	88.52
HIGHEST ANNUAL MEAN			212
LOWEST ANNUAL MEAN			40.1
HIGHEST DAILY MEAN	83	74	1310
LOWEST DAILY MEAN	33	32	22
ANNUAL SEVEN-DAY MINIMUM	34	33	26
ANNUAL RUNOFF (AC-FT)	36670	33130	64130
10 PERCENT EXCEEDS	65	59	158
50 PERCENT EXCEEDS	49	43	47
90 PERCENT EXCEEDS	39	36	33

e Estimated

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT

LOCATION.--Lat 40°16'14", long 110°26'31", in NE¹/₄NW¹/₄NW¹/₄ sec. 34, T. 2 S., R. 5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank at downstream edge of bridge on State Highway 35, 1.7 mi upstream from Knight diversion dam, 3.9 mi downstream from Rock Creek, and 7.7 mi north-northwest of Duchesne.

DRAINAGE AREA.--623 mi².

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

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,840 ft above NGVD of 1929, from topographic map. Prior to April 25, 1973, at site 150 ft upstream at different gage datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Several diversions above station for irrigation, including a transbasin diversion to the Great Basin through Duchesne Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,970 ft³/s, Jun 6, 1986, gage height, 7.52 ft, from flood-marks; minimum, 37 ft³/s, Jan 31, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0000	*210	*4.77				

Minimum discharge, 62 ft³/s, Aug 1, 19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	146	139	146	140	120	129	87	94	e78	66	72
2	92	137	152	141	138	115	131	91	100	e76	76	73
3	89	135	152	145	138	120	132	93	100	e89	82	74
4	88	134	148	147	145	126	133	93	93	e88	79	76
5	93	133	135	149	149	129	132	94	84	e90	78	78
6	93	134	153	147	146	125	135	108	79	e94	75	87
7	101	134	148	151	148	128	135	120	80	e100	77	112
8	103	135	132	149	141	121	133	120	88	e92	75	143
9	106	135	139	150	145	e125	133	117	90	e90	71	119
10	113	137	137	149	148	126	135	106	96	88	71	103
11	108	139	147	148	141	122	134	104	97	87	71	104
12	106	136	125	153	141	125	130	101	95	84	72	127
13	112	136	121	154	138	126	128	103	84	81	71	136
14	110	140	e110	e145	132	119	124	120	73	84	72	117
15	113	141	e110	e140	137	116	132	136	80	91	70	108
16	115	139	122	140	134	126	135	129	83	92	70	109
17	120	136	127	139	131	126	131	125	82	91	69	141
18	120	139	135	144	130	118	130	119	83	93	68	138
19	118	140	142	141	127	120	123	126	92	88	71	125
20	118	138	144	141	133	127	117	136	87	92	79	114
21	119	142	148	151	130	127	119	146	86	88	85	106
22	121	148	143	152	132	129	113	142	86	83	83	109
23	121	147	138	142	130	130	106	126	83	81	82	109
24	126	142	134	141	126	128	103	113	e82	e88	78	104
25	135	153	133	142	125	126	106	102	e79	e90	75	104
26	132	143	134	146	e120	125	103	91	e78	e88	74	104
27	131	144	150	146	e120	127	113	98	e79	e86	71	105
28	132	140	156	148	e120	126	119	100	e78	e84	74	108
29	132	148	152	e125	---	126	101	93	e78	e85	74	110
30	134	143	151	e120	---	126	91	88	e78	e80	77	119
31	153	---	146	134	---	127	---	91	---	e79	74	---
TOTAL	3547	4194	4303	4466	3785	3857	3686	3418	2567	2700	2310	3234
MEAN	114.4	139.8	138.8	144.1	135.2	124.4	122.9	110.3	85.57	87.10	74.52	107.8
MAX	153	153	156	154	149	130	135	146	100	100	85	143
MIN	88	133	110	120	120	115	91	87	73	76	66	72
AC-FT	7040	8320	8540	8860	7510	7650	7310	6780	5090	5360	4580	6410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2002, BY WATER YEAR (WY)

MEAN	193.4	192.5	167.8	157.9	152.2	163.4	207.6	604.0	1062	413.1	187.5	172.1
MAX	430	308	266	242	222	242	464	1525	2929	1447	443	381
(WY)	1983	1983	1998	1998	1998	1998	1985	1984	1986	1975	1983	1999
MIN	100	124	107	117	116	103	86.3	106	85.6	87.1	74.5	77.6
(WY)	1978	1978	1991	1978	1977	1977	1977	1990	2002	2002	2002	1992

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1971 - 2002

ANNUAL TOTAL	51136	42067	
ANNUAL MEAN	140.1	115.3	306.1
HIGHEST ANNUAL MEAN			580
LOWEST ANNUAL MEAN			115
HIGHEST DAILY MEAN	669	May 17	4700
LOWEST DAILY MEAN	58	Aug 29	54
ANNUAL SEVEN-DAY MINIMUM	73	Aug 26	60
ANNUAL RUNOFF (AC-FT)	101400	83440	221800
10 PERCENT EXCEEDS	184	146	577
50 PERCENT EXCEEDS	138	120	170
90 PERCENT EXCEEDS	86	78	108

e Estimated

09288000 CURRANT CREEK NEAR FRUITLAND, UT

LOCATION.--Lat 40°12'01", long 110°54'25", in NE¹/₄SE¹/₄SW¹/₄ sec. 21, T. 3 S., R. 9 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 30 ft downstream from Deep Creek, 150 ft upstream from bridge on U.S. Highway 40 and 3.5 mi southwest of Fruitland.

DRAINAGE AREA.--140 mi².

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Elevation of gage is 6,670 ft above NGVD of 1929, from topographic map. August 6, 1952 to November 8, 1966, water-stage recorder at site 150 ft downstream at datum 1.30 ft lower. See WSP 1733 for history of changes prior to August 6, 1952.

REMARKS.--Records good. Currant Creek feeder canal, constructed by the Bureau of Reclamation in 1936, diverts water from headwaters of Currant Creek to Strawberry Reservoir, from which it is diverted through Strawberry Tunnel to the Great Basin for irrigation in Strawberry Valley project. Beginning in 1962, Deep Creek was diverted intermittently into private fish ponds and entered Currant Creek 400 ft below gage. However, since approximately 1976 when the upstream pond washed out, Deep Creek has been entering Currant Creek 30 ft above gage. Flow partially regulated by Currant Creek Reservoir 15 miles upstream, beginning October 4, 1982. Total capacity, 15,670 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,260 ft³/s, May 4, 1952, gage height, 2.72 ft, site and datum then in use; maximum gage height, 5.92 ft, Jan 27, 1974, backwater from ice; minimum recorded, 3.6 ft³/s, Aug 9, 10, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 64 ft³/s, May 19, 20, 21, gage height, 1.78 ft; minimum discharge, 11 ft³/s, Mar 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	31	27	30	29	27	35	45	40	36	33	30
2	34	30	28	30	30	27	48	46	42	35	33	30
3	28	30	28	28	30	28	52	50	44	35	33	31
4	29	27	28	29	29	30	43	40	40	36	34	31
5	30	27	27	28	29	30	44	42	36	35	34	32
6	27	27	29	32	30	31	48	47	38	36	34	34
7	28	27	29	32	30	31	47	43	38	35	35	39
8	28	26	24	30	33	30	45	43	33	34	34	40
9	29	28	24	31	30	29	45	49	35	29	33	37
10	29	29	26	30	28	30	49	51	36	30	33	35
11	29	29	27	29	31	30	46	46	36	32	33	37
12	30	29	24	30	30	31	44	40	32	32	32	42
13	30	30	25	28	28	30	48	43	34	31	33	41
14	30	31	31	25	31	30	53	44	32	31	33	35
15	30	27	27	28	27	29	43	48	33	32	31	33
16	29	24	23	25	30	31	46	50	32	32	31	34
17	27	25	27	27	31	31	47	52	30	36	32	36
18	27	26	27	27	30	30	47	55	33	36	32	35
19	28	26	27	29	30	31	51	59	34	35	33	34
20	29	26	27	31	30	33	55	62	36	35	35	34
21	29	25	26	32	30	37	50	57	36	33	35	33
22	30	30	27	30	30	42	42	39	33	33	34	33
23	30	29	25	25	30	40	43	40	33	35	30	33
24	28	26	25	28	31	33	47	40	34	35	30	33
25	30	27	28	30	28	32	48	40	34	35	30	34
26	30	26	28	31	27	33	39	37	33	36	30	34
27	30	24	31	32	29	34	43	39	35	34	30	34
28	29	24	31	31	30	36	47	37	35	33	30	34
29	29	27	29	26	---	34	41	39	36	33	31	35
30	29	27	31	25	---	35	44	41	36	33	31	35
31	35	---	29	28	---	37	---	37	---	33	30	---
TOTAL	920	820	845	897	831	992	1380	1401	1059	1046	1002	1038
MEAN	29.68	27.33	27.26	28.94	29.68	32.00	46.00	45.19	35.30	33.74	32.32	34.60
MAX	40	31	31	32	33	42	55	62	44	36	35	42
MIN	27	24	23	25	27	27	35	37	30	29	30	30
AC-FT	1820	1630	1680	1780	1650	1970	2740	2780	2100	2070	1990	2060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2002, BY WATER YEAR (WY)

	34.26	33.80	31.98	32.14	33.12	37.21	50.13	61.75	62.05	41.82	38.39	38.32
MEAN												
MAX	53.3	52.3	53.1	49.9	48.1	60.7	84.3	117	216	84.9	69.5	64.0
(WY)	1999	1999	1999	1999	1999	1986	1986	1986	1998	1998	1998	1998
MIN	25.7	24.9	22.7	23.2	24.3	26.9	31.6	27.5	25.4	25.8	24.6	24.6
(WY)	1989	1991	1992	1992	1989	1992	1992	1992	1992	1992	1988	1988

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1986 - 2002
ANNUAL TOTAL	12854	12231	
ANNUAL MEAN	35.22	33.51	41.26
HIGHEST ANNUAL MEAN			74.6
LOWEST ANNUAL MEAN			26.1
HIGHEST DAILY MEAN	56	62	242
LOWEST DAILY MEAN	23	23	12
ANNUAL SEVEN-DAY MINIMUM	26	26	19
ANNUAL RUNOFF (AC-FT)	25500	24260	29890
10 PERCENT EXCEEDS	44	44	59
50 PERCENT EXCEEDS	35	32	36
90 PERCENT EXCEEDS	27	27	26

09288180 STRAWBERRY RIVER NEAR DUCHESNE, UT

LOCATION.--Lat 40°09'17", long 110°33'15", in SE¹/₄SW¹/₄SW¹/₄ sec. 3, T. 4 S., R. 6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 50 ft downstream from County Road bridge, 2,000 ft upstream from maximum high-water line of Starvation Reservoir, and 7.9 mi west of Duchesne.

DRAINAGE AREA.--917 mi² (includes approximately 170 mi² tributary to Strawberry Reservoir).

PERIOD OF RECORD.--May 1968 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,722 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Strawberry Reservoir since July 14, 1912. Capacity, 1,106,500 acre-ft since June 30, 1973; 283,000 acre-ft prior to June 30, 1973. New earthfilled dam located 7 mi below old dam was completed in September 1972, and storage began June 30, 1973. The elevation of the new reservoir reached the elevation of the old reservoir on March 15, 1985, and the old dam was breached on June 6, 1985.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,090 ft³/s, May 31, 1983, gage height, 8.29 ft; minimum recorded, 17 ft³/s, Jun 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 237 ft³/s, Sep 17, gage height, 5.56 ft; minimum daily discharge, 49 ft³/s, Jan 8-25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	81	92	e54	e52	e78	e86	75	77	66	64	71
2	77	76	93	e56	e52	e76	e86	75	81	65	68	71
3	66	76	99	e54	e54	e78	e88	75	84	67	69	75
4	65	76	107	e52	e54	e82	e88	76	84	70	72	75
5	65	76	98	e52	e54	e86	88	76	80	72	74	71
6	67	76	95	e50	e54	e90	89	75	79	69	71	75
7	68	76	94	e50	e54	e91	90	78	74	71	71	83
8	68	75	85	e49	e56	e86	89	78	72	71	67	98
9	71	75	81	e49	e56	e84	89	81	73	66	70	106
10	72	77	84	e49	e56	e86	90	83	75	61	71	86
11	71	79	87	e49	e56	e88	89	84	78	63	70	106
12	72	77	72	e49	e58	e90	89	82	75	64	67	127
13	71	76	e72	e49	e58	e86	85	80	73	64	65	126
14	71	76	e70	e49	e58	e84	83	79	72	60	70	107
15	70	75	e66	e49	e58	e82	84	83	72	63	72	103
16	71	75	e68	e49	e60	e82	86	82	71	67	75	105
17	73	75	e68	e49	e62	e82	85	78	71	83	76	139
18	73	75	e64	e49	e64	e82	86	80	68	81	72	110
19	73	74	e62	e49	e66	e82	86	76	65	77	71	113
20	73	73	e62	e49	e68	e82	86	76	68	77	79	106
21	74	74	e60	e49	e68	e82	87	77	70	74	87	106
22	75	77	e60	e49	e70	e84	85	79	69	71	82	95
23	74	83	e58	e49	e72	e86	82	81	69	71	83	97
24	75	77	e58	e49	e74	e84	75	82	68	70	81	105
25	75	79	e56	e49	e72	e84	77	79	67	67	76	103
26	75	87	e56	e50	e76	e82	77	76	68	70	75	101
27	75	75	e54	e52	e78	e82	79	77	68	71	77	103
28	76	84	e54	e54	e78	e84	81	76	69	66	70	102
29	75	89	e54	e54	---	e84	78	75	68	65	76	104
30	75	95	e54	e54	---	e86	76	74	67	67	76	112
31	85	---	e54	e52	---	e86	---	74	---	65	73	---
TOTAL	2258	2339	2237	1566	1738	2601	2539	2422	2175	2134	2270	2981
MEAN	72.84	77.97	72.16	50.52	62.07	83.90	84.63	78.13	72.50	68.84	73.23	99.37
MAX	87	95	107	56	78	91	90	84	84	83	87	139
MIN	65	73	54	49	52	76	75	74	65	60	64	71
AC-FT	4480	4640	4440	3110	3450	5160	5040	4800	4310	4230	4500	5910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

	MEAN	108.6	97.54	95.88	90.71	96.96	115.1	170.5	392.0	274.1	137.6	115.4	114.1
MAX	378	258	372	362	336	293	387	1031	1181	518	403	371	
(WY)	1984	1999	1984	1984	1984	1983	1983	1984	1983	1983	1983	1984	
MIN	37.1	57.0	47.9	40.8	48.5	59.6	57.5	44.2	32.9	36.9	29.9	33.8	
(WY)	1978	1978	1978	1978	1977	1977	1977	1977	1977	1977	1977	1977	

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1968 - 2002
ANNUAL TOTAL	41043	27260	
ANNUAL MEAN	112.4	74.68	150.3
HIGHEST ANNUAL MEAN			443
LOWEST ANNUAL MEAN			47.5
HIGHEST DAILY MEAN	519	May 4	2010
LOWEST DAILY MEAN	54	Dec 27	18
ANNUAL SEVEN-DAY MINIMUM	55	Dec 25	20
ANNUAL RUNOFF (AC-FT)	81410	54070	108900
10 PERCENT EXCEEDS	161	89	315
50 PERCENT EXCEEDS	89	75	94
90 PERCENT EXCEEDS	68	54	61

e Estimated

GREEN RIVER BASIN

09289500 LAKE FORK RIVER ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°36'24", long 110°31'35", in SW¹/₄SE¹/₄ sec. 35, T. 3 N., R. 6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft upstream from head of Moon Lake at maximum stage, 2 mi upstream from Brown Duck Creek, 16 mi northeast of Mountain Home.

DRAINAGE AREA.--77.9 mi².

PERIOD OF RECORD.--April 1933 to September 1934 (published as West Fork of Lake Fork above Moon Lake, near Mountain Home); July 1942 to September 1955; October 1963 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,180 ft above NGVD of 1929, from topographic map. April 1933 to September 1934, at site 2.5 mi upstream at different datum. July 13, 1942 to October 1, 1984, at datum 1.00 ft lower.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,740 ft³/s, Jun 27, 1995, gage height, 6.44 ft, minimum daily, 12 ft³/s, several days in 1993, 1996 and 1997.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 30		*728	*5.30				

Minimum daily discharge, 18 ft³/s, many days during winter months.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	e21	e20	e19	e18	e21	e29	39	395	52	e31	e28
2	35	e20	e20	e19	e18	e21	e29	37	305	51	e31	e28
3	35	e19	e20	e19	e18	e21	e29	38	249	52	e31	e28
4	34	e18	e19	e19	e18	e22	e30	37	195	52	e31	e29
5	e31	e22	e19	e19	e18	e22	e30	46	221	49	e32	e35
6	e30	e21	e20	e19	e18	e23	e31	52	257	49	e32	38
7	e30	e22	e21	e19	e18	e23	e31	71	251	50	e35	119
8	e27	e21	e21	e19	e18	e22	e32	71	233	45	e34	136
9	e24	e19	e20	e19	e18	e23	e32	65	195	41	e33	106
10	e21	e25	e20	e20	e18	e23	e33	60	150	40	e31	80
11	e23	e25	e20	e20	e19	e24	35	52	136	40	e29	75
12	e27	e26	e20	e20	e19	e24	35	47	134	37	e28	115
13	e27	e25	e20	e21	e19	e24	35	59	140	37	e27	102
14	e26	e23	e20	e20	e19	e23	35	90	136	37	e26	82
15	e26	e22	e21	e20	e19	e23	36	115	128	e34	e26	73
16	e27	e20	e20	e19	e19	e23	36	140	122	38	e26	70
17	e31	e20	e20	e19	e20	e23	36	144	115	e35	e27	96
18	e28	e21	e20	e18	e20	e24	35	210	109	e34	e28	109
19	e27	e20	e20	e18	e21	e24	35	273	106	e34	e29	106
20	e26	e23	e20	e18	e21	e25	35	358	99	43	e30	109
21	e26	e19	e19	e18	e21	e25	33	338	91	37	e31	98
22	e26	e21	e19	e18	e22	e25	33	190	105	e33	e31	86
23	e26	e20	e19	e18	e22	e26	34	158	90	e33	e30	79
24	e27	e20	e19	e18	e22	e26	35	142	79	37	e29	74
25	e31	e20	e19	e18	e21	e26	35	141	74	44	e29	70
26	e31	e20	e19	e18	e20	e27	36	156	69	39	e28	66
27	e31	e20	e19	e18	e21	e27	36	171	66	e36	e29	64
28	e28	e20	e19	e19	e22	e27	36	221	63	e34	e30	64
29	e26	e20	e19	e18	---	e27	35	284	60	e34	e30	66
30	e28	e20	e19	e18	---	e28	35	399	55	e32	e30	73
31	e23	---	e19	e18	---	e28	---	447	---	e32	e29	---
TOTAL	873	633	610	583	547	750	1007	4651	4428	1241	923	2304
MEAN	28.16	21.10	19.68	18.81	19.54	24.19	33.57	150.0	147.6	40.03	29.77	76.80
MAX	35	26	21	21	22	28	36	447	395	52	35	136
MIN	21	18	19	18	18	21	29	37	55	32	26	28
AC - FT	1730	1260	1210	1160	1080	1490	2000	9230	8780	2460	1830	4570

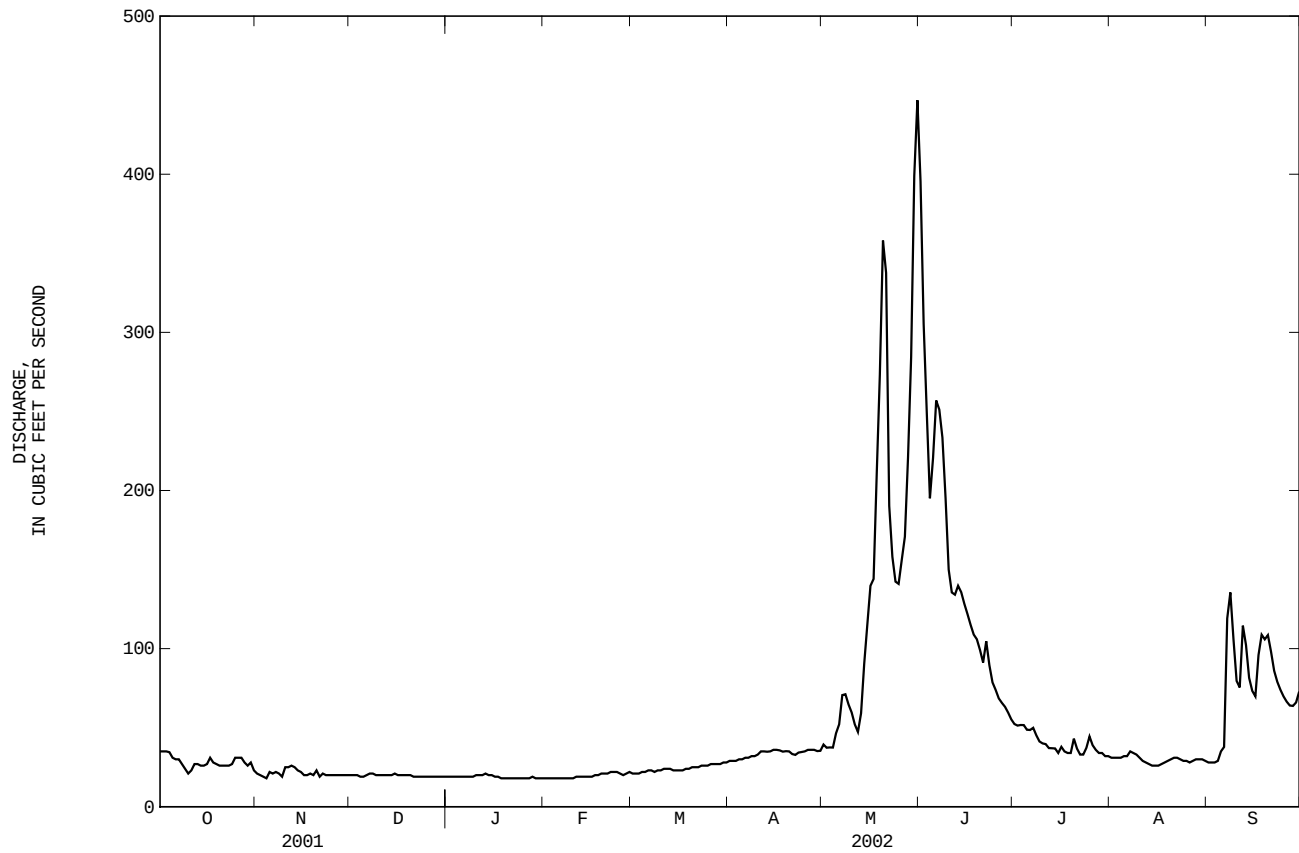
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	52.33	38.90	30.31	26.06	24.02	24.80	40.26	255.8	524.3	216.2	93.42	70.18
MAX	142	80.1	61.3	40.1	39.5	46.5	89.5	578	946	772	212	174
(WY)	1983	1983	1983	1983	1988	1988	1969	1969	1995	1995	1965	1997
MIN	26.3	21.1	15.0	14.8	13.6	15.0	18.6	65.9	148	40.0	29.8	32.1
(WY)	1989	2002	1993	1993	1997	1977	1993	1977	2002	2002	2002	1988

09289500 LAKE FORK RIVER ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1964 - 2002	
ANNUAL TOTAL	34222		18550		116.5	
ANNUAL MEAN	93.76		50.82		195	
HIGHEST ANNUAL MEAN					50.8	
LOWEST ANNUAL MEAN					2120	
HIGHEST DAILY MEAN	1040	May 17	447	May 31	2120	Jun 27 1995
LOWEST DAILY MEAN	18	Nov 4	18	Nov 4	12	Feb 6 1989
ANNUAL SEVEN-DAY MINIMUM	19	Dec 21	18	Jan 18	13	Apr 10 1993
ANNUAL RUNOFF (AC-FT)	67880		36790		84400	
10 PERCENT EXCEEDS	187		115		290	
50 PERCENT EXCEEDS	35		29		42	
90 PERCENT EXCEEDS	20		19		21	

e Estimated



09290500 MOON LAKE RESERVOIR NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°33'43", long 110°29'21", in NW¹/₄NE¹/₄NE¹/₄ sec. 19, T. 2 N., R. 5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, at dam on Lake Fork River, 1.4 mi downstream from Brown Duck Creek, 10.5 mi upstream from Yellowstone River, and 12.5 mi northwest of Mountain Home.

DRAINAGE AREA.--108 mi².

PERIOD OF RECORD.--December 1937 to current year.

REVISED RECORDS.--WDR UT-77-1: 1975.

GAGE.--Nonrecording gage read once daily on days shown. Datum of gage is 8064.16 ft above NGVD of 1929, (levels by Bureau of Reclamation).

REMARKS.--Reservoir formed by earthfill, rock-faced dam with concrete core. Storage began December 9, 1937. Capacity, 35,760 acre-ft between elevations 8,072.00 ft, crest of original outlet of lake, about 2,000 ft upstream from dam, and 8,137.00 ft, top of spillway gates. Elevation of spillway crest is 8,121.00 ft and elevation of sill of outlet works is 8,064.16 ft. Dead storage between sill of outlet and crest of original outlet of lake, 2,050 acre-ft. Total dead storage, 13,740 acre-ft. Figures given herein represent usable contents. Water is used for irrigation on lands under Moon Lake Water Users Association and Uintah Indian Irrigation projects.

COOPERATION.--Capacity table provided by Bureau of Reclamation. Gage heights furnished by Moon Lake Water Users Association.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 37,560 acre-ft, Jul 10-11, 1950; elevation, 8,139.30 ft; minimum observed, 226 acre-ft, Sep 30, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 18,100 acre-ft May 1, elevation, 8,111.6 ft; minimum contents observed, 3,927 acre-ft, Sep 1, elevation, 8,084 ft.

MONTH END ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Oct 31.....	--	8,090	+1,670
Nov 30.....	--	10,020	+1,930
Dec 31.....	--	11,840	+1,820
CAL YR 2001	--	--	-3,590
Jan 31.....	--	13,390	+1,550
Feb 28.....	--	14,680	+1,290
Mar 31.....	--	16,080	+1,400
Apr 30.....	--	18,030	+1,950
May 31.....	--	13,910	-4,120
Jun 30.....	--	8,812	-5,098
Jul 31.....	--	4,461	-4,351
Aug 31.....	--	3,940	-521
Sep 30.....	--	8,580	+4,640
WTR YR 2002	--	--	+2,160

Readings normally made on the first of each month.

09291000 LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°33'23", long 110°29'02", in SW¹/₄SW¹/₄NW¹/₄ sec. 20, T. 2 N., R. 5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft downstream from Moon Lake Dam, 2 mi downstream from Brown Duck Creek, and 12 mi northwest of Mountain Home.

DRAINAGE AREA.--112 mi².

PERIOD OF RECORD.--September 1921 to September 1934 (fragmentary), April 1942 to current year. Published as West Fork of Lake Fork near Mountain Home 1921-34, and as Lake Fork below Moon Lake, near Mountain Home 1942-65.

REVISED RECORDS.--WSP 1313: 1930 (M). WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,970 ft above NGVD of 1929 by barometer. Prior to April 1942, at damsite 2,000 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Moon Lake Reservoir (see station 09290500). No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,180 ft³/s, Jun 19, 1949, gage height, 4.83 ft, from rating curve extended above 860 ft³/s; maximum gage height, 5.46 ft, Jun 26, 1944; no flow at times when reservoir gates are closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 454 ft³/s, Jun 5, gage height, 2.64; no flow on many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	e0.0	e0.0	0.00	0.00	0.00	0.00	0.00	87	231	138	12
2	1.5	e0.0	e0.0	0.00	0.00	0.00	0.00	0.00	149	239	146	12
3	0.00	e0.0	e0.0	0.00	0.00	0.00	0.00	0.00	358	247	145	12
4	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	17	376	246	110	12
5	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	86	387	255	22	12
6	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	286	402	253	22	12
7	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	322	369	243	29	6.5
8	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	320	360	106	33	0.00
9	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	318	371	72	32	0.00
10	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	320	388	72	32	0.00
11	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	317	387	72	32	0.00
12	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	315	383	72	32	0.00
13	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	315	383	72	32	0.00
14	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	317	360	72	32	0.00
15	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	315	346	166	32	0.00
16	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	314	291	179	32	0.00
17	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	312	224	147	32	0.00
18	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	310	215	148	32	0.00
19	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	271	215	147	32	0.00
20	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	232	213	146	32	0.00
21	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	226	213	146	32	0.00
22	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	315	211	88	31	0.00
23	e0.0	e0.0	e0.0	0.00	0.00	0.00	0.00	358	210	32	28	0.00
24	e0.0	e0.0	0.00	0.00	0.00	0.00	0.00	357	127	32	28	0.00
25	e0.0	e0.0	0.00	0.00	0.00	0.00	0.00	357	97	32	23	0.00
26	e0.0	e0.0	0.00	0.00	0.00	0.00	0.00	346	92	28	13	0.00
27	e0.0	e0.0	0.00	0.00	0.00	0.00	0.00	276	104	17	13	0.00
28	e0.0	e0.0	0.00	0.00	0.00	0.00	0.00	221	92	42	13	0.00
29	e0.0	e0.0	0.00	0.00	---	0.00	0.00	196	109	106	13	0.00
30	e0.0	e0.0	0.00	0.00	---	0.00	0.00	163	152	106	13	0.00
31	e0.0	---	0.00	0.00	---	0.00	---	130	---	119	13	---
TOTAL	15.50	0.0	0.00	0.00	0.00	0.00	0.00	7632.00	7671	3933	1249	78.50
MEAN	0.500	0.000	0.000	0.000	0.000	0.000	0.000	246.2	255.7	126.9	40.29	2.617
MAX	14	0.00	0.00	0.00	0.00	0.00	0.00	358	402	255	146	12
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87	17	13	0.00
AC-FT	31	0.00	0.00	0.00	0.00	0.00	0.00	15140	15220	7800	2480	156

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2002, BY WATER YEAR (WY)

	MEAN	49.07	7.338	0.968	1.484	2.308	3.468	47.21	300.1	370.9	352.2	245.2	137.6
MAX	202	120	17.3	28.2	44.4	72.3	202	555	920	717	410	326	
(WY)	1983	1966	1984	1984	1966	1966	1943	1969	1983	1995	1944	1984	
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	130	144	124	35.6	0.000
(WY)	1991	1948	1943	1943	1943	1943	1943	1944	1977	1945	2002	1989	1992

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1943 - 2002

ANNUAL TOTAL	43737.50	20579.00	
ANNUAL MEAN	119.8	56.38	127.3
HIGHEST ANNUAL MEAN			211
LOWEST ANNUAL MEAN			54.8
HIGHEST DAILY MEAN	921	402	2000
LOWEST DAILY MEAN	0.00	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00	0.00
ANNUAL RUNOFF (AC-FT)	86750	40820	92200
10 PERCENT EXCEEDS	362	249	363
50 PERCENT EXCEEDS	0.00	0.00	12
90 PERCENT EXCEEDS	0.00	0.00	0.00

e Estimated

09292000 YELLOWSTONE RIVER AT BRIDGE CAMPGROUND NEAR ALTONAH, UT

LOCATION.--Lat 40°32'47", long 110°19'59", in SW¹/₄NW¹/₄NW¹/₄ sec. 27, T. 2 N., R. 4 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on right bank 0.5 mi upstream from powerplant of Moon Lake Electric Association, Inc., 1.5 mi downstream from Yellowstone Ranch, and 10.6 mi northwest of Altonah.

DRAINAGE AREA.--114 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 7,650 ft above NGVD of 1929, from USGS topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,260 ft³/s, Jun 4, 1997, gage height, 6.38 ft; minimum daily discharge, 15 ft³/s, Aug 10, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 253 ft³/s, Sep 8, gage height, 4.74 ft; minimum recorded daily discharge, 15 ft³/s, Aug 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e39	26	e21	e35	e26	e22	e24	e35	e135	e38	e22	25
2	e38	24	e22	e34	e27	e19	e23	e34	e121	e37	e22	24
3	e38	23	e22	e32	e26	e20	e22	e35	e109	e37	e23	23
4	e34	22	e22	e30	e27	e22	e23	e36	e97	e36	e22	24
5	e31	23	e21	e28	e28	e24	e23	e41	e98	e34	e21	29
6	e30	23	e22	e26	e28	e22	e22	e47	e104	e32	e20	39
7	e29	23	e26	e25	e27	e19	e22	e47	e109	e28	e19	111
8	e36	21	e30	e25	e27	e17	e22	e52	e100	e22	e18	173
9	e43	18	e29	e24	e28	e18	e23	e58	e92	e22	e17	135
10	e40	21	e29	e24	e28	e18	e23	e58	e80	e21	15	105
11	e38	21	e30	e24	e28	e20	e23	e56	e70	e21	18	97
12	e38	21	e31	e23	e28	e21	e24	e54	e65	e20	20	137
13	38	20	e34	e22	e26	e19	e25	e58	e60	e21	21	112
14	37	17	e33	e21	e24	e17	e26	e74	e55	e22	23	94
15	36	e19	e35	e21	e23	e17	e28	e84	e50	e21	25	85
16	37	e19	e35	e21	e23	e17	e27	e96	e46	e21	26	81
17	43	e19	e36	e22	e24	e18	e26	e96	e41	e22	28	99
18	41	e19	e38	e23	e25	e19	e26	e110	e37	e23	30	109
19	40	e18	e39	e24	e26	e19	e26	e124	e34	e25	31	103
20	39	e19	e40	e25	e24	e20	e25	e140	e32	e26	32	99
21	38	e20	e41	e22	e22	e21	e24	e110	e30	e26	32	88
22	38	e20	e40	e23	e21	e23	e25	e56	e38	e25	32	79
23	38	e19	e39	e23	e21	e22	e26	e54	e46	e27	29	75
24	40	e20	e38	e22	e22	e21	e28	e70	e58	e29	27	72
25	43	e21	e36	e23	e23	e21	e30	e73	e54	e30	26	71
26	46	e20	e35	e24	e21	e24	e31	e83	e50	e30	25	69
27	46	e20	e35	e24	e21	e23	e33	e91	e48	e29	25	67
28	47	e20	e35	e25	e23	e24	e32	e100	e46	e28	26	66
29	36	e21	e35	e26	---	e24	e32	e115	e42	e27	26	70
30	37	e21	e36	e26	---	e23	e33	e132	e39	e25	27	76
31	34	---	e36	e26	---	e23	---	e145	---	e23	26	---
TOTAL	1188	618	1001	773	697	637	777	2364	1986	828	754	2437
MEAN	38.32	20.60	32.29	24.94	24.89	20.55	25.90	76.26	66.20	26.71	24.32	81.23
MAX	47	26	41	35	28	24	33	145	135	38	32	173
MIN	29	17	21	21	21	17	22	34	30	20	15	23
AC-FT	2360	1230	1990	1530	1380	1260	1540	4690	3940	1640	1500	4830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

	MEAN	60.19	39.32	38.00	35.31	29.72	29.59	42.01	219.2	359.6	155.2	93.45	113.6
MAX	112	61.1	54.4	50.0	32.7	32.4	56.4	414	635	388	150	182	
(WY)	1998	1998	1998	1998	2000	1997	2000	2001	1999	1998	1999	1997	
MIN	38.3	20.6	21.7	24.9	24.1	20.5	25.9	76.3	66.2	26.7	24.3	68.9	
(WY)	2002	2002	1999	2002	1997	2002	2002	2002	2002	2002	2002	2000	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1997 - 2002

ANNUAL TOTAL	35155	14060		
ANNUAL MEAN	96.32	38.52		
HIGHEST ANNUAL MEAN			101.4	
LOWEST ANNUAL MEAN			141	1998
HIGHEST DAILY MEAN	715	May 16	38.5	2002
LOWEST DAILY MEAN	17	Nov 14	1200	Jun 20 1999
ANNUAL SEVEN-DAY MINIMUM	19	Nov 14	15	Aug 10 2002
ANNUAL RUNOFF (AC-FT)	69730		18	Mar 13 2002
10 PERCENT EXCEEDS	183		228	
50 PERCENT EXCEEDS	43		46	
90 PERCENT EXCEEDS	26		25	

e Estimated

09292500 YELLOWSTONE RIVER NEAR ALTONAH, UT

LOCATION.--Lat 40°30'43", long 110°20'27", in SW¹/₄SW¹/₄NE¹/₄ sec. 4, T. 1 N., R. 4 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 1.5 mi downstream from powerplant of Moon Lake Electric Association, Inc., 2 mi downstream from Hell Canyon, 8.2 mi northwest of Altonah.

DRAINAGE AREA.--132 mi².

PERIOD OF RECORD.--October 1944 to current year. Prior to October 1965, published as Yellowstone Creek near Altonah.

REVISED RECORDS.--WDR UT-77-1: Drainage area, WDR UT-95-1: 1994.

GAGE.--Water-stage recorder. Elevation of gage is 7,430 ft above NGVD of 1929, from river-profile map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,670 ft³/s, Jun 20, 1999, gage height, 4.50 ft; maximum gage height, 4.93 ft, Jun 11, 1990; minimum daily, 25 ft³/s, Nov 28, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 0F ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 20	2330	*306	*2.22				

Minimum daily discharge 33 ft³/s, Mar 21, 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	62	e54	e52	e43	e40	40	58	196	83	55	39
2	75	59	e52	e47	e44	e35	40	56	177	81	55	40
3	74	58	e52	e47	e44	e35	40	58	166	81	57	39
4	74	58	e52	e44	e43	e36	40	58	146	81	55	40
5	e73	57	e50	e46	e43	e37	42	63	140	80	58	40
6	e68	56	e52	e46	e42	e37	41	74	152	78	54	48
7	e63	57	e50	e46	e43	e40	40	74	155	78	54	121
8	e71	54	e50	e47	e43	e39	41	78	150	72	53	177
9	e68	53	e50	e46	e46	e35	45	77	144	68	49	151
10	e64	56	e52	e45	e41	e38	45	75	123	58	46	128
11	e62	54	e50	e47	e42	e41	45	71	115	61	46	124
12	e62	54	e50	e49	e42	e39	46	68	112	59	44	150
13	e62	54	e47	e46	e43	e40	46	70	110	57	44	134
14	e64	51	e50	e46	e47	e42	48	83	108	57	45	118
15	e68	51	e44	e46	e38	e38	50	91	105	56	44	113
16	e69	52	e45	e45	e41	e38	49	106	103	58	44	110
17	e66	51	e46	e44	e42	e41	50	104	99	59	42	124
18	e64	52	e46	e46	e41	e36	47	129	96	58	44	129
19	e64	49	e45	e44	e43	e36	50	169	94	56	45	123
20	e64	50	e46	e50	e41	e35	48	202	92	64	49	124
21	e62	51	e45	e47	e46	33	45	204	90	64	e49	113
22	e62	53	e47	e47	e42	35	47	139	102	59	e47	107
23	e66	51	e44	e47	e40	34	48	121	128	64	e45	102
24	e63	50	e44	e44	e40	34	49	107	121	73	46	97
25	e60	52	e43	e44	e39	33	51	106	116	76	44	95
26	62	e47	e44	e44	e38	37	52	120	104	75	44	92
27	61	e50	e45	e47	e38	34	55	133	97	67	44	91
28	60	e49	e47	e46	e40	36	52	141	93	64	43	91
29	60	e50	e49	e45	---	36	52	161	89	60	41	95
30	61	e50	e49	e44	---	37	54	178	85	57	41	101
31	68	---	e52	e43	---	38	---	209	---	56	40	---
TOTAL	2036	1591	1492	1427	1175	1145	1398	3383	3608	2060	1467	3056
MEAN	65.68	53.03	48.13	46.03	41.96	36.94	46.60	109.1	120.3	66.45	47.32	101.9
MAX	76	62	54	52	47	42	55	209	196	83	58	177
MIN	60	47	43	43	38	33	40	56	85	56	40	39
AC-FT	4040	3160	2960	2830	2330	2270	2770	6710	7160	4090	2910	6060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2002, BY WATER YEAR (WY)

MEAN	90.27	70.40	58.61	50.57	47.96	48.15	63.05	245.5	483.4	234.5	147.6	118.5
MAX	213	122	95.6	72.0	62.5	78.8	128	599	1011	744	366	236
(WY)	1983	1983	1983	1984	1983	1986	1969	1969	1983	1965	1965	1997
MIN	53.0	43.8	36.0	26.5	29.9	31.0	41.1	72.0	120	66.5	47.3	60.5
(WY)	1993	1990	1993	1979	1977	1977	1970	1977	2002	2002	2002	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1945 - 2002
ANNUAL TOTAL	50786	23838	
ANNUAL MEAN	139.1	65.31	138.4
HIGHEST ANNUAL MEAN			235
LOWEST ANNUAL MEAN			65.3
HIGHEST DAILY MEAN	965	209	1810
LOWEST DAILY MEAN	43	33	22
ANNUAL SEVEN-DAY MINIMUM	45	34	26
ANNUAL RUNOFF (AC-FT)	100700	47280	100300
10 PERCENT EXCEEDS	274	117	304
50 PERCENT EXCEEDS	68	52	74
90 PERCENT EXCEEDS	51	40	45

e Estimated

09295000 DUCHESNE RIVER AT MYTON, UT

LOCATION.--Lat 40°12'01", long 110°03'47", in NE¹/₄NW¹/₄NW¹/₄ sec. 25, T. 3 S., R. 2 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank at Myton, 3 mi downstream from Lake Fork.

DRAINAGE AREA.--2,643 mi².

PERIOD OF RECORD.--October 1899 to December 1902, April to December 1903, March to December 1904, March to July and September to November 1905, April to July 1906, April to December 1907, March to December 1908, April to December 1909, March to November 1910, July 1911 to current year. Published as "at Price road bridge" 1899-1902.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,061.40 ft above NGVD of 1929. Prior to October 14, 1933, nonrecording gages at several sites within 0.5 mi of present site at various datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to the Great Basin through Duchesne and Strawberry Tunnels, Hobbie Creek Ditch, Strawberry River, and Willow Creek Ditch.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 12,800 ft³/s, Jun 10, 1922, gage height, 7.94 ft, site and datum then in use, from rating curve extended above 8,000 ft³/s; minimum discharge, less than 1 ft³/s, Jul 16, 1931, and for several days in Aug and Sep 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 213 ft³/s, Mar 10, gage height, 2.77 ft; minimum daily discharge, 4.0 ft³/s, Apr 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	40	e54	e74	e86	e120	111	14	39	e20	e17	23
2	6.9	48	e54	e74	e86	e118	97	14	69	e40	e18	21
3	7.0	48	e54	e74	e86	e116	100	17	57	e90	e19	23
4	5.6	50	e56	e74	e87	e120	48	17	28	e50	e17	27
5	6.4	51	e56	e74	e88	e125	18	19	19	e20	e17	28
6	7.0	49	e64	e76	e88	e130	18	18	13	e23	e18	28
7	8.5	46	e66	e77	e90	e135	26	16	11	e20	e18	33
8	10	53	e62	e78	e92	e140	13	21	15	e21	e15	59
9	12	52	e66	e77	e92	144	4.3	20	14	e18	22	e131
10	9.2	53	e66	e77	e94	154	4.0	29	18	e20	18	e124
11	5.3	53	e68	e77	e94	126	5.4	39	17	e20	24	e121
12	5.4	51	e70	e77	e96	125	4.6	36	15	e22	23	e103
13	30	46	e70	e77	e96	126	4.7	20	17	e24	20	55
14	35	41	e72	e77	e98	106	5.7	23	19	e22	27	35
15	51	42	e72	e77	e98	102	21	23	27	e17	21	27
16	58	42	e70	e77	e98	110	18	23	35	e18	26	20
17	65	44	e70	e77	e100	108	11	24	48	e100	24	19
18	54	42	e70	e76	e100	92	15	33	42	e19	19	24
19	51	41	e70	e76	e100	103	15	28	39	e22	24	23
20	29	43	e70	e76	e105	116	13	25	39	e22	21	19
21	13	47	e68	e76	e104	117	22	24	e24	e22	11	18
22	14	46	e68	e76	e105	118	14	59	e27	e22	17	18
23	20	44	e68	e76	e108	135	9.8	39	e28	e35	19	17
24	30	42	e68	e76	e110	127	9.2	35	e23	e60	15	17
25	29	47	e68	e76	e115	151	11	28	e18	e30	14	18
26	30	e50	e68	e76	e110	169	13	20	e18	e22	17	18
27	33	e50	e68	e77	e115	161	14	26	e19	e19	19	18
28	35	e50	e70	e78	e120	182	20	28	e18	e21	22	13
29	36	e52	e72	e80	---	191	20	26	e18	e25	25	13
30	34	e52	e72	e82	---	131	13	22	e18	e21	18	17
31	35	---	e72	e84	---	128	---	29	---	e19	18	---
TOTAL	773.6	1415	2062	2379	2761	4026	698.7	795	792	822	603	1110
MEAN	24.95	47.17	66.52	76.74	98.61	129.9	23.29	25.65	26.40	26.52	19.45	37.00
MAX	65	53	72	84	120	191	111	59	69	90	27	131
MIN	5.3	40	54	74	86	92	4.0	14	11	17	11	13
AC-FT	1530	2810	4090	4720	5480	7990	1390	1580	1570	1630	1200	2200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2002, BY WATER YEAR (WY)

	235.3	285.2	304.5	292.8	313.8	357.3	367.1	1041	1631	418.3	169.0	187.4
MEAN	235.3	285.2	304.5	292.8	313.8	357.3	367.1	1041	1631	418.3	169.0	187.4
MAX	1031	1055	1037	982	715	880	1293	4185	6356	2372	695	1597
(WY)	1984	1984	1984	1984	1984	1916	1952	1952	1922	1917	1921	1927
MIN	4.81	32.6	34.3	62.3	79.3	56.0	9.43	25.6	17.8	5.01	5.13	1.37
(WY)	1935	1991	1971	1991	1990	1990	1961	2002	1934	1961	1940	1934

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1912 - 2002

ANNUAL TOTAL	37407.0	18237.3	
ANNUAL MEAN	102.5	49.97	466.4
HIGHEST ANNUAL MEAN			1318
LOWEST ANNUAL MEAN			50.0
HIGHEST DAILY MEAN	977	May 25	9690
LOWEST DAILY MEAN	5.3	Oct 11	1.0
ANNUAL SEVEN-DAY MINIMUM	7.1	Sep 30	1.0
ANNUAL RUNOFF (AC-FT)	74200	36170	337900
10 PERCENT EXCEEDS	180	108	979
50 PERCENT EXCEEDS	56	35	280
90 PERCENT EXCEEDS	20	14	32

e Estimated

09295100 DUCHESNE RIVER ABOVE UINTA RIVER, NEAR RANDLETT, UT

LOCATION.--Lat 40°12'24", long 109°51'33", in NW¹/₄NW¹/₄SW¹/₄ sec. 23, T. 3 S., R. 1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank beside county road bridge.

DRAINAGE AREA.-- 4,235 mi².

PERIOD OF RECORD.--April 1997 to February 1998 miscellaneous measurements, March 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,830 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,600 ft³/s, Jun 21, 1999, gage height 8.64 ft; minimum discharge, 2.5 ft³/s, Apr 10, 11, 12, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 160 ft³/s, Mar 29, 30, gage height, 3.61 ft; minimum discharge, 2.5 ft³/s, Apr 10, 11, 12.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	49	63	e85	e95	e120	96	7.5	20	9.3	9.4	8.2
2	9.6	51	73	e83	e96	e130	72	7.4	27	8.5	8.9	5.7
3	4.0	55	71	e80	e97	e140	70	6.8	57	8.4	11	5.9
4	3.2	56	74	e80	e98	e145	63	7.1	37	16	11	4.1
5	3.5	57	61	e80	e99	e150	e30	6.7	26	10	8.8	4.3
6	3.8	56	76	e80	e100	e145	e4.0	8.0	14	9.7	12	7.7
7	4.7	54	90	e80	e102	e145	e4.0	7.9	11	9.7	13	15
8	5.3	53	73	e80	e105	e140	e4.0	6.8	8.5	9.3	9.6	35
9	6.1	56	61	e80	e105	e130	e4.0	11	7.2	8.0	4.2	52
10	6.7	55	71	e85	e102	e130	2.9	12	8.4	7.6	4.0	45
11	6.4	59	77	e83	e103	e120	2.6	24	9.9	6.4	3.6	38
12	4.8	56	79	e80	e104	e120	2.8	30	10	7.5	3.0	61
13	4.4	56	74	e79	e105	e111	2.9	18	8.9	8.4	2.6	77
14	28	52	73	e78	e104	96	3.2	11	8.1	8.8	2.4	50
15	35	53	78	e78	e102	90	3.1	9.9	7.9	7.4	2.8	39
16	44	53	e80	e77	e105	92	17	5.8	7.5	6.4	5.1	31
17	45	54	e80	e77	e105	92	14	5.9	8.4	6.4	5.4	26
18	51	56	e80	e77	e110	84	11	9.0	15	7.2	6.1	25
19	54	53	e80	e77	e110	84	19	12	14	11	5.1	28
20	51	54	e80	e77	e110	90	19	8.2	11	8.8	5.1	e35
21	31	52	e80	e77	e115	97	18	9.0	12	10	5.6	e30
22	25	58	e83	e77	e115	93	23	13	11	8.8	5.4	18
23	24	59	e80	e80	e115	102	9.0	31	17	7.3	4.5	18
24	31	56	e80	e85	e110	100	5.2	22	16	7.3	4.8	8.6
25	38	58	e80	e91	e105	114	4.6	23	9.0	8.6	6.0	7.1
26	40	60	e80	e91	e106	132	5.1	17	7.5	14	5.8	5.5
27	43	57	e80	e91	e100	129	8.0	9.2	6.9	11	5.3	5.5
28	45	51	e80	e91	e110	137	12	15	8.3	9.5	5.0	6.6
29	46	60	e80	e89	---	152	18	14	9.0	13	13	9.0
30	47	68	e80	e93	---	121	15	16	9.5	12	12	11
31	47	---	e83	e94	---	98	---	12	---	12	9.0	---
TOTAL	797.2	1667	2380	2555	2933	3629	562.4	396.2	423.0	288.3	209.5	712.2
MEAN	25.72	55.57	76.77	82.42	104.8	117.1	18.75	12.78	14.10	9.300	6.758	23.74
MAX	54	68	90	94	115	152	96	31	57	16	13	77
MIN	3.2	49	61	77	95	84	2.6	5.8	6.9	6.4	2.4	4.1
AC-FT	1580	3310	4720	5070	5820	7200	1120	786	839	572	416	1410

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

	1998	1999	2000	2001	2002
MEAN	238.7	277.9	288.7	242.9	262.1
MAX	575	711	587	484	623
(WY)	1999	1999	1999	1999	1999
MIN	25.7	55.6	76.8	82.4	105
(WY)	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1998 - 2002

ANNUAL TOTAL	36988.0	16552.8	
ANNUAL MEAN	101.3	45.35	
HIGHEST ANNUAL MEAN			237.1
LOWEST ANNUAL MEAN			632
HIGHEST DAILY MEAN	1110	May 25	4410
LOWEST DAILY MEAN	3.2	Oct 4	2.4
ANNUAL SEVEN-DAY MINIMUM	4.4	Oct 3	3.1
ANNUAL RUNOFF (AC-FT)	73370		171800
10 PERCENT EXCEEDS	185		601
50 PERCENT EXCEEDS	59		105
90 PERCENT EXCEEDS	9.3		9.7

e Estimated

09296800 UINTA RIVER BELOW POWERPLANT DIVERSION, NEAR NEOLA, UT

LOCATION.--Lat 40°35'29", long 110°06'49", in NW¹/₄NW¹/₄NE¹/₄ sec. 9, T. 2 N., R. 2 W., Uintah Meridian, Duchesne County.
Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 100 ft downstream from National Forest boundary, 4.7 mi upstream of Moon Lake Electric Association Inc. hydroelectric powerplant, and 11.5 mi northwest of Neola.

DRAINAGE AREA.--157 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 7,330 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Moon Lake Electric powerplant canal diversion about 0.75 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,610 ft³/s, Jun 21, 1999, gage height, 7.07; minimum daily discharge, 11 ft³/s, Jan 8, 19, 20, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 257 ft³/s, May 21, gage height, 6.24 ft; minimum daily discharge, 18 ft³/s, several days in Feb and Mar.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	34	e26	e23	e19	e20	33	48	181	61	40	28
2	80	31	e28	e23	e19	e18	31	42	162	60	40	25
3	79	31	e28	e22	e20	e18	26	46	176	60	42	20
4	76	30	e25	e22	e20	e18	23	48	158	59	38	21
5	75	33	e24	e23	e20	e18	24	58	144	58	39	21
6	75	35	e27	e22	e20	e19	24	71	157	58	36	34
7	74	35	e29	e22	e21	e19	22	96	162	64	37	131
8	74	30	e28	e22	e21	e20	43	94	156	56	34	168
9	80	27	e29	e21	e23	e18	55	83	144	51	29	136
10	77	33	e28	e21	e19	e20	55	79	116	48	27	102
11	78	34	e28	e20	e20	e20	56	71	96	46	27	97
12	77	33	e28	e21	e20	e20	53	63	108	42	25	149
13	80	32	e27	e21	e20	e21	53	60	113	38	23	125
14	77	28	e29	e22	e23	e22	60	64	108	37	22	101
15	74	28	e25	e23	e19	e21	64	88	104	37	22	90
16	72	26	e26	e22	e20	e20	59	120	102	39	20	83
17	71	25	e26	e24	e24	e22	58	123	98	37	19	91
18	70	28	e27	e25	e18	e20	53	158	94	35	19	94
19	68	22	e26	e25	e22	e21	54	194	94	35	19	91
20	69	24	e27	e27	e19	e23	51	205	90	60	23	85
21	69	28	e27	e23	e22	e22	48	196	90	63	33	75
22	69	31	e25	e23	e19	e26	50	129	104	48	32	69
23	68	26	e24	e23	e18	e25	52	107	100	47	29	65
24	63	22	e24	e21	e18	23	55	87	87	73	25	62
25	64	e30	e23	e21	e20	24	59	82	82	83	24	60
26	66	e25	e23	e21	e19	25	62	90	77	102	22	58
27	67	e28	e24	e23	e19	24	68	109	75	73	21	56
28	68	e26	e24	e21	e20	27	60	125	71	60	21	56
29	67	e27	e24	e24	---	29	42	148	68	50	22	60
30	67	e27	e25	e22	---	31	40	161	64	46	27	67
31	64	---	e24	e20	---	34	---	186	---	42	29	---
TOTAL	2244	869	808	693	562	688	1433	3231	3381	1668	866	2320
MEAN	72.39	28.97	26.06	22.35	20.07	22.19	47.77	104.2	112.7	53.81	27.94	77.33
MAX	86	35	29	27	24	34	68	205	181	102	42	168
MIN	63	22	23	20	18	18	22	42	64	35	19	20
AC-FT	4450	1720	1600	1370	1110	1360	2840	6410	6710	3310	1720	4600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2002, BY WATER YEAR (WY)

	MEAN	83.65	52.94	38.13	35.48	32.40	33.52	45.85	319.4	585.6	304.7	169.1	152.7
MAX	179	109	86.2	62.1	55.0	50.1	70.0	758	1484	852	355	305	
(WY)	1998	1999	1999	1999	1998	2001	2001	2001	1995	1995	1998	1997	
MIN	28.2	17.8	13.9	12.4	16.0	21.5	30.7	104	113	53.8	27.9	61.4	
(WY)	1991	1991	1992	1992	1992	1992	1993	2002	2002	2002	2002	1992	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1991 - 2002

ANNUAL TOTAL	65975	18763		
ANNUAL MEAN	180.8	51.41	154.8	
HIGHEST ANNUAL MEAN			268	1995
LOWEST ANNUAL MEAN			51.4	2002
HIGHEST DAILY MEAN	1560	May 24	205	May 20
LOWEST DAILY MEAN	22	Nov 19	18	Feb 18
ANNUAL SEVEN-DAY MINIMUM	24	Dec 23	19	Mar 1
ANNUAL RUNOFF (AC-FT)	130900		37220	112100
10 PERCENT EXCEEDS	369		101	337
50 PERCENT EXCEEDS	69		34	58
90 PERCENT EXCEEDS	28		20	25

e Estimated

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT

LOCATION.--Lat 40°35'37", long 109°55'54", in SE¹/₄SW¹/₄SW¹/₄ sec. 6, T. 2 N., R. 1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, on right bank, 3.2 mi upstream from U.S. Forest Boundary, and 9.6 mi northeast of Whiterocks.

DRAINAGE AREA.--109 mi².

PERIOD OF RECORD.--September 1899 to December 1903, April to December 1907, March 1908 to November 1910, October 1913 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as Whiterocks River in Canyon, 1899, and as Whiterocks Creek near Whiterocks, 1918-25. November 1917 to June 1921 United States Whiterocks Canal diverted above station (records equivalent if flow of Whiterocks Canal is included).

GAGE.--Water-stage recorder. Elevation of gage is 7,200 ft above NGVD of 1929, from topographic map. Prior to October 16, 1930, nonrecording gages at several sites within 2 mi of present site at various datums. October 16, 1930 to November 26, 1984, water-stage recorder at various sites and datums about 3 mi downstream.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow slightly regulated by small mountain lakes.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,640 ft³/s, Jun 22, 1983, gage height, 5.28 ft, from rating curve extended above 2,000 ft³/s, site and datum then in use; minimum recorded, 9.2 ft³/s, Apr 3, 1977, site and datum then in use. Minimum discharge at present site and datum, 4.9 ft³/s, Mar 30, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 26	0245	*223	*4.17	No peak greater than base discharge.			

Minimum daily discharge 18 ft³/s, Feb 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	44	e26	e24	e19	e20	30	63	117	43	58	36
2	43	40	e27	e23	e19	e20	30	55	128	43	55	34
3	41	40	e27	e23	e19	e20	29	59	134	44	55	34
4	41	39	e28	e22	e19	e20	29	63	135	43	53	34
5	41	41	e27	e22	e18	e20	30	76	118	e44	52	34
6	41	40	e27	e22	e19	e21	31	97	107	e44	50	41
7	41	e40	e28	e22	e20	e21	29	131	103	45	52	75
8	42	e39	e27	e22	e19	e21	29	117	99	49	54	96
9	50	e38	e26	e22	e19	e22	29	93	110	48	49	90
10	47	e38	e27	e22	e19	e21	30	84	108	48	47	69
11	49	e37	e27	e22	e19	e22	29	68	100	47	45	68
12	45	35	e28	e22	e20	e21	29	59	90	46	43	93
13	45	35	e27	e22	e19	e21	29	65	85	44	42	82
14	43	32	e28	e23	e19	e21	34	98	80	43	41	70
15	42	32	e29	e23	e20	e21	37	99	78	44	40	65
16	43	32	e30	e22	e20	e21	33	109	74	43	38	62
17	43	32	e28	e21	e20	e21	32	99	71	39	49	65
18	42	33	e28	e21	e20	e21	30	113	68	38	53	65
19	41	29	e28	e20	e20	e21	31	123	67	38	52	64
20	41	e27	e27	e20	e20	e22	28	132	70	45	60	61
21	40	e26	e27	e20	e20	e22	26	134	63	49	71	57
22	40	e26	e28	e20	e20	e23	27	107	65	44	58	54
23	40	e27	e27	e20	e20	e22	29	94	65	47	53	53
24	36	e27	e26	e20	e20	e22	31	84	53	79	39	52
25	38	e26	e25	e21	e21	e22	36	77	49	91	37	51
26	40	e26	e24	e20	e21	25	40	72	49	150	36	51
27	41	e27	e24	e19	e20	26	41	72	47	101	35	50
28	41	e28	e24	e19	e20	27	36	114	46	88	35	50
29	40	e27	e24	e19	---	27	37	116	45	79	38	54
30	40	e26	e24	e19	---	29	50	117	44	70	41	59
31	48	---	e24	e19	---	30	---	121	---	64	37	---
TOTAL	1312	989	827	656	549	693	961	2911	2468	1740	1468	1769
MEAN	42.32	32.97	26.68	21.16	19.61	22.35	32.03	93.90	82.27	56.13	47.35	58.97
MAX	50	44	30	24	21	30	50	134	135	150	71	96
MIN	36	26	24	19	18	20	26	55	44	38	35	34
AC-FT	2600	1960	1640	1300	1090	1370	1910	5770	4900	3450	2910	3510

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

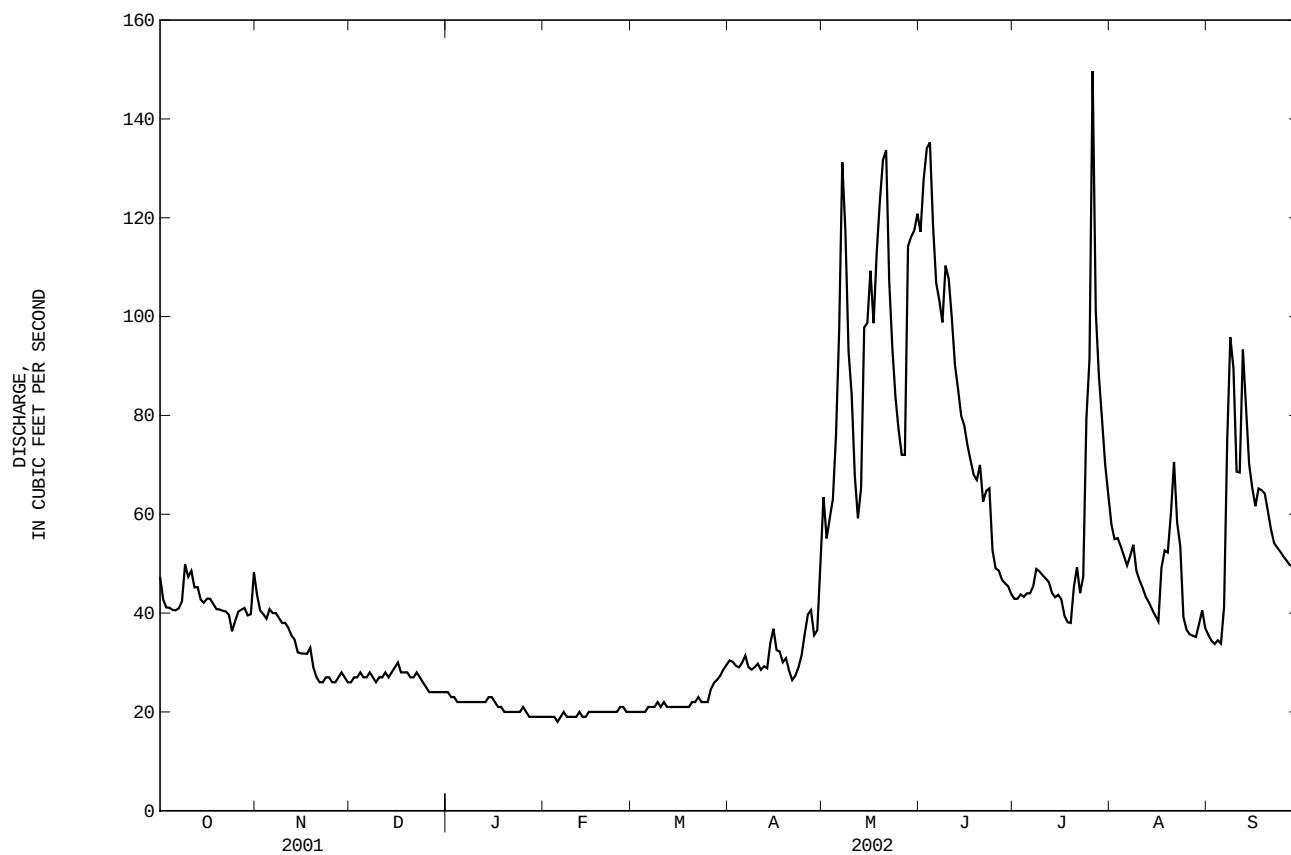
	MEAN	67.94	45.24	34.64	29.62	27.06	27.89	48.23	278.9	395.1	180.4	124.0	94.10
MAX	155	93.0	58.7	47.2	37.8	41.0	118	584	1178	573	238	217	
(WY)	1939	1939	1942	1930	1930	1986	1962	1937	1983	1995	1984	1997	
MIN	34.8	28.6	19.3	17.7	17.0	17.8	22.9	74.8	50.1	22.4	41.7	42.8	
(WY)	1989	1978	1991	1991	1977	1961	1975	1957	1934	1934	1940	1933	

GREEN RIVER BASIN

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1930 - 2002	
ANNUAL TOTAL	42207		16343		113.1	
ANNUAL MEAN	115.6		44.78		209	
HIGHEST ANNUAL MEAN					42.0	
LOWEST ANNUAL MEAN					2300	
HIGHEST DAILY MEAN	795	May 17	150	Jul 26	2300	Jun 22 1983
LOWEST DAILY MEAN	24	Dec 26	18	Feb 5	14	Feb 24 1977
ANNUAL SEVEN-DAY MINIMUM	24	Dec 25	19	Jan 30	15	Jan 20 1991
ANNUAL RUNOFF (AC-FT)	83720		32420		81900	
10 PERCENT EXCEEDS	265		89		247	
50 PERCENT EXCEEDS	41		38		51	
90 PERCENT EXCEEDS	27		20		25	

e Estimated



09301500 UINTA RIVER AT RANDLETT, UT

LOCATION.--Lat 40°14'01", long 109°48'11", in SE¹/₄NE¹/₄SE¹/₄ sec. 07, T. 3 S., R. 2 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank at Randlett, 0.1 mi upstream from county road bridge on State Highway 88, and 2.8 mi from mouth.

DRAINAGE AREA.--1,064 mi².

PERIOD OF RECORD.--November 1899 to November 1904, October 1976 to September 1981, November 1899 to November 1904, published as "at Ouray School", April 1997 to February 1998 miscellaneous measurements, March 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,790 ft above NGVD of 1929, from topographic map. November 1899 to November 1904, staff gage at different datum; October 1976 to September 1981 also at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,310 ft³/s, Jun 17, 1998, gage height 9.24 ft; minimum daily discharge, 1.4 ft³/s, Jul 18, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87 ft³/s, Aug 29, gage height, 4.43 ft; minimum daily discharge, 1.4 ft³/s, Jul 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	18	22	e14	e12	e37	9.2	14	5.9	2.6	2.7	3.0
2	11	17	21	e15	e12	e36	7.4	13	4.8	2.0	4.5	2.2
3	8.3	18	21	e14	e12	e35	6.9	9.5	4.7	2.8	6.4	1.8
4	9.8	16	e21	e13	e12	e35	7.2	9.9	7.1	3.8	5.2	1.7
5	9.4	17	e22	e13	e13	e37	9.8	8.8	7.4	3.9	4.5	2.2
6	9.5	18	22	e12	e13	e39	9.3	9.7	3.4	4.9	3.8	6.6
7	10	19	24	e12	e13	e38	8.2	12	3.6	5.1	3.5	9.9
8	11	20	e22	e12	e15	e36	7.4	11	5.9	3.2	4.0	33
9	14	20	e21	e11	e20	e33	7.9	12	5.2	1.8	4.4	22
10	16	20	21	e11	e20	e30	7.5	15	3.8	2.0	4.3	12
11	26	20	22	e11	e21	e30	7.6	14	4.4	3.2	4.9	12
12	26	21	e23	e11	e21	e30	7.4	14	5.9	3.3	2.7	28
13	27	21	e23	e11	e22	e30	8.6	20	5.6	2.6	2.2	33
14	32	25	e22	e11	e22	26	8.7	18	5.0	3.2	3.5	18
15	26	27	e21	e11	e23	27	8.8	14	4.8	3.1	2.8	17
16	25	23	e20	e11	e25	26	9.4	11	3.6	3.3	2.8	17
17	27	23	e20	e11	e27	31	9.2	15	7.1	2.2	2.6	16
18	24	25	e20	e11	e29	26	11	14	9.4	1.4	3.1	16
19	22	25	e19	e11	e31	27	8.9	8.1	7.5	1.7	2.9	25
20	19	24	e18	e11	e32	32	7.9	9.1	8.2	1.8	2.7	30
21	16	20	e17	e11	e34	38	9.5	9.2	3.8	1.7	3.3	22
22	15	19	e16	e11	e36	39	10	7.6	6.8	1.6	2.9	17
23	16	21	e15	e11	e38	40	8.9	7.7	5.6	2.0	4.7	13
24	15	22	e14	e11	e39	39	9.6	11	4.9	2.6	7.5	9.8
25	14	22	e13	e11	e40	35	9.8	11	4.3	2.2	6.2	9.3
26	14	25	e12	e11	e39	32	11	7.4	3.2	3.3	5.9	11
27	14	26	e12	e12	e38	25	10	5.7	4.5	7.3	5.4	15
28	14	23	e12	e13	e38	20	10	9.0	3.2	4.6	2.9	18
29	16	24	e12	e13	---	16	10	8.1	4.3	2.8	13	18
30	17	24	e12	e12	---	13	13	7.1	3.3	2.6	15	21
31	18	---	e13	e12	---	12	---	7.2	---	2.9	4.2	---
TOTAL	535.0	643	573	365	697	950	270.1	343.1	157.2	91.5	144.5	460.5
MEAN	17.26	21.43	18.48	11.77	24.89	30.65	9.003	11.07	5.240	2.952	4.661	15.35
MAX	32	27	24	15	40	40	13	20	9.4	7.3	15	33
MIN	8.3	16	12	11	12	12	6.9	5.7	3.2	1.4	2.2	1.7
AC-FT	1060	1280	1140	724	1380	1880	536	681	312	181	287	913

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977-81, 1999-2002, BY WATER YEAR (WY)

	MEAN	62.83	71.07	55.85	52.61	80.78	89.75	52.16	156.8	433.3	84.91	44.38	71.65
MAX	208	292	185	153	189	223	134	532	1411	455	150	297	
(WY)	1999	1999	1999	1999	1999	1979	1998	2001	1998	1998	1998	1999	
MIN	16.8	13.6	18.5	11.8	20.5	24.2	9.00	11.1	5.24	2.95	4.66	14.6	
(WY)	1978	1978	2002	2002	1978	1977	2002	2002	2002	2002	2002	1979	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1977-81, 1999-2002

ANNUAL TOTAL	31371.2	5229.9		
ANNUAL MEAN	85.95	14.33	88.93	
HIGHEST ANNUAL MEAN			284	1999
LOWEST ANNUAL MEAN			14.3	2002
HIGHEST DAILY MEAN	1240	May 17	40	Feb 25
LOWEST DAILY MEAN	6.2	Sep 25	1.4	Jul 18
ANNUAL SEVEN-DAY MINIMUM	8.2	Sep 21	1.8	Jul 17
ANNUAL RUNOFF (AC-FT)	62220		10370	
10 PERCENT EXCEEDS	107		28	
50 PERCENT EXCEEDS	28		12	
90 PERCENT EXCEEDS	16		3.2	

e Estimated

GREEN RIVER BASIN

09302000 DUCHESNE RIVER NEAR RANDLETT, UT

LOCATION.--Lat 40°12'56", long 109°46'58", in SW¹/₄SW¹/₄SW¹/₄ sec. 16, T. 3 S., R. 2 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 0.25 mi downstream from Uintah River 1.2 mi southeast of Randlett, and 6.5 mi southeast of Fort Duchesne.

DRAINAGE AREA.--4,247 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,756.1 ft above NGVD of 1929. Prior to August 23, 1944 at site 300 ft downstream at different datum. August 23, 1944 to September 4, 1964 at site 200 ft upstream at datum 1.87 ft higher. September 5, 1964 to June 6, 1968 at site 700 ft upstream at datum 1.68 ft higher. June 7, 1968 to August 31, 1970 at site 200 ft upstream at datum 1.87 ft higher. September 1, 1970 to June 7, 1975 at site 300 ft upstream at datum 2.23 ft higher. June 7, 1975 to May 5, 1977 at site 200 ft upstream at datum 1.87 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transbasin diversions to the Great Basin through Duchesne and Strawberry Tunnels, Hobbie Creek Ditch, Strawberry River, and Willow Creek Ditch.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,500 ft³/s, Jun 20, 1983; maximum gage height 10.22 ft, Jun 5, 1986; minimum daily discharge, 0.78 ft³/s, Aug 21, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 168 ft³/s, Mar 26, gage height, 2.85 ft; minimum daily discharge, 0.78 ft³/s, Aug 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	51	101	e99	e107	e150	105	21	15	5.5	4.7	15
2	19	55	101	e98	e108	e155	86	21	26	2.0	3.8	17
3	15	61	104	e94	e109	e158	82	14	74	2.4	10	13
4	7.5	61	104	e93	e110	e160	78	15	54	4.6	7.8	13
5	7.6	65	82	e93	e112	e160	44	12	41	e21	4.5	9.2
6	7.3	66	104	e92	e113	e160	29	13	26	e8.2	3.2	12
7	11	65	117	e92	e115	e160	21	23	17	10	2.5	24
8	11	65	104	e92	e120	e160	25	13	16	8.6	2.0	63
9	15	71	e82	e91	e125	e157	20	15	10	5.0	4.2	92
10	21	72	e92	e96	e122	e154	14	23	9.4	1.5	3.5	75
11	28	77	e99	e94	e124	e148	13	43	11	1.1	3.8	68
12	24	75	e102	e91	e125	e145	13	58	22	3.1	4.8	99
13	22	77	e97	e90	e127	137	14	57	21	2.8	2.4	123
14	39	75	e95	e89	e126	119	14	43	17	2.3	1.0	84
15	46	77	e99	e89	e125	112	16	35	17	2.9	1.8	74
16	49	72	e100	e88	e130	110	20	25	14	2.7	2.3	72
17	49	76	e100	e88	e132	115	23	28	24	2.9	1.9	68
18	54	80	e100	e88	e139	105	19	27	40	1.4	1.4	59
19	51	78	e99	e88	e141	105	26	16	39	1.5	2.7	73
20	47	80	e98	e88	e142	113	26	13	30	6.2	1.5	80
21	35	74	e97	e88	e149	120	26	16	30	11	0.78	69
22	31	79	e99	e88	e151	116	29	13	24	11	1.3	66
23	32	82	e95	e91	e153	123	22	44	25	6.0	0.89	67
24	35	82	e94	e96	e149	121	18	41	27	5.3	6.6	61
25	38	84	e93	e102	e145	133	16	49	17	4.6	10	54
26	40	92	e92	e102	e145	147	16	38	9.4	12	6.4	46
27	43	89	e92	e103	e145	143	16	22	8.3	28	7.2	41
28	46	72	e92	e104	e148	144	20	29	6.6	18	5.5	25
29	48	89	e92	e102	---	157	29	31	6.1	14	11	21
30	50	114	e92	e106	---	132	31	31	11	8.2	41	23
31	50	---	e96	e106	---	108	---	22	---	7.0	22	---
TOTAL	991.4	2256	3014	2921	3637	4227	911	851	687.8	220.8	182.47	1606.2
MEAN	31.98	75.20	97.23	94.23	129.9	136.4	30.37	27.45	22.93	7.123	5.886	53.54
MAX	54	114	117	106	153	160	105	58	74	28	41	123
MIN	7.3	51	82	88	107	105	13	12	6.1	1.1	0.78	9.2
AC-FT	1970	4470	5980	5790	7210	8380	1810	1690	1360	438	362	3190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2002, BY WATER YEAR (WY)

	MEAN	312.7	383.4	408.7	396.9	436.6	486.4	399.8	965.0	1857	498.8	209.1	229.0
MAX	1529	1443	1353	1246	964	1202	1865	4938	7988	3177	926	1264	
(WY)	1984	1984	1984	1984	1984	1983	1952	1983	1995	1965	1997		
MIN	32.0	42.6	39.6	43.3	52.6	86.4	28.5	27.5	22.9	7.12	5.89	18.9	
(WY)	2002	1990	1990	1990	1990	1995	1961	2002	2002	2002	2002	1960	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1943 - 2002

ANNUAL TOTAL	70674.4	21505.67	547.7
ANNUAL MEAN	193.6	58.92	1736
HIGHEST ANNUAL MEAN			58.9
LOWEST ANNUAL MEAN			11500
HIGHEST DAILY MEAN	2440	May 26	160
LOWEST DAILY MEAN	7.3	Oct 6	0.78
ANNUAL SEVEN-DAY MINIMUM	11	Oct 3	1.5
ANNUAL RUNOFF (AC-FT)	140200		42660
10 PERCENT EXCEEDS	267		1100
50 PERCENT EXCEEDS	94		330
90 PERCENT EXCEEDS	35		5.2

e Estimated

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1950 to September 1951, November 1956 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1950 to September 1951, November 1956 to September 1980, June 1981 to current year.

WATER TEMPERATURES: December 1950 to September 1951, November 1956 to September 1978, October 1979 to September 1980, June 1981 to current year.

INSTRUMENTATION.--Temperature data logger April, 1999 to current year.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 4,490 microsiemens, Aug 24, 1960; minimum observed, 225 microsiemens, Jun 22, 1983.

WATER TEMPERATURES: Maximum, 31.5°C, Jul 9, 14, 2002; minimum, 0.0°C, on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum observed, 3,300 microsiemens, Jul 31, Aug 2, 6, 13, 18; minimum observed, 1,020 microsiemens, Jan 29.

WATER TEMPERATURE: Maximum recorded, 31.5°C, Jul 9, 14; minimum recorded, 0.0°C, on many days during winter period.

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

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	GAGE HEIGHT (FEET) (00065)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT 10...	0950	--	--	--	--	8.4	2400	--	9.5	2.07	1750
NOV 06...	1330	71	--	--	--	8.1	1770	14.0	7.7	2.39	1270
DEC 10...	1400	136	--	--	--	8.1	1680	1.0	.2	--	1130
JAN 22...	1715	102	--	--	--	8.1	1260	-1.0	.2	--	880
FEB 26...	1615	146	650	112	13.8	8.4	1090	3.0	.1	3.18	712
APR 26...	0940	19	630	108	9.1	8.2	3120	--	13.7	2.14	2370
MAY 24...	0910	42	643	97	8.5	8.4	2380	13.0	13.2	2.27	1740
JUL 08...	1415	9.7	639	136	8.6	8.3	2660	--	29.1	2.17	1870
AUG 16...	0930	3.0	641	95	7.3	8.2	2460	25.1	19.4	1.92	1810
SEP 11...	0920	--	629	92	7.0	8.2	2010	--	18.8	2.33	1470

GREEN RIVER BASIN

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2010	1760	1590	1120	1100	1170	2670	2250	2230	2440	2360	2060
2	2320	1720	1610	1130	1040	1080	2500	2230	2550	2310	3300	2070
3	1840	1710	1620	1130	1120	1140	2520	2260	2090	2640	2360	2060
4	1850	1710	1620	1120	1130	1170	2760	2310	2120	3060	3290	2060
5	2390	---	1620	1100	1120	1130	2530	2300	2080	2630	2370	2140
6	2430	---	1660	1130	1120	1100	2730	2680	2090	3010	3300	1940
7	2310	---	1640	1100	1120	1170	2520	2230	2190	2620	2360	1930
8	1810	---	1660	1120	1120	1070	2550	1950	2100	3060	2360	2140
9	1810	---	1670	1100	1100	1170	2520	2230	2180	2620	1860	2110
10	2290	---	1510	1130	1110	1100	2890	1950	2110	2630	1860	2150
11	2300	---	1670	1130	1110	1090	2880	2230	2140	3000	3230	2140
12	1860	---	1660	1100	1110	1130	2890	2230	2110	3050	1860	2140
13	2300	---	1490	1130	1110	1080	2880	1950	2130	3000	3300	1930
14	1830	1680	1220	1050	1160	1260	3000	2570	2060	2990	1860	1950
15	1820	1700	1190	1120	1160	1480	2890	1940	2140	3030	1860	1720
16	1800	1700	1230	1040	1160	1090	2730	2560	2070	3020	3230	1830
17	1840	1610	1240	1050	1110	1100	3000	1920	2070	3010	3230	1720
18	1860	1580	1180	1150	1160	1040	2740	2560	2060	3040	3300	1820
19	1860	1630	1180	1100	1160	1070	3010	1930	2070	2590	3230	1700
20	1850	1710	1230	1050	1080	1240	2730	2570	2050	2590	1860	1710
21	1860	1600	1240	1080	1160	1500	2990	2680	2280	3010	1860	1830
22	1750	1690	1170	1110	1100	1230	2890	2320	2290	2590	3230	1710
23	1760	1720	1180	1050	1080	1250	2910	2680	2280	2560	3190	1820
24	1850	1630	1200	1100	1170	1240	2900	2300	2290	2640	1860	1820
25	1760	1590	1190	1100	1100	1460	2250	2670	2270	2630	2420	1710
26	1870	1700	1200	1050	1080	1240	2290	2680	2280	2650	2420	1810
27	1870	1700	1190	1090	1170	1470	2260	2250	2420	2630	2410	2130
28	1760	1630	1190	1050	1100	1250	2300	2670	2420	2640	2410	2120
29	1770	1600	1140	1020	---	1500	2680	2560	2420	2650	2420	2120
30	1730	1670	1140	1120	---	1250	2680	2230	2430	2370	2420	2280
31	1710	---	1130	1100	---	1460	---	2560	---	3300	2060	---
MAX	2430	---	1670	1150	1170	1500	3010	2680	2550	3300	3300	2280
MIN	1710	---	1130	1020	1040	1040	2250	1920	2050	2310	1860	1700

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	25.5	7.6	15.8	11.7	8.3	9.9	0.7	0.2	0.4	0.0	0.0	0.0
2	26.0	8.3	16.1	11.0	7.5	9.3	0.9	0.2	0.7	0.0	0.0	0.0
3	16.4	6.4	12.8	10.7	7.1	8.8	0.9	0.2	0.6	0.0	0.0	0.0
4	---	---	---	9.8	6.3	8.1	0.5	0.1	0.3	0.0	0.0	0.0
5	---	---	---	10.7	7.3	8.9	0.6	0.1	0.3	0.0	0.0	0.0
6	---	---	---	11.1	7.6	9.4	0.7	0.1	0.4	0.0	0.0	0.0
7	---	---	---	10.3	9.3	9.9	0.7	0.1	0.4	0.0	0.0	0.0
8	---	---	---	10.7	7.6	9.0	0.4	0.0	0.3	0.0	0.0	0.0
9	---	---	---	9.1	6.1	7.6	0.2	0.0	0.0	0.0	0.0	0.0
10	---	---	---	7.9	5.8	6.8	0.2	0.0	0.0	0.0	0.0	0.0
11	---	---	---	9.6	6.4	7.8	0.1	0.0	0.0	0.0	0.0	0.0
12	---	---	---	9.5	6.7	8.2	0.1	0.0	0.0	0.0	0.0	0.0
13	---	---	---	8.5	6.7	7.7	0.0	0.0	0.0	0.0	0.0	0.0
14	11.9	7.3	9.5	8.9	5.9	7.4	0.0	0.0	0.0	0.0	0.0	0.0
15	12.5	7.8	10	8.0	5.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
16	12.4	7.9	10.1	7.3	4.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0
17	12.1	8.4	10.2	6.6	3.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0
18	12.2	8.5	10.3	6.8	4.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0
19	11.8	7.3	9.6	7.3	4.5	5.7	0.1	0.0	0.0	0.0	0.0	0.0
20	11.8	7.9	9.8	5.9	3.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
21	10.2	7.9	9.2	5.3	2.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0
22	11.0	7.0	9.0	5.5	4.2	4.8	0.0	0.0	0.0	0.0	0.0	0.0
23	11.5	7.1	9.0	6.5	4.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0
24	9.5	5.3	7.4	4.8	3.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0
25	8.9	4.9	6.9	4.0	1.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0
26	8.9	4.8	6.9	2.4	0.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
27	8.9	5.0	7.0	2.5	0.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0
28	10.7	6.4	8.6	1.4	0.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
29	12.1	8.5	10.2	0.7	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0
30	12.1	9.7	10.9	1.3	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
31	12.7	9.9	11.3	---	---	---	0.0	0.0	0.0	0.1	0.0	0.0
MONTH	---	---	---	11.7	0.2	5.9	0.9	0.0	0.1	0.1	0.0	0.0

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	0.0	0.0	0.0	0.1	0.0	0.0	14.3	8.2	11.1	18.4	12.0	15.3
2	0.0	0.0	0.0	0.1	0.0	0.0	14.8	8.5	11.4	19.8	11.7	15.4
3	0.0	0.0	0.0	0.1	0.0	0.0	14.7	8.4	11.5	18.0	11.8	14.9
4	0.0	0.0	0.0	0.1	0.0	0.0	16.0	8.8	12.4	19.9	11.5	15.5
5	0.0	0.0	0.0	0.1	0.0	0.0	16.7	10.1	13.4	18.9	12.5	15.7
6	0.0	0.0	0.0	0.1	0.0	0.0	15.8	11.1	13.3	20.5	12.4	16.4
7	0.0	0.0	0.0	0.2	0.0	0.0	17.3	10.5	13.4	20.2	13.7	16.6
8	0.0	0.0	0.0	0.1	0.0	0.0	16.0	9.7	12.5	17.5	9.6	13.4
9	0.0	0.0	0.0	0.2	0.0	0.0	16.3	9.5	12.7	18.1	9.4	13.6
10	0.0	0.0	0.0	0.3	0.0	0.1	14.6	11.4	12.6	16.4	12.2	14.0
11	0.0	0.0	0.0	0.5	0.0	0.1	16.9	9.5	12.9	16.7	11.8	13.9
12	0.0	0.0	0.0	0.9	0.0	0.4	17.0	10.1	12.9	18.8	11.1	14.8
13	0.0	0.0	0.0	1.0	0.2	0.6	18.6	9.5	13.8	20.2	12.5	16.3
14	0.0	0.0	0.0	2.6	0.0	1	18.3	11.4	14.7	20.6	14.4	17.3
15	0.0	0.0	0.0	4.0	0.0	1.7	14.4	11.3	12.6	20.7	14.7	17.4
16	0.0	0.0	0.0	3.4	0.5	1.9	14.5	8.2	11.5	20.6	15.0	17.4
17	0.0	0.0	0.0	3.8	0.8	2.1	11.5	8.0	9.8	21.3	14.1	17.7
18	0.0	0.0	0.0	6.5	0.9	3.4	13.5	6.7	9.6	22.2	15.5	18.6
19	0.0	0.0	0.0	6.9	1.5	4.2	15.4	8.5	11.7	23.1	15.3	19.0
20	0.0	0.0	0.0	8.4	2.2	5.2	12.4	8.5	10.6	21.6	16.8	19.0
21	0.0	0.0	0.0	9.2	3.8	6.6	14.3	6.2	10.1	18.0	12.7	15.6
22	0.0	0.0	0.0	11.4	5.2	8.2	15.9	8.4	12.0	16.6	9.7	13.0
23	0.0	0.0	0.0	10.3	7.2	8.6	17.0	9.5	13.1	17.3	10.4	13.6
24	0.0	0.0	0.0	9.7	5.5	7.7	18.0	9.9	13.6	20.5	12.5	16.2
25	0.0	0.0	0.0	11.1	6.4	8.5	18.9	11.4	14.9	21.1	13.8	17.3
26	0.0	0.0	0.0	11.3	5.9	8.6	18.8	12.4	15.2	22.0	14.8	18.3
27	0.1	0.0	0.0	11.5	7.1	9.3	14.9	11.8	13.2	22.9	15.7	19.3
28	0.1	0.0	0.0	11.6	6.4	8.9	17.6	10.5	13.8	23.7	16.0	19.9
29	---	---	---	12.8	6.5	9.5	19.3	11.2	15.0	23.5	17.3	20.4
30	---	---	---	12.9	7.5	10.2	19.8	12.4	16.1	26.2	17.3	21.6
31	---	---	---	14.4	7.7	10.8	---	---	---	26.9	19.0	22.8
MONTH	0.1	0.0	0.0	14.4	0.0	3.8	19.8	6.2	12.7	26.9	9.4	16.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	23.2	19.0	20.8	24.6	20.0	21.9	25.8	20.6	23.3	25.8	17.6	21.3
2	21.5	16.4	18.9	---	---	---	23.5	21.7	22.6	26.1	16.7	21.2
3	19.2	16.5	17.9	26.0	23.0	24.4	25.7	20.1	22.5	25.7	13.8	20.0
4	23.9	14.9	19.2	29.1	20.5	24.7	27.5	19.9	23.4	29.8	12.9	20.5
5	25.3	16.8	21.0	29.0	21.7	24.3	26.4	20.4	21.9	18.9	13.5	16.3
6	26.5	18.2	22.3	29.1	21.8	25.1	---	---	---	19.8	18.7	19.3
7	24.4	18.9	21.8	29.2	21.2	25.3	---	---	---	20.5	18.1	19.1
8	24.5	18.2	21.0	30.0	22.6	26.4	---	---	---	19.4	17.0	18.2
9	22.3	14.2	18.6	31.5	22.0	26.4	---	---	---	21.2	16.3	18.5
10	22.1	12.1	16.8	---	---	---	---	---	---	22.5	16.8	19.6
11	23.9	14.4	19.1	---	---	---	---	---	---	20.8	18.4	19.3
12	24.8	16.2	20.3	29.9	25.1	28.3	---	---	---	19.8	17.4	18.3
13	25.6	16.8	21.1	27.3	21.5	23.4	---	---	---	22.4	16.7	19.3
14	26.8	17.7	22.1	31.5	24.6	28.0	---	---	---	23.1	17.1	20.0
15	26.4	18.9	22.8	30.7	21.8	25.4	---	---	---	22.7	17.3	20.0
16	27.5	18.7	23.0	---	---	---	---	---	---	22.2	17.3	19.4
17	25.2	19.4	22.3	---	---	---	---	---	---	18.8	16.1	17.5
18	26.2	18.4	22.1	---	---	---	---	---	---	18.7	15.1	16.8
19	26.1	19.7	22.8	25.0	24.6	24.9	---	---	---	19.1	14.3	16.7
20	27.1	19.9	23.3	26.5	22.6	24.1	---	---	---	19.5	14.2	16.8
21	23.6	19.7	22.1	28.8	20.7	24.6	---	---	---	19.6	14.4	17.0
22	25.9	19.1	22.3	29.4	21.7	25.4	---	---	---	18.9	13.9	16.5
23	27.2	18.4	22.9	29.2	23.2	25.8	---	---	---	18.8	13.8	16.3
24	28.1	19.8	23.9	29.4	21.0	24.7	26.6	21.1	24.5	18.8	13.8	16.3
25	28.7	20.2	24.4	27.9	21.2	24.0	26.5	18.3	21.9	17.2	14.8	16.1
26	28.4	20.9	24.4	25.6	21.1	23.6	21.1	14.9	17.6	18.8	13.9	16.2
27	27.8	19.6	23.6	24.7	20.7	23.0	---	---	---	17.6	13.5	15.6
28	28.8	19.8	22.9	26.9	19.9	23.1	---	---	---	17.4	14.2	15.7
29	27.5	23.1	25.7	27.6	19.4	23.4	19.0	17.8	18.5	15.7	14.2	15.0
30	28.3	19.8	24.0	29.1	20.9	25.0	21.7	14.7	18.2	16.5	12.3	14.4
31	---	---	---	28.0	21.4	24.8	24.1	17.2	20.5	---	---	---
MONTH	28.8	12.1	21.8	---	---	---	---	---	---	29.8	12.3	17.9

GREEN RIVER BASIN

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	8.5	0.0	1.5	0.0	1.0	10	12.0	14.0	29.5	28.0	22.5
2	13.0	8.5	0.0	0.5	0.0	1.0	11	12.5	16.5	28.0	29.0	22.0
3	13.0	8.5	0.0	1.0	0.0	1.0	12	12.5	16.5	24.5	29.0	22.0
4	13.0	8.5	0.0	1.0	0.0	1.0	10	12.0	14.5	30.0	28.5	22.0
5	12.0	---	1.5	2.0	0.0	1.0	12	12.0	17.0	30.5	28.0	22.0
6	12.0	---	0.0	2.0	0.5	1.0	12	12.5	16.0	30.0	28.5	23.0
7	12.0	---	0.0	2.0	0.0	1.0	12	12.5	16.5	30.5	28.0	22.5
8	12.0	---	0.0	0.0	1.5	1.0	12	12.0	25.5	27.0	27.5	22.0
9	8.5	---	0.0	0.0	1.5	1.0	12	12.5	25.5	30.0	28.0	21.5
10	12.0	---	0.0	0.0	1.0	1.5	13.5	13.0	26.0	30.0	26.0	22.0
11	12.0	---	0.0	0.0	1.5	1.0	13	12.5	26.0	29.5	26.5	22.0
12	12.0	---	0.0	0.0	1.5	1.0	12.5	13.0	25.0	30.0	27.5	22.5
13	8.0	---	0.0	0.0	2.0	1.0	13	13.0	25.0	30.5	27.5	20.5
14	8.0	5.0	0.0	0.0	1.0	1.0	12.5	13.0	26.5	30.5	27.0	19.0
15	8.5	5.0	0.5	0.0	1.0	1.0	12.5	13.5	26.5	29.5	27.0	19.0
16	8.5	5.0	0.5	0.0	1.0	1.0	12.5	13.0	26.5	29.5	27.5	18.5
17	10.0	5.0	0.0	0.0	1.0	1.0	12.5	13.0	25.0	30.0	27.0	18.0
18	11.0	5.0	0.0	0.0	1.0	7.5	12	13.0	25.5	30.5	27.0	18.5
19	8.5	5.0	0.5	0.0	1.0	3.5	12.5	14.5	26.5	30.5	27.0	18.0
20	8.5	4.5	0.5	0.0	1.0	4.0	11.5	15.0	27.5	30.5	27.0	18.0
21	9.0	4.5	0.5	0.0	1.0	4.5	12.5	12.0	27.0	29.5	26.0	12.5
22	9.0	2.0	0.0	0.0	1.0	4.0	13.0	12.0	27.5	29.5	25.5	14.5
23	9.5	2.0	0.0	0.0	1.0	4.0	13.0	11.5	28.0	30.0	25.0	15.0
24	9.5	2.0	0.0	0.0	1.0	8.0	12.0	12.0	28.0	30.0	26.0	15.0
25	9.0	1.0	1.0	0.0	2.0	8.5	12.0	12.5	28.0	28.0	26.0	12.0
26	11.5	0.5	1.0	0.0	1.5	9.0	12.5	14.0	28.0	28.0	26.0	10.5
27	10.5	0.5	0.0	0.0	1.0	9.0	13.0	13.0	28.0	29.0	24.5	10.0
28	11.5	0.5	0.0	0.0	1.5	10	13.0	13.0	27.0	28.0	24.0	14.5
29	11.5	0.5	1.0	0.0	---	10	12.0	14.5	28.0	28.0	24.0	14.5
30	10.5	0.5	1.0	0.0	---	10	12.0	14.5	28.0	28.0	23.0	12.5
31	10.5	---	1.0	0.5	---	10	---	13.5	---	28.0	22.5	---
MAX	13.0	---	1.5	2.0	2.0	10.0	13.5	15.0	28.0	30.5	29.0	23.0
MIN	8.0	---	0.0	0.0	0.0	1.0	10.0	11.5	14.0	24.5	22.5	10.0

09306500 WHITE RIVER NEAR WATSON, UTAH

LOCATION.--Lat 39°58'44", long 109°10'41" , in SE¹/₄SW¹/₄NE¹/₄ sec. 2, T. 10 S., R. 24 E., Uintah County, Hydrologic Unit 14050007, on left bank 350 ft downstream from bridge on State Highway 45, 1 mi downstream from Evacuation Creek, and 7 mi north of Watson.

DRAINAGE AREA.--4,020 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1904 to October 1906 (no winter records), May to November 1918, April 1923 to September 1979, October 1985 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Dragon" 1906 and "near Rangely, Colo." 1904-1905, 1918.

GAGE.--Water-stage recorder. Datum of gage is 4,946.78 ft above NGVD of 1929. See WSP 1733 for history of changes prior to October 27, 1959.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 31,900 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 8,160 ft³/s, Jul 15, 1929; maximum gage height, 13.1 ft, Feb 11, 1962, from floodmark in well (backwater from ice); minimum, 11 ft³/s, Dec 6, 1972, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 12	2115	*1,310	*3.62				

Minimum discharge 17 ft³/s, Jul 20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	295	382	e250	e305	e305	e330	452	490	346	102	112	92
2	e290	387	e242	e303	e303	e310	445	505	395	98	116	83
3	e282	382	e233	e300	e302	e295	450	516	380	85	119	86
4	e273	371	e228	e290	e300	e284	469	485	381	73	109	79
5	275	379	e220	e290	e305	e295	473	482	454	75	110	70
6	283	366	e218	e290	e312	e310	458	496	393	67	149	67
7	276	346	e215	e292	e318	e350	478	532	327	81	135	67
8	298	352	e218	e293	e318	410	491	571	279	80	146	95
9	415	363	e222	e296	e313	537	497	626	251	70	142	116
10	542	368	e223	e305	e310	429	506	677	224	64	137	153
11	525	361	e222	e310	e315	325	526	550	200	68	129	162
12	436	359	e218	e318	e325	355	569	415	179	64	108	260
13	414	361	e215	e317	e328	424	566	351	163	55	106	384
14	435	360	e213	e312	e322	503	526	376	149	54	101	302
15	434	361	e213	e310	e318	565	508	321	140	52	96	253
16	425	359	e217	e308	e325	480	557	341	127	47	95	222
17	419	365	e220	e303	e330	384	584	371	113	39	89	230
18	412	361	e224	e300	e340	346	600	397	132	31	77	228
19	404	359	e224	e300	e342	388	564	389	108	24	66	260
20	408	358	e223	e302	e345	384	546	452	111	19	85	308
21	410	360	e223	e309	e350	382	519	507	93	23	111	289
22	402	347	e225	e350	e353	403	530	535	64	31	82	288
23	400	e320	e234	e360	e352	516	501	568	56	42	82	292
24	390	e300	e245	e358	e352	600	e470	485	68	e60	78	262
25	390	e285	e256	e352	e350	627	e490	447	89	73	84	254
26	381	e272	e266	e340	e360	568	546	394	68	120	77	248
27	376	e260	e275	e335	e362	560	595	329	71	100	80	236
28	381	e252	e280	e340	e352	541	615	308	70	128	69	235
29	378	e248	e290	e330	---	534	635	323	83	150	55	270
30	380	e252	e295	e315	---	538	571	320	98	153	63	324
31	383	---	e305	e310	---	473	---	321	---	139	113	---
TOTAL	11812	10196	7352	9743	9207	13446	15737	13880	5612	2267	3121	6215
MEAN	381.0	339.9	237.2	314.3	328.8	433.7	524.6	447.7	187.1	73.13	100.7	207.2
MAX	542	387	305	360	362	627	635	677	454	153	149	384
MIN	273	248	213	290	300	284	445	308	56	19	55	67
AC-FT	23430	20220	14580	19330	18260	26670	31210	27530	11130	4500	6190	12330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2002, BY WATER YEAR (WY)

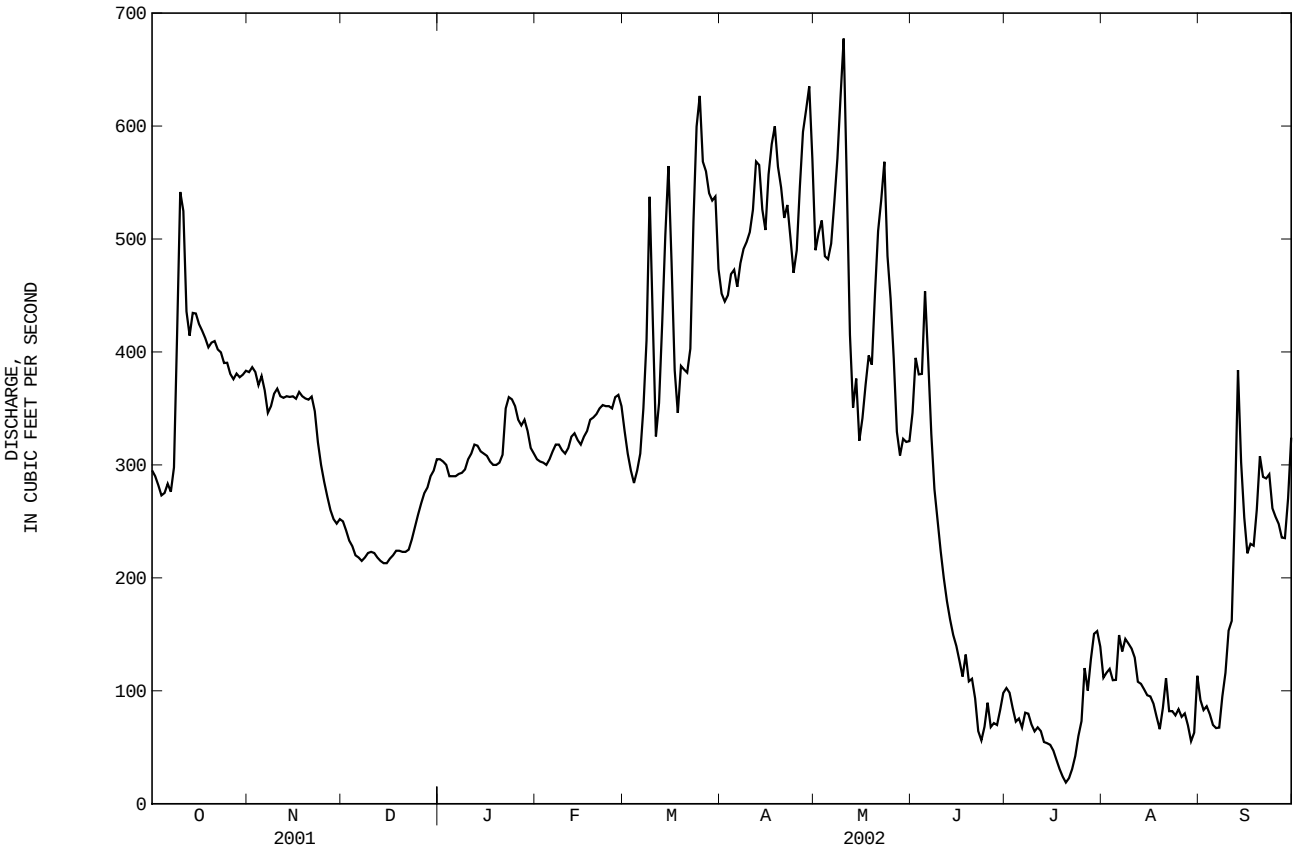
	MEAN	470.1	429.3	364.1	357.2	426.3	577.9	709.6	1601	1801	718.4	474.6	436.7
MAX	1029	716	600	580	1414	1180	2466	3537	4018	2923	1915	1917	
(WY)	1930	1998	1926	1926	1986	1939	1929	1929	1929	1929	1929	1929	
MIN	243	279	176	160	246	336	368	384	187	73.1	101	207	
(WY)	1964	1995	1995	1937	1949	1952	1961	1977	2002	2002	2002	2002	

GREEN RIVER BASIN

09306500 WHITE RIVER NEAR WATSON, UTAH--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1923 - 2002	
ANNUAL TOTAL	187768		108588		696.4	
ANNUAL MEAN	514.4		297.5		1736	
HIGHEST ANNUAL MEAN					298	
LOWEST ANNUAL MEAN					8160	
HIGHEST DAILY MEAN	2150	May 19	677	May 10	13	Jul 15 1929
LOWEST DAILY MEAN	193	Sep 9	19	Jul 20	30	Jul 3 1977
ANNUAL SEVEN-DAY MINIMUM	210	Sep 3	30	Jul 17	30	Jul 17 2002
ANNUAL RUNOFF (AC-FT)	372400		215400		504500	
10 PERCENT EXCEEDS	1110		511		1580	
50 PERCENT EXCEEDS	378		308		447	
90 PERCENT EXCEEDS	234		79		285	

e Estimated



09306500 WHITE RIVER NEAR WATSON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1950 to September 1979, October 1985 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1950 to September 1979, October 1986 to September 1993.

WATER TEMPERATURE: December 1950 to September 1979, October 1986 to September 1993.

SUSPENDED-SEDIMENT DISCHARGE: October 1976 to June 1979, October 1985 to September 1990.

INSTRUMENTATION.--Water-quality monitor November 1985 to September 1993.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 4,450 microsiemens, Aug 4, 1955; minimum recorded, 136 microsiemens, May 20, 1989.

WATER TEMPERATURE: Maximum recorded, 33.0°C, Jul 15, 1977; minimum, 0.0°C, many days during winter period.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 31,100 mg/L, Aug 8, 1987; minimum daily mean, 31 mg/L, Sep 7, 8, 1989.

SEDIMENT LOADS: Maximum daily, 121,000 tons, Aug 8, 1987; minimum daily, 12 tons, Sep 7, 8, 1989.

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

			DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	HARD-NESS NONCARB DISSOLV LAB AS CAC03 (MG/L) (00905)	
OCT 02...	1100	ENVIRONMENTAL	284	--	--	--	--	800	20.0	16.0	--	--	
NOV 07...	1630	ENVIRONMENTAL	366	--	--	--	8.2	690	8.0	9.5	--	--	
DEC 11...	1225	ENVIRONMENTAL	201	--	--	--	8.6	786	3.1	3.0	--	--	
JAN 24...	1130	ENVIRONMENTAL	358	636	98	11.9	7.9	720	-4.5	.0	--	--	
FEB 28...	1200	ENVIRONMENTAL	363	--	--	12.5	8.0	715	1.0	.1	--	--	
APR 24...	1430	ENVIRONMENTAL	469	648	113	9.7	8.6	595	--	14.7	240	--	
24...	1435	REPLICATE	469	648	113	9.7	8.6	595	--	14.7	--	--	
MAY 22...	1305	ENVIRONMENTAL	509	634	104	8.8	8.7	550	15.0	14.6	--	--	
JUL 09...	1445	ENVIRONMENTAL	70	642	121	7.6	8.4	945	35.4	30.2	--	--	
AUG 14...	0920	ENVIRONMENTAL	101	636	106	8.2	8.4	968	--	18.7	--	--	
SEP 10...	1120	ENVIRONMENTAL	175	640	111	8.6	8.4	994	--	19.0	370	160	
Date	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)	SODIUM PERCENT (00932)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CAC03) (90410)	ALKA-LINITY WAT. DIS FET LAB CAC03 (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 SI02) (00955)	SULFATE DIS-SOLVED (MG/L AS S04) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT 02...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 24...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 24...	60.1	20.7	1.46	1	36.9	25	157	--	9.50	.16	10.6	144	<.04
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 10...	84.3	38.5	4.07	2	81.3	32	261	205	28.7	.4	8.34	288	.033

GREEN RIVER BASIN

09306500 WHITE RIVER NEAR WATSON, UT--Continued

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

Date	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2) (00405)
OCT 02...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 24...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 24...	--	--	--	<.05	--	--	--	--	<.008	<.02	--	--	.7
MAY 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 10...	.65	.95	.28	.300	.61	.04	1.26	.049	.015	<.007	.49	.006	2.0

Date	GAGE HEIGHT (FEET) (00065)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 02...	2.02	--	--	506	--	--	--	--
NOV 07...	2.22	--	--	438	--	--	--	--
DEC 11...	--	--	--	524	--	--	--	--
JAN 24...	--	--	--	496	--	--	--	--
FEB 28...	--	--	--	480	--	--	--	--
APR 24...	2.34	.54	502	397	378	30	--	<2
MAY 22...	2.47	--	--	359	--	--	--	E1
JUL 09...	1.40	--	--	619	--	--	--	--
AUG 14...	1.50	--	--	646	--	--	--	--
SEP 10...	1.72	.96	334	708	658	100	<10	<2

E Estimated value.

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

09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW, UT (Transmountain diversion)

LOCATION.--Lat 39°40'03", long 111°18'41", in NW¹/₄NW¹/₄NE¹/₄ sec. 25, T. 13 S., R. 5 E., Sanpete County, Hydrologic Unit 14060007, on right bank 1,000 ft upstream from tunnel portal, 7.3 mi east-northeast of Fairview.

PERIOD OF RECORD.--July 1967 to current year. Seasonal records only. (July to September 1967, gage height only.)

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 8,660 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Fairview Tunnel diverts from San Rafael River and Price River drainages in the Colorado River Basin to San Pitch River in the Great Basin. Due to the location of the gage, reported flow may not be actual flow through tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66 ft³/s, Jun 17, 1993, gage height, 2.46 ft; no flow many days each year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e0.00	e0.03	9.5	8.3	4.8	3.5
2	---	---	---	---	---	---	e0.00	e0.04	7.9	8.2	4.9	3.5
3	---	---	---	---	---	---	e0.00	0.00	6.0	8.2	2.6	3.3
4	---	---	---	---	---	---	e0.03	0.01	5.4	8.2	0.21	3.1
5	---	---	---	---	---	---	e0.11	0.02	6.7	8.1	3.6	3.0
6	---	---	---	---	---	---	e0.13	0.01	7.7	8.0	3.2	3.2
7	---	---	---	---	---	---	e0.02	0.00	9.6	7.6	2.9	3.2
8	---	---	---	---	---	---	e0.00	0.00	9.6	6.0	2.4	3.2
9	---	---	---	---	---	---	e0.00	0.00	9.6	5.3	2.0	3.0
10	---	---	---	---	---	---	e0.00	0.00	8.4	3.4	0.88	2.9
11	---	---	---	---	---	---	e0.00	0.00	6.5	3.3	0.69	3.4
12	---	---	---	---	---	---	e0.00	0.00	7.0	3.1	0.48	3.4
13	---	---	---	---	---	---	e0.00	0.00	7.8	3.1	0.45	3.1
14	---	---	---	---	---	---	e0.03	3.4	7.7	3.1	0.35	2.1
15	---	---	---	---	---	---	e0.23	7.8	7.6	3.0	0.32	0.28
16	---	---	---	---	---	---	e0.06	7.5	7.6	2.6	0.50	0.34
17	---	---	---	---	---	---	e0.00	7.1	7.1	2.5	0.48	0.42
18	---	---	---	---	---	---	e0.00	6.8	6.5	2.0	0.64	0.27
19	---	---	---	---	---	---	e0.00	6.4	8.0	1.6	0.71	0.24
20	---	---	---	---	---	---	e0.00	6.0	8.0	2.0	1.9	0.19
21	---	---	---	---	---	---	e0.00	6.2	7.7	4.7	2.5	0.18
22	---	---	---	---	---	---	e0.00	6.3	5.0	4.6	2.6	0.17
23	---	---	---	---	---	---	e0.00	5.8	7.3	4.4	2.6	0.25
24	---	---	---	---	---	---	e0.00	5.6	7.4	4.5	2.3	0.25
25	---	---	---	---	---	---	e0.00	5.1	8.7	4.5	2.3	0.25
26	---	---	---	---	---	---	e0.00	4.7	8.7	4.4	2.1	0.25
27	---	---	---	---	---	---	e0.00	4.3	8.6	e4.6	3.0	0.25
28	---	---	---	---	---	---	e0.00	3.8	8.5	e4.7	3.5	0.25
29	---	---	---	---	---	---	e0.02	3.5	8.4	e4.9	3.5	0.32
30	---	---	---	---	---	---	e0.03	3.3	8.3	e5.0	3.4	0.26
31	---	---	---	---	---	---	---	6.7	---	4.9	3.6	---
TOTAL	---	---	---	---	---	---	0.66	100.41	232.8	148.8	65.41	48.07
MEAN	---	---	---	---	---	---	0.022	3.239	7.760	4.800	2.110	1.602
MAX	---	---	---	---	---	---	0.23	7.8	9.6	8.3	4.9	3.5
MIN	---	---	---	---	---	---	0.00	0.00	5.0	1.6	0.21	0.17
AC-FT	---	---	---	---	---	---	1.3	199	462	295	130	95

e Estimated

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT

LOCATION.--Lat 39°42'57", long 111°17'58", in NW¹/₄SE¹/₄SW¹/₄ sec. 6, T. 13 S., R. 6 E., Sanpete County, Hydrologic Unit 14060007, on left bank 300 ft downstream from old Mammoth Dam, 5.5 mi upstream from mouth, and 7 mi west of Scofield.

DRAINAGE AREA.--16.8 mi².

PERIOD OF RECORD.--October 1930 to September 1931, May 1940 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,400 ft above NGVD of 1929, from topographic map. October 1930 to September 1931, at different datum, May 1940 to September 1954, at datum 0.50 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Transmountain diversion above station for irrigation in Sevier River basin, part of which is water diverted into Gooseberry Creek from Boulder Creek. A small reservoir on Gooseberry Creek 5 mi above station, capacity about 1,900 acre-ft is used to regulate these diversions. Flow also affected by small reservoir 1 mi above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 419 ft³/s, May 22, 1984; maximum gage height, 3.37 ft May 27, 1986; no flow Nov 11, 1964, Sep 23-26, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 114 ft³/s, May 5, gage height, 1.82 ft; minimum daily discharge, 0.46 ft³/s, Feb 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	4.3	e3.7	1.8	e0.52	e0.60	2.9	79	18	5.3	2.1	1.7
2	2.0	3.3	e3.5	e1.6	e0.50	e0.64	3.5	68	18	5.3	2.5	1.8
3	1.9	3.0	3.3	1.5	e0.52	e0.68	4.8	77	17	5.3	2.7	1.9
4	1.9	2.8	3.5	1.5	e0.50	e0.72	6.0	80	17	5.6	2.9	1.9
5	1.9	2.7	e3.4	e1.4	e0.50	e0.75	7.5	89	16	5.5	3.7	1.8
6	1.9	2.9	e3.3	1.4	e0.52	0.78	9.5	92	15	5.2	3.0	1.9
7	1.9	4.3	e3.2	1.5	e0.50	e0.72	10	88	14	4.8	2.7	2.2
8	2.0	4.5	e3.1	1.7	0.49	e0.74	10	70	13	4.3	2.4	3.5
9	2.1	3.7	3.1	1.9	0.53	e0.70	11	60	13	3.9	2.1	3.4
10	2.1	3.4	3.1	1.9	e0.50	0.65	14	58	12	3.8	2.0	2.8
11	2.1	3.3	3.2	1.8	e0.52	e0.65	15	56	12	3.9	2.0	3.7
12	2.1	3.2	3.0	1.8	e0.52	e0.60	17	52	12	3.8	1.9	5.6
13	2.1	3.1	3.0	e1.6	e0.50	0.62	19	50	11	3.6	1.7	4.7
14	2.1	2.8	2.9	e1.4	0.48	e0.70	25	52	11	3.6	1.8	3.2
15	2.1	2.7	e2.8	e1.4	e0.46	0.83	30	47	10	3.6	1.7	2.5
16	2.1	2.6	e2.7	e1.3	0.48	e0.74	28	46	10	3.9	1.7	2.9
17	2.1	2.7	2.8	e1.2	0.54	e0.78	20	46	9.6	3.9	1.7	4.8
18	2.1	2.6	2.8	e1.2	0.60	e0.84	15	45	9.3	4.9	1.7	3.9
19	2.1	2.6	2.7	e1.1	0.59	e0.84	13	42	9.1	4.6	1.7	3.4
20	2.1	2.5	2.7	e1.0	e0.58	e0.88	13	39	9.2	4.3	1.8	2.7
21	2.1	2.8	2.7	e0.90	e0.56	0.92	11	39	9.0	3.9	1.7	2.5
22	2.1	4.0	e2.5	e0.85	e0.56	1.1	12	39	7.5	4.0	1.7	2.2
23	2.2	4.4	e2.2	e0.80	e0.55	1.2	17	36	6.3	4.0	1.7	2.1
24	2.1	3.6	e1.9	e0.75	e0.55	1.4	29	32	6.1	4.3	1.6	2.2
25	2.1	4.0	e1.6	0.73	e0.56	1.3	42	27	6.1	4.3	1.5	2.1
26	2.1	3.7	e1.4	0.71	e0.55	e1.2	59	25	6.4	4.2	1.5	2.1
27	2.2	3.7	1.2	0.72	e0.54	e1.1	55	23	6.2	4.2	1.4	2.2
28	2.2	3.9	1.3	e0.70	e0.58	1.2	36	21	5.9	3.6	1.3	2.1
29	2.2	4.0	1.4	e0.65	---	1.6	44	20	5.7	3.0	1.5	2.5
30	2.4	4.0	1.8	e0.60	---	1.7	72	19	5.4	2.4	1.4	2.8
31	4.7	---	1.7	e0.55	---	2.2	---	18	---	2.2	1.6	---
TOTAL	67.3	101.1	81.5	37.96	14.80	29.38	651.2	1535	320.8	129.2	60.7	83.1
MEAN	2.171	3.370	2.629	1.225	0.529	0.948	21.71	49.52	10.69	4.168	1.958	2.770
MAX	4.7	4.5	3.7	1.9	0.60	2.2	72	92	18	5.6	3.7	5.6
MIN	1.9	2.5	1.2	0.55	0.46	0.60	2.9	18	5.4	2.2	1.3	1.7
AC-FT	133	201	162	75	29	58	1290	3040	636	256	120	165

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2002, BY WATER YEAR (WY)

	4.834	4.534	3.734	3.352	3.357	4.244	18.47	100.5	59.31	13.50	7.066	4.976
MEAN	4.834	4.534	3.734	3.352	3.357	4.244	18.47	100.5	59.31	13.50	7.066	4.976
MAX	13.5	11.6	9.00	7.83	7.37	10.6	55.4	239	239	47.9	16.7	14.1
(WY)	1983	1983	1942	1984	1984	1972	1942	1952	1983	1983	1965	1965
MIN	0.65	1.92	0.92	0.22	0.53	0.95	3.37	12.9	9.35	3.75	1.96	1.89
(WY)	1979	1991	2001	2001	2002	2002	1975	1977	1992	1977	1977	1977

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1941 - 2002

ANNUAL TOTAL	4569.90	3112.04	
ANNUAL MEAN	12.52	8.526	19.08
HIGHEST ANNUAL MEAN			40.7
LOWEST ANNUAL MEAN			4.65
HIGHEST DAILY MEAN	141	92	419
LOWEST DAILY MEAN	0.16	0.46	0.00
ANNUAL SEVEN-DAY MINIMUM	0.18	0.49	0.06
ANNUAL RUNOFF (AC-FT)	9060	6170	13820
10 PERCENT EXCEEDS	28	24	49
50 PERCENT EXCEEDS	3.1	2.7	5.0
90 PERCENT EXCEEDS	0.43	0.65	2.5

e Estimated

09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UT

LOCATION.--Lat 39°46'28", long 111°11'25", in NW¹/₄NE¹/₄SW¹/₄ sec. 18, T. 12 S., R. 7 E., Carbon County, Hydrologic Unit 14060007, on right bank 0.8 mi upstream from bridge, 1.2 mi downstream from French Creek, and 4.5 mi north of Scofield.

DRAINAGE AREA.--60.1 mi².

PERIOD OF RECORD.--June to October 1931, April to September 1932, October 1938 to current year. Published as Price River above Scofield Reservoir, near Scofield, October 1938 to September 1967.

REVISED RECORDS.--WDR UT-77-1: Drainage area. WDR UT-88-1: 1987.

GAGE.--Water-stage recorder. Elevation of gage is 7,670 ft above NGVD of 1929, from topographic map. June 1931 to September 1932, and October 1938 to July 27, 1967, at various sites about 0.5 mi downstream at different datums.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Small transmountain diversions in headwaters for irrigation in Sevier Lake basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s, May 21, 1984, gage height, 6.20 ft; minimum recorded, 0.6 ft³/s, Oct 31, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 270 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 7	0000	*190	*2.18				

Minimum daily discharge, 3.0 ft³/s, Feb 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	12	e8.2	e5.2	e3.8	e3.5	e16	135	56	12	5.5	4.0
2	6.8	8.6	e7.4	e5.4	e3.6	e3.8	e18	124	55	12	5.8	4.1
3	6.6	7.0	e6.9	e5.1	e3.6	e3.9	e19	135	52	13	6.2	4.3
4	6.7	6.6	e6.3	e5.0	e3.8	e3.8	e22	140	50	13	7.8	5.0
5	6.7	6.7	e5.6	e4.6	e3.5	e3.8	e26	153	46	12	8.7	4.9
6	6.7	6.6	e6.4	e4.5	e3.4	e4.2	e31	164	43	12	7.6	e5.2
7	6.8	8.2	e5.9	e4.2	e3.5	e5.0	e34	170	41	12	6.9	e7.0
8	6.8	10	e5.6	e4.6	e3.6	e4.5	e36	156	38	11	6.2	e10
9	9.4	7.8	e5.4	e4.7	e3.4	e4.7	e36	145	35	9.4	5.6	e9.8
10	8.9	7.5	e5.0	e4.8	e3.6	e4.2	42	139	35	9.1	5.0	8.6
11	7.6	7.3	e5.0	e4.8	e3.5	e4.4	43	133	33	9.4	4.9	10
12	8.1	7.0	e5.2	e4.6	e3.4	e4.0	46	126	32	8.9	4.3	15
13	7.5	7.0	e4.9	e4.6	e3.3	e4.3	50	122	30	7.7	4.2	14
14	7.4	7.1	e4.8	e4.2	e3.2	e4.6	62	125	29	7.2	4.0	9.7
15	7.2	6.4	e4.8	e4.0	e3.1	e5.2	67	122	28	7.2	3.9	7.9
16	7.2	e6.6	e5.0	e4.0	e3.0	e6.0	65	118	26	7.7	3.7	7.6
17	7.2	e6.2	e5.2	e3.9	e3.1	e5.7	51	116	25	8.2	3.6	12
18	7.1	e6.6	e5.3	e3.8	e3.3	e6.1	46	112	24	8.8	3.7	10
19	7.1	e6.2	e5.3	e4.0	e3.4	e6.4	38	108	23	9.6	3.6	9.2
20	7.2	e5.6	e5.0	e3.9	e3.5	e6.4	38	104	21	9.0	4.4	8.0
21	7.2	e6.0	e4.9	e3.8	e3.6	e6.9	35	102	20	7.9	4.4	6.8
22	7.2	e7.4	e5.1	e3.8	e3.6	e8.0	34	99	19	6.9	4.1	6.2
23	7.1	e7.9	e5.0	e3.9	e3.6	e9.0	42	91	17	7.4	4.0	5.7
24	7.0	e8.6	e5.1	e3.8	e3.5	e10	60	85	16	8.4	4.0	5.3
25	7.1	e7.6	e5.0	e4.0	e3.5	e12	78	77	16	8.2	3.7	5.3
26	7.5	e8.5	e4.8	e4.0	e3.6	e11	103	71	15	7.3	3.7	5.4
27	7.5	e7.8	e4.6	e4.1	e3.4	e10	109	67	15	6.7	4.1	4.9
28	7.7	e7.6	e4.4	e4.3	e3.3	e9.2	86	64	15	6.1	3.4	5.1
29	7.5	e8.1	e4.2	e4.1	---	e10	91	61	14	5.2	3.5	5.5
30	7.5	e8.3	e4.4	e3.9	---	e12	119	58	12	5.0	3.8	6.4
31	16	---	e4.5	e3.8	---	e14	---	56	---	5.3	3.9	---
TOTAL	234.9	224.8	165.2	133.4	96.7	206.6	1543	3478	881	273.6	148.2	222.9
MEAN	7.577	7.493	5.329	4.303	3.454	6.665	51.43	112.2	29.37	8.826	4.781	7.430
MAX	16	12	8.2	5.4	3.8	14	119	170	56	13	8.7	15
MIN	6.6	5.6	4.2	3.8	3.0	3.5	16	56	12	5.0	3.4	4.0
AC-FT	466	446	328	265	192	410	3060	6900	1750	543	294	442

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2002, BY WATER YEAR (WY)

MEAN	11.53	11.34	9.651	8.795	9.259	13.07	60.89	263.2	136.8	29.97	14.69	11.14
MAX	26.7	28.8	19.3	20.3	21.2	42.7	167	681	731	99.6	37.5	27.0
(WY)	1983	1983	1985	1971	1994	1986	1988	1952	1983	1983	1983	1983
MIN	5.34	6.01	5.16	3.34	3.45	5.00	11.5	23.5	14.4	6.83	4.07	3.49
(WY)	1978	1965	1962	1979	2002	1964	1975	1977	1977	1977	1977	1977

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1939 - 2002

ANNUAL TOTAL	10227.2	7608.3	
ANNUAL MEAN	28.02	20.84	48.58
HIGHEST ANNUAL MEAN			113
LOWEST ANNUAL MEAN			10.2
HIGHEST DAILY MEAN	255	170	1310
LOWEST DAILY MEAN	3.0	3.0	2.6
ANNUAL SEVEN-DAY MINIMUM	3.2	3.2	2.8
ANNUAL RUNOFF (AC-FT)	20290	15090	35190
10 PERCENT EXCEEDS	71	63	126
50 PERCENT EXCEEDS	7.6	7.1	13
90 PERCENT EXCEEDS	4.9	3.8	7.0

e Estimated

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT

LOCATION.--Lat 39°43'18", long 111°09'38", in SW¹/₄NE¹/₄ sec. 5, T. 13 S., R. 7 E., Carbon County, Hydrologic Unit 14060007, on left bank 1.3 mi upstream from mouth, 0.1 mi below Winter Quarters Canyon, 0.2 mi upstream from Scofield.

DRAINAGE AREA.--29.1 mi².

PERIOD OF RECORD.--August 1978 to September 1986. October 1990 to current year. Formerly published as "Pleasant Valley Creek below Winter Quarters Canyon, at Scofield."

GAGE.--Water-stage recorder. Elevation of gage is 7,720 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 389 ft³/s, May 21, 1984, gage height, 3.30 ft; minimum, 1.4 ft³/s, Sep 8, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jun 8	0530	*35	*2.27				

Minimum daily discharge, 16 ft³/s, Oct 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	24	21	19	19	17	24	28	24	18	19	e22
2	19	24	20	19	20	18	25	28	24	18	22	24
3	16	24	19	17	20	19	24	30	26	19	20	23
4	17	24	20	17	19	18	24	29	27	20	20	21
5	20	23	20	21	17	19	24	28	27	e20	20	23
6	20	24	21	21	18	18	23	29	30	20	20	23
7	20	22	20	21	19	19	23	29	31	21	20	24
8	20	23	22	23	17	18	24	28	33	20	20	24
9	23	23	21	20	19	19	22	27	33	20	21	22
10	20	23	21	20	18	18	25	27	32	20	20	20
11	20	22	22	20	18	18	25	26	29	20	20	21
12	21	22	20	20	18	18	24	24	26	20	20	25
13	22	22	21	20	17	19	24	22	24	21	20	22
14	22	20	21	19	19	18	24	24	18	20	19	23
15	20	20	20	19	18	20	25	24	20	20	19	23
16	20	21	20	20	18	18	26	25	22	21	20	24
17	21	21	20	19	18	20	26	25	21	21	21	25
18	22	20	20	19	18	19	25	25	21	21	21	23
19	23	20	20	19	19	19	24	25	22	21	22	24
20	22	20	19	19	17	20	24	26	22	21	22	23
21	23	21	20	20	19	19	24	29	22	21	23	23
22	21	22	18	19	19	21	24	27	19	22	21	23
23	22	20	19	18	18	23	24	25	18	21	22	23
24	21	21	19	19	18	22	25	25	19	21	21	23
25	22	21	18	19	18	22	25	24	e18	21	21	23
26	23	22	18	19	18	21	26	23	e18	21	22	24
27	23	19	18	18	18	22	26	24	e18	20	22	23
28	22	21	19	19	19	23	25	24	19	22	22	23
29	23	20	18	18	---	e22	26	24	18	20	22	24
30	22	20	19	18	---	23	26	25	18	21	22	21
31	24	---	19	19	---	23	---	25	---	20	e22	---
TOTAL	654	649	613	598	513	613	736	804	699	632	646	689
MEAN	21.10	21.63	19.77	19.29	18.32	19.77	24.53	25.94	23.30	20.39	20.84	22.97
MAX	24	24	22	23	20	23	26	30	33	22	23	25
MIN	16	19	18	17	17	17	22	22	18	18	19	20
AC-FT	1300	1290	1220	1190	1020	1220	1460	1590	1390	1250	1280	1370

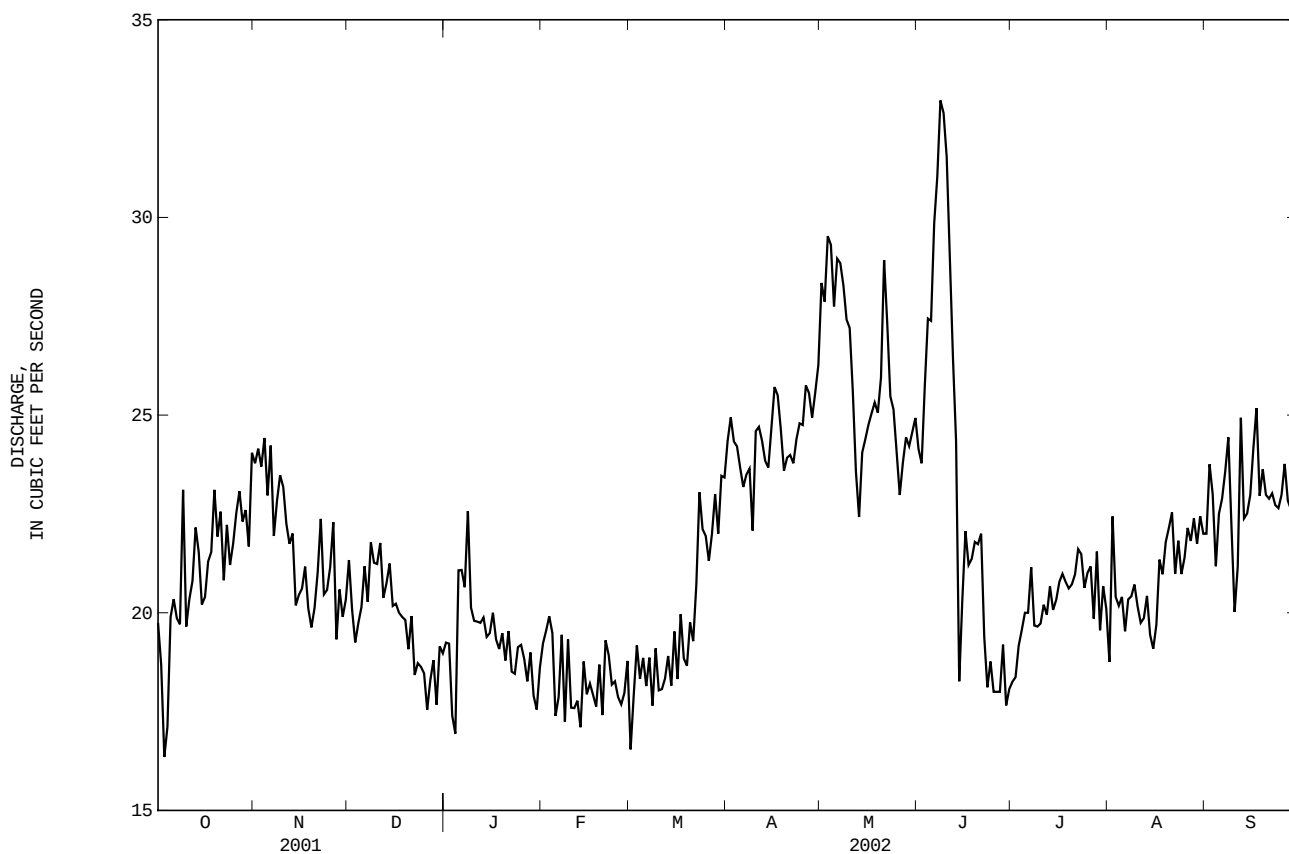
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979-86. 1991-2002, BY WATER YEAR (WY)

	8.025	7.455	6.611	6.398	6.562	8.918	17.32	54.88	45.42	13.05	8.714	9.198
MEAN	8.025	7.455	6.611	6.398	6.562	8.918	17.32	54.88	45.42	13.05	8.714	9.198
MAX	21.1	21.6	19.8	19.3	18.3	19.8	40.7	141	134	30.8	20.8	23.0
(WY)	2002	2002	2002	2002	2002	2002	1985	1984	1983	1983	2002	2002
MIN	2.73	3.35	2.80	1.95	3.00	4.27	9.00	9.19	6.34	3.43	2.91	2.03
(WY)	1979	1980	1980	1980	1979	1979	1979	1992	1994	1981	1992	1979

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1979-86, 1991-2002	
ANNUAL TOTAL	6152.2		7846		16.08	
ANNUAL MEAN	16.86		21.50		30.7	
HIGHEST ANNUAL MEAN					5.52	
LOWEST ANNUAL MEAN					300	
HIGHEST DAILY MEAN	48	May 17	33	Jun 8	1.6	May 24 1984
LOWEST DAILY MEAN	7.9	Aug 21	16	Oct 3	1.6	Sep 8 1979
ANNUAL SEVEN-DAY MINIMUM	8.8	Feb 7	18	Feb 5	1.6	Jan 11 1980
ANNUAL RUNOFF (AC-FT)	12200		15560		11650	
10 PERCENT EXCEEDS	24		25		33	
50 PERCENT EXCEEDS	16		21		8.1	
90 PERCENT EXCEEDS	9.9		18		4.0	

e Estimated



09311000 SCOFIELD RESERVOIR NEAR SCOFIELD, UT

LOCATION.--Lat 39°47'15", long 111°07'30", in NW¹/₄SE¹/₄ sec. 10, T. 12 S., R. 7 E., Carbon County, Hydrologic Unit 14060007, on right bank 200 ft upstream from face of dam on Price River and 4.7 mi northeast of Scofield.

DRAINAGE AREA.--154 mi².

PERIOD OF RECORD.--October 1941, April 1942 to current year. Fragmentary records 1926-41 in files of Office of State Engineer.

REVISED RECORDS.--WSP 1089: 1946. WDR UT-77-1: Drainage area.

GAGE.--Staff gage read twice daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to November 8, 1945, at site 800 ft upstream 200 ft from old dam at datum 4.51 ft higher.

REMARKS.--Reservoir is formed by earth and rockfill; rock-faced dam 800 ft downstream from old dam in use prior to November 8, 1945. Storage began in May 1926. Usable capacity of reservoir formed by new dam is 65,780 acre-ft between elevations 7,586.0 ft (bottom of outlet works) and 7,617.5 ft (crest of spillway). Dead storage, 8,000 acre-ft below elevation 7,586.0 ft. Figures given herein represent usable contents. Water used for irrigation in vicinity of Price.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 77,280 acre-ft, Jun 12-13, 1983; elevation, 7,621.8 ft; minimum observed, 280 acre-ft, Oct 3, 1945; elevation, 7,586.2 ft.

EXTREMES FOR CURRENT YEAR.--Maximum observed contents, 35,210 acre-ft, May 10, elevation, 7,605.7 ft; minimum observed, 8,245 acre-ft, Aug 29, elevation, 7592.3.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22280	21850	22550	23630	24460	27890	30070	33700	33060	25780	15190	8484
2	22240	21870	22550	23630	24670	27890	30140	33880	32940	25460	15130	8452
3	22180	21900	22550	23630	24670	27890	30200	34070	32800	25140	15080	8452
4	22180	21940	22550	23630	24670	28330	30270	34250	32350	24820	15020	8452
5	22180	21980	22550	23630	24670	28330	30340	34440	31890	24500	14930	8452
6	22160	22020	22550	23630	24670	28110	30410	34620	31780	24190	14650	8452
7	22160	22060	22550	23840	24690	28330	30470	34810	31670	23880	14370	8452
8	22160	22060	22550	23840	24690	28330	30540	35000	31550	23630	14130	8452
9	22140	22100	22550	23840	24690	28760	30610	35180	31440	23000	13890	8292
10	22140	22140	23170	23840	24690	28540	30790	35210	31280	22590	13650	8292
11	22120	22180	23170	23840	24690	28540	30970	35110	31100	22590	13410	8292
12	21980	22380	23170	23840	24720	27890	31150	35020	30990	21980	13170	8292
13	21770	22420	23170	23840	25100	28000	31330	34930	30880	21770	12900	8292
14	21570	22460	23170	24040	25480	28110	31530	34830	30760	21360	12530	8292
15	21160	22500	23170	24040	25860	28220	31710	34740	30580	21160	12180	8292
16	21200	22550	23170	24040	26250	28330	31890	34650	30410	20760	11820	8292
17	21240	22590	23370	24040	26630	28440	31980	34560	30200	20560	11470	8452
18	21280	22630	23370	24040	27020	28540	32070	34460	29890	20360	11120	8452
19	21320	22670	23370	24040	27410	28660	32160	34370	29580	19960	10770	8452
20	21360	22710	23370	24040	27800	28900	32260	34230	29270	19560	10430	8452
21	21400	22750	23370	24250	27890	28980	32230	34210	28960	19360	10090	8452
22	21490	22810	23370	24250	27890	29100	32480	34180	28660	18960	9759	8452
23	21980	22830	23580	24250	27890	29210	32580	34160	28350	18960	9592	8613
24	21960	22880	23580	24250	27890	29290	32670	34140	28040	18300	9262	8613
25	21940	22920	23580	24250	27890	29400	32760	34070	27740	17630	9098	8613
26	21920	22960	23580	24250	28110	29490	32870	33950	27430	16980	8936	8774
27	21900	23000	23580	24460	28110	29600	33030	33840	27130	16320	8774	8774
28	21870	23040	23580	24460	28110	29690	33190	33650	26830	15680	8725	8774
29	21850	23080	23790	24460	---	29780	33350	33470	26520	15490	8245	8774
30	21830	23170	23790	24460	---	29870	33510	33280	26100	15300	8613	8774
31	21830	---	23790	24460	---	29980	---	33170	---	15250	8548	---
MAX	22300	23200	23800	24500	28100	30000	33500	35200	33100	25800	15200	8770
MIN	21200	21800	22600	23600	24500	27900	30100	33200	26100	15200	8240	8290
(#)	7599.6	7600.2	7600.5	7600.9	7602.6	7603.4	7605.0	7604.9	7601.7	7596.3	7592.5	7592.6
(*)	-410	+1340	+620	+670	+3650	+1870	+3530	-340	-7070	-10850	-6702	+226

CAL YR 2001.....(*) -3,660
WTR YR 2002.....(*) -13,470

(#) Elevation in feet, at end of month.
(*) Change in contents, in acre-feet.

LOCATION.--Lat 39°52'33", long 111°02'12", in NE¹/₄SE¹/₄SW¹/₄ sec. 9, T. 11 S., R. 8 E., Utah County, Hydrologic Unit 14060007, 50 ft downstream from bridge on U.S. Highways 6-50, 1.5 mi downstream from Tabbyune Creek, 2.5 mi northwest of the Colton railroad siding, and 4.5 mi southeast of Soldier Summit.

PERIOD OF RECORD.--May 1967 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,230 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 962 ft³/s, May 27, 1983, gage height, 5.82 ft; no flow many days Aug and Sep 1977 and 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	1530	*39	*1.62				

No flow many days in Aug and Sep.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	4.7	e2.2	e3.7	e2.0	4.1	e18	23	11	2.5	0.12	0.00
2	2.3	3.6	e2.3	e3.2	e2.2	3.9	e20	23	11	2.7	e0.06	0.00
3	2.3	3.5	e2.3	e3.2	e2.6	3.6	e22	22	11	3.0	0.07	0.00
4	2.4	3.3	e2.2	e3.4	e2.8	e3.7	25	22	11	3.2	0.20	0.00
5	2.5	3.3	e2.3	e3.2	e3.0	e3.8	26	22	10	2.7	0.90	0.00
6	2.6	3.4	e2.7	e3.3	e3.0	3.8	26	22	9.6	2.3	1.1	0.00
7	2.8	3.8	e2.7	e3.5	e2.8	3.9	25	22	8.9	2.3	1.0	0.00
8	2.6	4.0	e2.7	e3.6	e2.9	3.2	25	22	8.1	2.0	0.82	e2.5
9	3.6	3.6	e2.6	e3.7	e3.1	2.9	24	21	7.6	1.7	0.48	e0.30
10	3.6	3.7	e2.8	e3.5	e3.0	3.1	24	21	7.8	1.3	0.30	e0.00
11	3.1	4.2	e3.3	e3.3	e2.8	3.2	24	21	7.7	1.2	0.16	e0.30
12	3.3	4.0	e3.5	e3.2	e3.0	3.3	24	20	7.0	1.0	e0.04	e0.50
13	3.2	3.9	e3.4	e3.2	e2.5	3.3	24	19	6.5	0.93	e0.03	e0.55
14	3.1	4.0	e3.3	e3.1	e2.7	3.1	25	19	6.2	0.70	e0.02	e0.60
15	2.9	3.8	e3.1	e3.1	e2.6	3.2	26	19	5.5	0.65	e0.01	e0.65
16	2.9	3.5	e2.5	e2.8	e2.9	3.3	27	18	5.4	0.61	e0.00	e1.9
17	2.9	3.4	e2.6	e2.6	e2.9	3.4	25	17	5.0	0.77	0.00	2.7
18	2.9	3.5	e2.5	e2.9	e2.9	3.4	23	17	4.7	1.0	0.00	2.3
19	2.8	3.5	e2.8	e2.8	e3.9	3.5	22	16	4.3	1.2	0.00	2.0
20	2.9	e3.4	e2.6	e2.6	e3.8	3.5	21	16	4.4	1.2	0.00	1.6
21	3.0	e3.3	e2.8	e2.8	e4.2	3.9	20	16	4.6	1.2	0.00	1.3
22	3.0	e3.2	e3.1	e3.0	e4.2	e4.2	20	17	4.3	0.80	0.00	1.0
23	3.0	e3.0	e2.9	e2.8	e4.5	e4.6	20	16	4.0	0.68	0.00	0.96
24	3.0	e3.2	e2.6	e2.6	e4.6	4.8	20	15	3.7	1.1	0.00	0.94
25	3.0	e3.0	e2.6	e2.6	e4.5	4.9	22	15	3.3	1.7	0.00	0.97
26	2.8	e2.7	e2.6	e2.6	4.3	e5.8	23	14	3.2	1.7	0.00	0.98
27	3.0	e2.5	e2.8	e2.9	4.1	e7.0	25	13	3.2	1.4	0.00	1.1
28	3.1	e2.3	e3.2	e2.5	4.2	e8.0	25	13	3.1	0.93	0.00	1.1
29	3.2	e2.2	e3.4	e2.2	---	e10	23	12	3.1	0.62	0.00	1.2
30	3.3	e2.2	e3.7	e2.2	---	e12	23	12	2.8	0.33	0.00	1.5
31	6.0	---	e3.6	e2.2	---	e15	---	11	---	0.23	0.00	---
TOTAL	93.6	101.7	87.7	92.3	92.6	149.4	697	556	188.0	43.65	5.31	26.95
MEAN	3.019	3.390	2.829	2.977	3.307	4.819	23.23	17.94	6.267	1.408	0.171	0.898
MAX	6.0	4.7	3.7	3.7	4.8	15	27	23	11	3.2	1.1	2.7
MIN	2.3	2.2	2.2	2.2	2.0	2.9	18	11	2.8	0.23	0.00	0.00
AC-FT	186	202	174	183	184	296	1380	1100	373	87	11	53

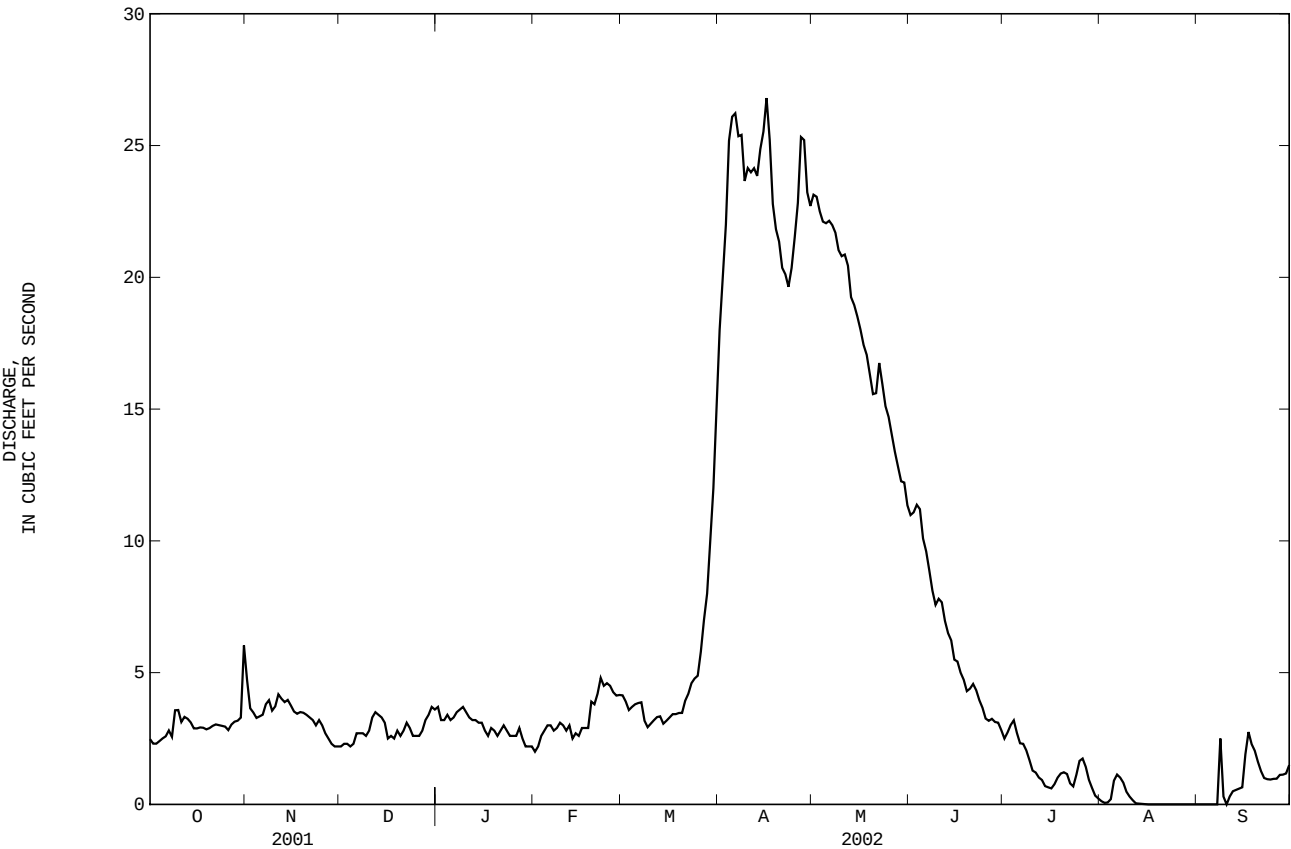
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

MEAN	5.653	5.230	4.354	4.009	4.785	13.21	61.21	149.4	52.13	14.74	6.891	4.875
MAX	11.9	9.91	8.16	7.68	20.3	55.0	169	416	209	41.2	22.8	11.7
(WY)	1985	1983	1984	1984	1986	1986	1986	1984	1983	1983	1983	1980
MIN	1.60	2.06	1.46	0.64	1.90	2.73	5.68	4.37	1.95	0.48	0.016	0.12
(WY)	1978	1991	1977	1977	1969	1991	1977	1977	1977	1977	1977	1977

09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1968 - 2002		
ANNUAL TOTAL	4519.8			2134.21			27.34		
ANNUAL MEAN	12.38			5.847			61.9		
HIGHEST ANNUAL MEAN							2.21		
LOWEST ANNUAL MEAN							927		
HIGHEST DAILY MEAN	91	May	2	27	Apr	16	May	27	1983
LOWEST DAILY MEAN	1.8	Sep	6	0.00	Aug	16	0.00	Aug	6 1977
ANNUAL SEVEN-DAY MINIMUM	2.0	Sep	5	0.00	Aug	16	0.00	Aug	6 1977
ANNUAL RUNOFF (AC-FT)	8970			4230			19810		
10 PERCENT EXCEEDS	34			20			67		
50 PERCENT EXCEEDS	3.8			3.1			6.4		
90 PERCENT EXCEEDS	2.4			0.30			2.4		

e Estimated



09313000 PRICE RIVER NEAR HEINER, UT

LOCATION.--Lat 39°43'08", long 110°51'55", in SW¹/₄SE¹/₄SW¹/₄, sec. 1, T. 13 S., R. 9 E., Carbon County, Hydrologic Unit 14060007, on left bank 0.7 mi north of Heiner and 0.8 mi downstream from Willow Creek.

DRAINAGE AREA.--455 mi².

PERIOD OF RECORD.--June 1934 to September 1969, October 1979 to September 1981, October 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,000 ft above NGVD of 1929, from topographic map. Prior to September 1969 at present site at datum 2.00 ft lower. October 1979 to September 1981 a water-stage recorder at site 400 ft downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow affected by regulation of Scofield Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,340 ft³/s, Sep 13, 1940, gage height, 7.98 ft, from rating curve extended above 750 ft³/s, on basis of slope-area measurements of peak flow; minimum recorded, 0.4 ft³/s, Aug 21, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 470 ft³/s, Sep 16, gage height, 5.70 ft; minimum daily discharge, 3.4 ft³/s, Feb 11.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	36	e16	e14	e3.9	e6.0	23	85	131	166	137	36
2	38	34	e15	e12	e4.2	e5.8	27	110	135	165	144	31
3	32	35	e15	e10	e4.5	e7.0	29	111	138	165	147	29
4	31	32	e14	e10	e4.7	e8.0	30	119	135	169	148	30
5	29	30	e13	e10	e4.7	e9.0	31	139	134	171	144	29
6	30	30	e12	e11	e4.7	e10	30	142	141	170	134	33
7	33	e29	e12	e12	e4.3	e11	29	142	140	170	136	38
8	31	e29	e13	e12	e4.0	e12	28	147	140	167	142	e63
9	34	e28	e13	e12	e3.8	e11	27	176	141	169	140	e50
10	34	e28	e13	e11	e3.6	e13	26	176	131	168	141	e47
11	34	e27	e13	e10	e3.4	e14	26	177	128	161	142	e44
12	29	e26	e15	e9.4	e3.5	e15	41	178	118	158	139	e40
13	32	e25	e14	e9.0	e3.7	e17	51	170	115	150	139	39
14	33	24	e14	e8.6	e3.9	e16	66	149	115	152	140	34
15	32	24	e14	e8.6	e3.8	e16	68	128	114	150	138	35
16	33	22	e13	e8.0	e3.8	e16	71	127	120	152	151	59
17	32	23	e11	e7.2	e4.0	e17	70	160	119	153	154	e45
18	32	23	e11	e7.6	e4.5	e17	69	161	135	148	155	e34
19	31	22	e13	e7.0	e5.0	e17	68	162	135	147	152	29
20	32	21	e14	e6.7	e5.0	e16	67	158	142	142	155	25
21	31	e20	e14	e7.0	e5.6	e15	67	161	144	142	154	25
22	33	e20	e14	e7.2	e6.3	e18	44	163	144	139	153	25
23	33	e18	e13	e6.0	e6.0	e16	20	163	149	127	133	25
24	31	e18	e12	e6.0	e5.8	e15	18	162	156	127	128	23
25	32	e18	e12	e5.4	e5.8	e14	59	158	156	129	50	26
26	32	e17	e12	e5.4	e5.4	e14	78	157	157	132	65	25
27	32	e16	e13	e5.7	e5.4	13	87	155	155	126	66	25
28	32	e16	e14	e5.1	e6.2	16	88	148	166	125	49	23
29	32	e15	e14	e4.6	---	16	83	147	166	121	43	27
30	32	e15	e13	e4.2	---	19	79	146	166	120	37	26
31	37	---	e14	e4.2	---	21	---	134	---	130	34	---
TOTAL	1011	721	413	256.9	129.5	430.8	1500	4611	4166	4611	3790	1020
MEAN	32.61	24.03	13.32	8.287	4.625	13.90	50.00	148.7	138.9	148.7	122.3	34.00
MAX	42	36	16	14	6.3	21	88	178	166	171	155	63
MIN	29	15	11	4.2	3.4	5.8	18	85	114	120	34	23
AC-FT	2010	1430	819	510	257	854	2980	9150	8260	9150	7520	2020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935-69, 1980-81, 1991-2002, BY WATER YEAR (WY)

	MEAN	46.20	18.57	12.50	10.21	13.57	42.18	156.3	333.8	253.5	192.3	133.8	88.02
MAX	153	90.7	30.1	18.4	33.1	181	523	1538	913	321	260	178	
(WY)	1998	1938	1966	1953	1996	1969	1952	1952	1952	1995	1995	1968	
MIN	3.84	3.23	4.00	4.00	4.62	7.96	29.0	80.2	52.3	28.1	12.6	6.39	
(WY)	1935	1935	1935	1935	2002	1991	1961	1961	1961	1961	1992	1992	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1935-69, 1980-81, 1991-2002

ANNUAL TOTAL	28358.7	22660.2											
ANNUAL MEAN	77.70	62.08											
HIGHEST ANNUAL MEAN										108.9			
LOWEST ANNUAL MEAN										310			1952
HIGHEST DAILY MEAN										25.3			1961
LOWEST DAILY MEAN										2040			Apr 28 1952
ANNUAL SEVEN-DAY MINIMUM										0.90			Aug 18 1961
ANNUAL RUNOFF (AC-FT)										2.4			Nov 7 1934
10 PERCENT EXCEEDS										56250			
50 PERCENT EXCEEDS										44950			
90 PERCENT EXCEEDS										78890			
										175			
										155			
										31			
										8.6			
										6.0			
										8.0			

e Estimated

09314500 PRICE RIVER AT WOODSIDE, UT

LOCATION.--Lat 39°15'50", long 110°20'45", in SW¹/₄SE¹/₄SE¹/₄, sec. 9, T. 18 S., R. 14 E., Emery County, Hydrologic Unit 14060007, on left downstream wingwall of old highway bridge, 200 ft downstream from railroad bridge at Woodside, and 16.3 mi upstream from mouth.

DRAINAGE AREA.--1,540 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1909 to December 1910, January to August 1911 (gage heights only), November 1945 to September 1992, and July 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,600 ft above NGVD of 1929, by barometer. September 1909 to August 1911, reference point at site about 100 ft upstream at different datum. November 27, 1945 to October 16, 1954, water-stage recorder at site 15 ft downstream at datum 1.85 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 18,000 acres. Flow affected by storage in Scofield Reservoir, usable capacity, 65,780 acre-ft, since 1926 (see station 09311000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,200 ft³/s, Sep 7, 1991, gage height, 13.49 ft, from rating curve extended above 6,840 ft³/s; no flow at times in 1960, 1961, 1963, 1992, and 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 26	0045	2,280	11.12	Sep 13	unknown	*4,760	*12.98

No flow Jul 17.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	33	e21	e14	e12	e26	28	21	21	5.6	4.4	8.9
2	13	33	e19	e14	e13	e28	26	19	22	6.7	3.5	8.1
3	11	38	e16	e12	e13	e26	25	18	23	6.5	4.2	7.2
4	11	33	e15	e13	e14	e31	23	20	21	6.1	57	3.8
5	9.6	34	e14	e12	e14	e35	21	19	18	3.4	47	2.3
6	9.5	34	e15	e13	e15	e39	23	17	20	1.8	19	6.2
7	11	33	e14	e14	e15	e40	22	18	16	5.3	20	71
8	15	32	e13	e16	e16	e39	20	17	14	6.1	16	172
9	17	32	e13	e17	e16	e38	18	17	13	3.8	14	238
10	15	35	e14	e18	e15	e40	18	17	11	2.6	14	329
11	16	36	e13	e16	e18	e41	17	21	7.9	2.1	15	342
12	18	38	e12	e15	e20	e42	17	27	8.5	1.3	11	e250
13	19	40	e11	e13	e21	45	17	29	5.6	0.29	9.8	e600
14	17	38	e12	e14	e21	41	17	28	6.2	0.10	9.3	e500
15	16	40	e13	e12	e18	43	18	25	4.9	0.02	9.1	e300
16	16	37	e12	e12	e20	40	20	24	1.9	0.01	9.0	e200
17	17	34	e11	e11	e23	40	26	22	1.2	0.00	5.0	e350
18	16	35	e11	e10	e24	34	28	19	0.89	6.8	5.8	e250
19	18	34	e12	e11	e23	30	27	20	e0.20	7.5	4.6	e90
20	18	35	e10	e12	e24	29	26	28	e0.25	10	3.2	e70
21	18	38	e9.6	e13	e26	31	24	31	e0.18	11	61	e55
22	20	33	e9.4	e13	e28	31	24	30	6.3	8.9	180	e50
23	22	36	e9.2	e12	e28	33	25	29	5.1	8.1	30	e42
24	27	42	e9.0	e11	e26	38	21	33	5.4	8.2	22	e40
25	30	40	e9.2	e12	e25	41	20	31	8.4	26	17	e36
26	32	39	e10	e10	e24	38	18	34	7.6	214	13	e30
27	35	30	e11	e12	e23	34	19	32	6.4	91	16	e28
28	33	e28	e12	e14	e24	33	21	31	5.1	31	9.9	e30
29	32	e25	e12	e14	---	32	27	29	5.9	15	28	e200
30	32	e24	e12	e13	---	30	27	26	6.5	9.8	45	e90
31	34	---	e13	e12	---	28	---	22	---	6.7	12	---
TOTAL	611.1	1039	387.4	405	559	1096	663	754	273.42	505.72	714.8	4399.5
MEAN	19.71	34.63	12.50	13.06	19.96	35.35	22.10	24.32	9.114	16.31	23.06	146.7
MAX	35	42	21	18	28	45	28	34	23	214	180	600
MIN	9.5	24	9.0	10	12	26	17	17	0.18	0.00	3.2	2.3
AC-FT	1210	2060	768	803	1110	2170	1320	1500	542	1000	1420	8730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947-92, 2000-2002, BY WATER YEAR (WY)

	1947-92	2000-2002	1947-92	2000-2002	1947-92	2000-2002	1947-92	2000-2002	1947-92	2000-2002	1947-92	2000-2002
MEAN	91.72	65.13	41.28	34.68	60.04	114.7	179.1	284.5	222.0	98.19	111.4	109.4
MAX	399	337	101	80.0	227	375	768	1762	2023	427	478	494
(WY)	1984	1958	1967	1986	1983	1979	1986	1952	1983	1983	1957	1991
MIN	18.3	17.9	12.2	10.7	18.0	25.6	15.0	5.26	1.51	4.21	8.61	5.72
(WY)	1965	1991	1978	1961	1964	1961	1961	1961	1961	1960	1990	1992

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

SUMMARY STATISTICS

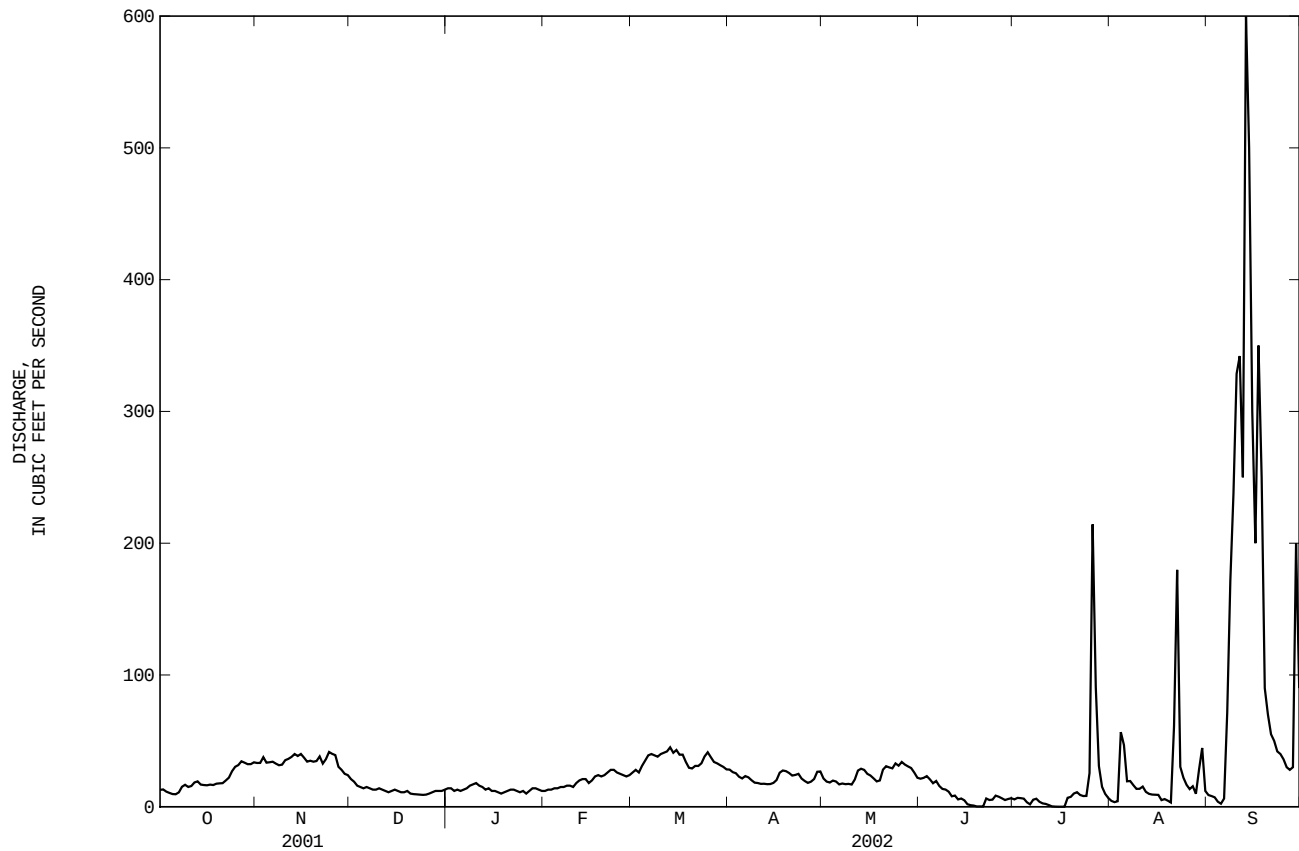
FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1947-92, 2000-2002

ANNUAL TOTAL	17825.5		11407.94		118.1	
ANNUAL MEAN	48.84		31.25		479	1983
HIGHEST ANNUAL MEAN					25.9	1990
LOWEST ANNUAL MEAN					6180	Sep 7 1991
HIGHEST DAILY MEAN	388	Aug 5	600	Sep 13		
LOWEST DAILY MEAN	9.0	Sep 27	0.00	Jul 17	0.00	Jul 21 1960
ANNUAL SEVEN-DAY MINIMUM	9.5	Dec 20	0.55	Jul 11	0.00	Jul 21 1960
ANNUAL RUNOFF (AC-FT)	35360		22630		85550	
10 PERCENT EXCEEDS	101		40		238	
50 PERCENT EXCEEDS	35		18		51	
90 PERCENT EXCEEDS	13		6.2		17	

e Estimated



GREEN RIVER BASIN

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1946 TO September 1949, February 1951 to September 1988, November 1991 to June 1993, March 1995 to September 1997, and November 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 1951 to September 30, 1978.

WATER TEMPERATURE: February 1951 to September 1959, November 1961 to September 1963, October 1964 to September 30, 1978, November 2000 to current year.

INSTRUMENTATION.--Water temperature probe.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 8,540 microsiemens, Dec 11, 1951; minimum daily, 814 microsiemens, Jun 1, 1952.

WATER TEMPERATURE: Maximum, 34.1°C, Jul 11, 2002; minimum, -0.4°C, Nov 17, 18, 19, 2000.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 34.1°C, Jul 11; minimum, 0.0°C, many days during the winter months.

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
2	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
3	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
4	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
5	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
6	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
7	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
8	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
9	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
10	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
11	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
12	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
13	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
14	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
15	---	---	---	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
16	---	---	---	7.1	3.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
17	---	---	---	6.5	2.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0
18	---	---	---	5.9	2.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0
19	---	---	---	6.1	2.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0
20	---	---	---	5.0	1.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0
21	---	---	---	4.9	1.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
22	---	---	---	4.6	3.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
23	---	---	---	5.5	2.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
24	---	---	---	2.5	0.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0
25	---	---	---	2.6	0.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
26	---	---	---	2.2	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
27	---	---	---	1.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
28	---	---	---	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	---	---	---	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	---	---	---	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	---	---	---	---	---	---	0.0	0.0	0.0	0.1	0.0	0.0
MONTH	---	---	---	---	---	---	0.0	0.0	0.0	0.1	0.0	0.0

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	0.1	0.0	0.0	0.0	0.0	0.0	18.0	8.7	13.1	20.1	10.8	15.0
2	0.0	0.0	0.0	0.0	0.0	0.0	18.7	10.2	14.0	20.4	9.6	14.7
3	0.0	0.0	0.0	0.0	0.0	0.0	17.7	9.6	13.4	18.2	10.1	14.5
4	0.0	0.0	0.0	0.0	0.0	0.0	19.1	9.4	14.0	20.4	11.5	16.0
5	0.0	0.0	0.0	0.0	0.0	0.0	19.3	10.7	14.7	20.6	11.9	16.3
6	0.0	0.0	0.0	0.0	0.0	0.0	17.5	11.5	14.3	22.2	11.2	16.5
7	0.0	0.0	0.0	0.1	0.0	0.0	18.7	10.6	14.1	20.4	12.7	16.4
8	0.0	0.0	0.0	0.1	0.0	0.0	17.8	9.2	13.4	18.4	8.5	13.6
9	0.0	0.0	0.0	0.0	0.0	0.0	18.6	9.5	13.8	19.4	8.2	13.7
10	0.0	0.0	0.0	0.1	0.0	0.0	14.8	11.9	13.5	16.4	10.5	13.4
11	0.0	0.0	0.0	1.8	0.0	0.6	18.1	9.0	13.4	18.7	9.5	13.8
12	0.0	0.0	0.0	2.9	0.6	1.5	16.8	10.7	13.4	21.8	11.5	16.2
13	0.0	0.0	0.0	4.9	2.6	3.6	20.2	9.5	14.6	22.7	12.4	17.3
14	0.0	0.0	0.0	4.1	0.7	2.4	17.6	10.8	14.4	22.0	14.7	18.1
15	0.0	0.0	0.0	5.7	0.0	2.4	14.2	10.8	11.8	22.5	14.4	18.3
16	0.0	0.0	0.0	3.8	0.7	2.2	17.1	8.0	12.1	22.6	16.0	18.7
17	0.0	0.0	0.0	5.3	1.1	2.8	14.9	8.9	11.7	24.1	13.6	18.7
18	0.0	0.0	0.0	8.1	0.3	3.9	15.7	8.9	11.9	23.7	14.6	19.2
19	0.0	0.0	0.0	9.5	0.7	4.8	15.4	8.1	11.6	24.2	13.8	18.9
20	0.0	0.0	0.0	11.4	2.8	6.7	11.8	7.7	10.1	22.4	15.8	18.8
21	0.0	0.0	0.0	11.8	4.2	7.7	16.4	5.4	10.6	18.2	13.2	15.6
22	0.0	0.0	0.0	13.5	5.4	9.1	18.5	7.2	12.6	16.9	10.3	13.6
23	0.0	0.0	0.0	12.9	8.0	9.8	19.5	9.2	14.1	17.2	10.8	13.5
24	0.0	0.0	0.0	12.0	6.0	8.7	20.1	10.2	14.9	21.9	10.6	15.8
25	0.0	0.0	0.0	12.5	6.5	9.1	18.0	12.0	15.0	23.3	12.6	17.7
26	0.0	0.0	0.0	12.6	5.3	8.9	20.3	11.3	15.4	24.1	13.9	18.9
27	0.0	0.0	0.0	14.4	7.0	10.2	15.0	10.9	12.8	24.7	14.9	19.7
28	0.0	0.0	0.0	15.4	6.9	10.8	19.1	8.7	13.6	25.7	15.5	20.4
29	---	---	---	15.6	7.9	11.3	20.1	9.9	14.5	26.5	16.2	21.2
30	---	---	---	15.8	8.0	11.4	20.2	10.7	15.1	28.7	17.3	22.7
31	---	---	---	17.2	8.0	12.3	---	---	---	28.5	17.9	23.0
MONTH	0.1	0.0	0.0	17.2	0.0	4.5	20.3	5.4	13.4	28.7	8.2	17.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	22.6	19.2	20.8	30.3	19.1	24.8	30.0	21.8	25.4	23.8	15.9	19.6
2	22.5	15.3	18.7	29.9	20.1	24.8	24.4	20.8	22.4	25.1	15.7	20.5
3	21.3	15.8	18.1	26.1	21.9	23.6	28.9	18.9	22.8	22.2	17.3	19.6
4	25.0	14.4	19.2	27.5	18.8	22.9	27.4	19.2	22.9	24.9	15.4	19.8
5	26.7	15.5	20.9	30.8	19.6	24.5	24.5	20.2	22.1	25.4	17.5	20.9
6	27.2	17.0	22.0	30.6	19.8	24.8	25.5	19.3	22.2	20.9	18.2	19.5
7	25.5	17.3	21.5	31.3	20.8	25.8	27.0	20.4	23.2	21.2	16.6	18.3
8	23.7	16.7	19.9	32.3	21.8	26.8	28.2	18.6	23.0	18.0	10.9	16.3
9	23.2	14.4	18.3	33.6	21.7	27.4	27.1	17.5	22.3	18.4	14.4	16.1
10	24.1	11.6	17.7	33.3	22.8	27.5	27.4	16.9	22.3	19.0	16.0	17.5
11	25.6	13.6	19.5	34.1	22.4	27.6	27.8	17.6	22.7	19.1	16.8	18.2
12	26.9	14.7	20.8	33.3	21.0	26.9	26.8	17.5	22.1	---	---	---
13	28.4	16.0	22.0	32.0	19.4	25.8	27.1	17.2	22.1	---	---	---
14	28.6	17.5	23.1	34.0	20.2	26.1	27.4	17.5	22.6	---	---	---
15	28.6	17.8	22.9	33.4	20.5	25.2	27.7	17.0	22.5	---	---	---
16	30.0	17.4	23.2	33.6	19.7	25.4	27.6	17.7	22.8	---	---	---
17	29.7	16.7	22.8	33.2	19.9	25.4	27.4	18.3	22.9	---	---	---
18	29.1	16.7	22.8	29.5	19.7	24.6	26.8	19.1	22.9	---	---	---
19	30.6	17.8	23.0	29.8	21.0	25.1	27.6	19.7	23.1	---	---	---
20	29.1	17.1	22.2	28.9	22.1	24.8	25.2	20.0	22.0	---	---	---
21	25.2	16.2	20.4	30.2	19.5	24.5	25.3	18.4	21.5	---	---	---
22	27.2	17.8	22.2	30.5	19.9	25.0	21.4	14.8	17.6	---	---	---
23	29.1	16.9	22.7	29.8	22.4	26.0	21.7	16.0	18.6	---	---	---
24	28.7	17.7	23.3	31.5	20.8	25.8	23.1	14.9	18.8	---	---	---
25	29.2	18.1	23.8	31.6	17.2	26.6	23.7	14.9	19.3	---	---	---
26	28.7	18.2	23.5	24.3	15.8	20.5	23.9	15.1	19.6	---	---	---
27	28.9	18.7	23.7	25.3	18.8	21.6	23.6	16.2	20.1	---	---	---
28	28.7	18.5	23.6	25.8	17.1	21.3	23.9	16.4	20.0	---	---	---
29	28.4	18.0	23.3	28.6	17.7	23.1	22.4	15.6	19.0	---	---	---
30	29.7	18.4	24.0	29.6	19.4	24.5	21.5	16.2	18.5	---	---	---
31	---	---	---	29.9	20.4	25.2	21.5	15.0	18.3	---	---	---
MONTH	30.6	11.6	21.7	34.1	15.8	25.0	30.0	14.8	21.5	---	---	---

09315000 GREEN RIVER AT GREEN RIVER, UT

LOCATION.--Lat 38°59'10", long 110°09'02", in NW¹/₄NW¹/₄SW¹/₄ sec. 15, T. 21 S., R. 16 E., Emery County, Hydrologic Unit 14060008, on right bank 1,400 ft upstream from railroad bridge, .9 mi southeast of town of Green River, 22.7 mi upstream from San Rafael River, at mile 117.6 upstream from mouth.

DRAINAGE AREA.--44,850 mi² approximately, of which about 4,260 mi² (including 3,959 mi² in Great Divide Basin in southern Wyoming) is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1894 to October 1899, October 1904 to current year. Published as "at Blake" 1894-99, as "near Elgin" 1911, and as "at Little Valley, near Green River" 1910-23.

REVISED RECORDS.--WSP 918: 1895-1900. WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,040.18 ft above NGVD of 1929. Prior to November 6, 1914, staff, wire-weight, or chain gages at several sites within 7 mi of present site at various datums. November 6, 1914 to June 20, 1924, water-stage recorder at site 7 mi downstream at different datum. June 21 to September 18, 1924, chain gage, and September 19, 1924 to May 7, 1947, water-stage recorder at site 100 ft downstream at present datum. May 8, 1947 to September 7, 1994, water-stage recorder at site 900 ft downstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234400) since November 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft³/s, Jun 27, 1917, gage height, 14.53 ft, site and datum then in use; minimum, 255 ft³/s, Nov 26, 1931; minimum gage height, 4.08 ft, Aug 1, Dec 5, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 17,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 26	1415	*7,670	*8.09				

Minimum discharge, 651 ft³/s, Jul 28, Aug 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1230	1660	1860	e1650	e1560	2000	2900	3450	5610	1190	802	705
2	1210	1670	1870	e1600	e1580	e2060	2850	3700	5590	1170	800	937
3	1200	1680	1740	e1640	e1570	e2100	2840	3960	5290	1120	801	962
4	1180	1670	1750	e1640	e1560	e2150	2930	3840	5140	1100	773	829
5	1160	1670	1800	e1610	e1590	e2040	3020	3530	5530	1050	817	784
6	1140	1690	1700	e1610	e1570	1930	2950	3670	5480	1040	806	756
7	1130	1700	1680	e1650	e1590	1840	2960	3930	4980	1020	796	1290
8	1140	1720	1740	e1680	e1650	2000	3150	3690	4700	1010	803	1530
9	1460	1750	1900	e1750	e1720	2120	3130	3510	4590	963	802	2260
10	1240	1760	1900	e1690	e1670	2290	2970	3510	4210	933	821	1260
11	1240	1750	1460	e1620	e1600	e2400	2970	3650	3800	913	812	1150
12	1410	1760	1160	e1590	e1560	e2300	3110	3900	3610	896	797	2130
13	1600	1770	1020	e1570	e1560	e2230	3170	4360	3430	852	790	2580
14	1640	1760	996	e1500	e1680	e2200	3210	4220	3320	834	768	1640
15	1590	1740	1080	e1500	e1670	e2170	3290	3650	3170	802	757	2000
16	1550	1760	1260	e1500	e1660	e2240	3390	3230	2910	787	765	2150
17	1570	1780	1350	e1450	1650	e2330	3700	3010	2600	764	757	2450
18	1620	1790	1270	e1450	1660	e2410	3500	2990	2370	764	e730	2110
19	1640	1780	1360	e1450	1630	e2500	3400	2960	2170	750	e700	1560
20	1640	1770	1480	e1500	1610	2690	3670	3220	2030	753	682	1410
21	1650	1780	1390	e1600	1660	2630	4160	3420	1920	760	688	1400
22	1650	1780	e1340	e1600	1710	2600	4310	3510	1810	743	885	1330
23	1660	1780	e1340	e1600	1760	2530	3920	3930	1650	731	814	1260
24	1630	1800	e1200	e1530	1780	e2400	3630	5820	1590	734	739	1280
25	1610	1900	e1270	e1520	1830	e2200	3500	7120	1480	720	769	1230
26	1580	1940	e1270	e1570	e1870	2350	3440	7570	1420	1010	724	1210
27	1600	1940	e1300	e1580	e1920	2520	3460	7470	1330	869	718	1150
28	1650	1930	e1370	e1680	e1970	2650	3340	7040	1300	785	699	1150
29	1650	1870	e1430	e1750	---	2720	3100	6630	1250	810	683	1660
30	1650	1860	e1550	e1700	---	3010	3160	6310	1220	820	706	2010
31	1650	---	e1600	e1600	---	3040	---	5870	---	852	721	---
TOTAL	45570	53210	45436	49380	46840	72650	99130	136670	95500	27545	23725	44173
MEAN	1470	1774	1466	1593	1673	2344	3304	4409	3183	888.5	765.3	1472
MAX	1660	1940	1900	1750	1970	3040	4310	7570	5610	1190	885	2580
MIN	1130	1660	996	1450	1560	1840	2840	2960	1220	720	682	705
AC-FT	90390	105500	90120	97950	92910	144100	196600	271100	189400	54640	47060	87620

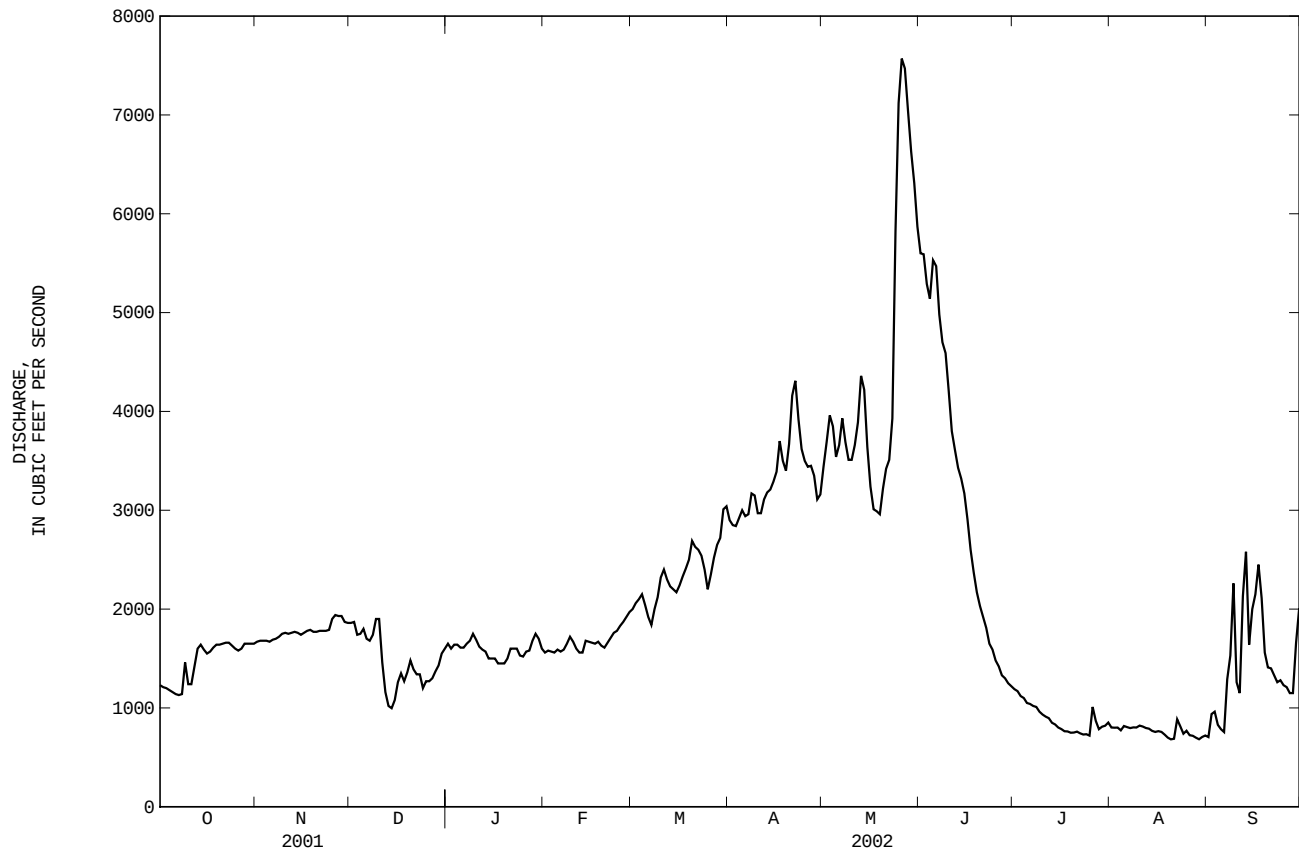
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 2002, BY WATER YEAR (WY)

MEAN	3059	2939	2418	2368	2890	4631	7343	15370	18550	7766	3655	2848
MAX	7701	6490	5894	5739	7258	11430	18370	33940	46650	31630	11220	9960
(WY)	1983	1987	1987	1985	1962	1910	1962	1952	1921	1907	1907	1909
MIN	718	935	801	1000	1509	1617	2591	4212	2128	645	712	603
(WY)	1935	1935	1909	1910	1935	1963	1963	1990	1934	1934	1934	1934

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1906 - 2002	
ANNUAL TOTAL	1192326		739829		6159	
ANNUAL MEAN	3267		2027		12280	
HIGHEST ANNUAL MEAN					1805	
LOWEST ANNUAL MEAN					1805	
HIGHEST DAILY MEAN	18500	May 21	7570	May 26	66700	Jun 27 1917
LOWEST DAILY MEAN	996	Dec 14	682	Aug 20	380	Dec 5 1934
ANNUAL SEVEN-DAY MINIMUM	1020	Sep 6	708	Aug 26	419	Jul 30 1934
ANNUAL RUNOFF (AC-FT)	2365000		1467000		4462000	
10 PERCENT EXCEEDS	7710		3640		15000	
50 PERCENT EXCEEDS	1800		1660		3500	
90 PERCENT EXCEEDS	1210		802		1530	

e Estimated



09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER-QUALITY RECORDS

LOCATION.--Daily samples collected at gage site.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1941 to September 1981, March 1982 to current year.

WATER TEMPERATURE: May 1949 to September 1959, October 1964 to September 1981, March 1982 to current year.

SUSPENDED-SEDIMENT DISCHARGE: May 1930 to September 1984.

INSTRUMENTATION.--Water-quality monitor April 1985 to September 1989.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 3,250 microsiemens, Dec 1, 1967; minimum daily, 255 microsiemens, Jun 30, 1978.

WATER TEMPERATURE: Maximum, 30.0°C, Aug 13, 1958, Jul 5, 6, 8, 12, Aug 5, 2001, Jul 9, 14, 2002; minimum, 0.0°C, on many days during winter period each year.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 66,000 mg/L, Jul 11, 1936; minimum daily, 19 mg/L, Sep 30, 1974.

SEDIMENT LOADS: Maximum daily, 2,230,000 tons, Jul 11, 1936; minimum daily, 54 tons, Sep 27, 1956.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum observed, 1,280 microsiemens, Sep 12; minimum observed, 410 microsiemens, Jun 11.

WATER TEMPERATURE: Maximum observed, 30.0°C, Jul 9, 14; minimum observed, 0.0°C, several days in Dec, Jan 3, 27.

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

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	GAGE HEIGHT (FEET) (00065)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
NOV								
14...	0930	1710	8.2	890	4.5	9.0	5.87	574
MAR								
25...	0845	2160	8.4	910	6.0	8.5	6.06	613
MAY								
15...	0800	3660	8.4	530	16.0	17.0	6.78	329
JUN								
21...	1000	1950	8.3	510	28.0	23.0	6.03	316
JUL								
23...	0900	709	8.4	800	29.0	25.0	5.16	495
SEP								
03...	0830	980	8.2	980	22.0	18.0	5.32	612

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	810	850	840	---	960	860	800	620	620	700	830	920
2	---	840	830	---	---	790	800	---	620	710	830	870
3	---	840	860	860	880	780	800	590	600	740	850	860
4	800	850	960	860	850	760	820	560	600	720	860	---
5	810	840	1070	870	850	760	840	---	540	740	840	850
6	800	850	970	860	840	780	840	540	510	750	900	840
7	800	850	930	830	850	800	830	510	480	750	890	---
8	820	850	890	830	870	790	850	510	---	760	870	---
9	1230	850	890	840	880	790	810	520	440	710	870	1220
10	860	830	---	840	870	780	790	510	420	760	850	---
11	820	850	890	860	880	780	800	510	410	740	850	1020
12	820	840	---	840	860	780	---	500	415	760	860	1280
13	820	840	950	870	850	750	830	500	430	780	870	1250
14	830	840	---	840	840	770	810	500	450	750	880	930
15	820	850	---	870	830	770	780	480	470	780	860	880
16	820	840	---	850	830	790	760	490	470	780	850	900
17	860	840	---	840	830	780	730	490	480	800	840	830
18	840	860	---	850	830	740	700	490	480	790	860	---
19	820	840	---	850	830	790	680	500	500	---	840	980
20	---	840	---	880	840	770	680	510	---	---	850	1040
21	880	840	---	880	820	800	680	520	520	800	850	1040
22	860	---	1080	850	820	810	640	520	540	810	850	980
23	870	---	---	890	---	840	610	500	560	810	---	950
24	870	850	990	880	810	850	580	470	---	820	1000	990
25	850	860	970	910	800	860	---	510	620	830	930	970
26	870	860	980	870	790	860	570	560	630	840	890	970
27	860	820	950	850	780	860	570	540	650	1510	900	1000
28	880	830	960	890	770	---	570	530	670	970	---	970
29	860	800	930	880	---	860	570	540	680	930	920	950
30	840	820	900	870	---	840	590	560	690	960	---	1270
31	840	---	910	880	---	820	---	590	---	850	940	---
MEAN	852	842	938	862	841	800	726	523	537	816	872	990

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	11.0	2.0	---	1.0	3.0	16.0	16.0	23.0	27.0	26.0	23.0
2	---	11.0	2.0	---	---	3.0	16.0	---	23.0	28.0	25.0	24.0
3	---	12.0	1.5	0.0	2.0	3.0	16.0	15.0	22.0	25.5	22.5	22.0
4	20.0	12.5	2.0	1.0	2.0	2.0	16.0	19.0	22.0	26.0	25.0	---
5	18.5	11.0	2.5	1.0	2.0	4.0	15.0	---	23.0	27.0	26.0	23.0
6	17.0	12.0	2.0	2.0	2.5	4.0	16.0	18.0	25.0	26.0	24.0	22.0
7	20.0	11.5	3.0	2.0	2.0	4.0	15.0	19.0	25.0	29.0	26.0	---
8	19.0	12.0	1.5	1.0	1.0	5.0	16.0	16.0	---	29.0	26.0	---
9	17.0	10.0	1.0	1.0	2.0	5.0	17.0	19.0	22.0	30.0	26.0	20.0
10	15.5	11.0	---	3.0	3.0	5.0	16.5	18.0	19.0	26.0	26.0	---
11	15.0	12.0	1.5	1.0	2.0	4.0	15.0	18.0	23.0	30.0	26.0	20.0
12	14.0	11.0	---	2.0	1.0	6.0	---	17.0	23.0	28.0	26.0	18.0
13	15.0	9.0	1.0	2.0	2.0	6.0	17.0	15.0	22.5	28.0	25.0	22.0
14	14.0	11.0	---	2.0	2.0	5.0	17.0	18.0	25.0	30.0	26.0	22.0
15	12.0	9.0	---	2.0	2.0	5.0	15.0	19.0	25.0	27.0	27.0	23.0
16	12.0	10.0	---	1.0	2.0	5.0	15.0	20.0	27.0	29.0	22.0	22.0
17	14.0	9.0	---	1.0	2.0	5.0	15.0	19.0	27.0	27.0	26.0	20.0
18	12.5	9.0	---	1.0	3.0	6.0	15.0	19.0	27.5	27.0	26.0	---
19	12.0	9.0	---	1.0	5.0	8.0	13.0	19.0	26.0	---	26.0	20.0
20	---	8.0	---	2.0	5.0	8.0	13.0	20.0	---	---	24.0	21.0
21	13.0	7.5	---	1.0	4.0	9.0	13.0	19.0	25.0	28.0	25.0	21.0
22	13.0	---	0.0	1.0	4.0	9.0	15.0	17.0	25.0	28.0	24.0	21.0
23	14.0	---	---	1.0	---	10.0	16.0	15.0	27.0	29.0	---	21.0
24	12.0	6.0	0.0	1.0	5.0	11.0	16.0	15.0	---	27.0	24.0	21.0
25	10.0	5.0	0.0	1.0	4.0	11.0	---	15.0	28.0	27.0	24.0	19.0
26	12.0	5.0	0.0	1.0	3.0	13.0	17.0	18.0	28.0	29.0	24.0	20.0
27	10.0	4.0	0.0	0.0	3.5	12.0	15.0	20.0	28.0	26.0	22.0	17.0
28	13.0	3.0	1.0	1.0	2.0	---	15.0	18.0	---	22.0	---	19.0
29	12.0	2.0	0.0	2.0	---	13.5	18.0	21.0	27.0	29.0	22.0	18.0
30	12.0	2.0	1.0	2.0	---	15.0	16.0	23.0	28.0	24.0	---	17.0
31	13.0	---	0.0	1.0	---	15.0	---	24.0	---	24.0	23.0	---
MEAN	14.3	8.8	1.1	1.3	2.7	7.2	15.6	18.2	24.8	27.3	24.8	20.6

09317800 ELECTRIC LAKE NEAR SCOFIELD, UT

LOCATION.--Lat 39°36'03", long 111°12'41", in NE¹/₄NE¹/₄SE¹/₄ sec. 14, T. 14 S., R. 6 E., Emery County, Hydrologic Unit 14060009, 25 mi northwest of Huntington, 21 mi east of Fairview.

DRAINAGE AREA.--31.0 mi².

PERIOD OF RECORD.--November 1973 to current year. Not published prior to 1986. Records available from PacifiCorp.

GAGE.--Elevation of gage is 8,300 ft above NGVD of 1929, PacifiCorp datum.

REMARKS.--Records good.

COOPERATION.--Records provided by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,190 acre-ft Oct 1, elevation 8,521.88 ft; minimum contents 7,364 acre-ft Sep 30, elevation, 8,493.16 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13190	12700	12130	11550	10910	10200	9595	9786	10640	9963	8989	7802
2	13170	12690	12110	11530	10900	10170	9501	9818	10640	9930	8955	7771
3	13160	12670	12090	11510	10870	10150	9509	9856	10660	9900	8923	7750
4	13140	12660	12070	11490	10850	10120	9513	9898	10660	9870	8891	7731
5	13120	12640	12040	11470	10820	10100	9513	9947	10650	9836	8861	7712
6	13100	12620	12020	11450	10810	10080	9511	10000	10630	9806	8829	7696
7	13090	12610	12000	11430	10770	10050	9515	10070	10620	9776	8797	7684
8	13070	12600	11980	11410	10760	10030	9530	10140	10600	9746	8764	7679
9	13070	12580	11950	11390	10730	10000	9538	10160	10610	9710	8730	7676
10	13070	12570	11920	11370	10710	9979	9544	10200	10600	9676	8695	7662
11	13060	12550	11900	11350	10680	9955	9558	10220	10570	9645	8662	7646
12	13050	12530	11880	11330	10660	9930	9574	10210	10540	9613	8627	7648
13	13030	12520	11860	11310	10640	9906	9591	10200	10510	9581	8585	7645
14	13020	12500	11840	11290	10620	9882	9601	10200	10500	9552	8537	7629
15	13000	12480	11830	11280	10590	9858	9613	10220	10480	9520	8484	7612
16	12980	12470	11810	11260	10570	9834	9659	10230	10450	9489	8435	7593
17	12960	12450	11800	11240	10550	9810	9674	10280	10440	9458	8388	7590
18	12950	12420	11790	11220	10530	9786	9684	10350	10400	9429	8345	7584
19	12930	12390	11770	11200	10510	9762	9680	10410	10380	9397	8301	7569
20	12910	12360	11750	11180	10500	9738	9676	10450	10360	9366	8260	7552
21	12890	12340	11720	11160	10480	9714	9692	10510	10330	9335	8217	7533
22	12870	12330	11720	11140	10450	9690	9682	10540	10300	9302	8172	7514
23	12860	12310	11710	11120	10420	9666	9668	10560	10270	9269	8128	7494
24	12840	12280	11700	11100	10400	9643	9666	10550	10220	9240	8089	7475
25	12820	12270	11680	11080	10380	9619	9670	10560	10200	9212	8053	7455
26	12800	12250	11660	11060	10360	9595	9690	10570	10190	9183	8016	7436
27	12770	12220	11650	11040	10290	9572	9722	10570	10080	9154	7983	7416
28	12760	12190	11630	11020	10280	9548	9744	10590	10050	9122	7944	7397
29	12740	12170	11610	11000	---	9524	9736	10600	10030	9089	7902	7379
30	12730	12150	11590	10980	---	9511	9748	10590	9995	9055	7865	7364
31	12710	---	11580	10910	---	9505	---	10610	---	9023	7833	---
MAX	13190	12700	12130	11550	10910	10200	9748	10610	10660	9963	8989	7802
MIN	12710	12150	11580	10910	10280	9505	9501	9786	9995	9023	7833	7364
(#)	8519.85	8517.42	8514.88	8511.80	8508.82	8504.95	8506.18	8510.40	8507.42	8502.45	8495.90	8493.16
(*)	-700	-560	-570	-670	-630	-775	+243	+862	-615	-972	-1190	-469

CAL YR 2001.....(*) -6140

WTR YR 2002.....(*) -6046

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

LOCATION.--Lat 39°23'07", long 111°05'15", in SE¹/₄NE¹/₄SW¹/₄, sec. 36, T. 16 S., R. 7 E., Emery County, Hydrologic Unit 14060009, on right bank about 500 ft upstream from bridge to Deer Creek Mine, 8 mi northwest of Huntington.

PERIOD OF RECORD.--October 1979 to current year. Water years 1981-85 not published, records available in office of PacificCorp, located in Salt Lake City, Ut.

REMARKS.--Records fair. Small transmountain diversions to tributaries of San Pitch River (Sevier Lake Basin). Flow regulated by reservoirs above station.

AVERAGE DISCHARGE.--19 years, 77.6 ft³/s, 56,220 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,680 ft³/s, May 24, 1984, gage height, 4.96 ft; minimum, 3.0 ft³/s, Feb 2-5, 1981.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	24	21	16	8.2	27	27	66	73	44	46	16
2	51	20	22	18	8.5	27	27	60	64	42	47	16
3	53	20	22	17	8.8	27	31	60	64	47	47	16
4	53	20	22	16	9.4	27	36	61	54	54	46	16
5	54	20	19	16	10	27	37	66	51	54	46	16
6	54	19	19	18	10	27	35	70	51	60	49	16
7	55	20	19	15	11	25	36	74	50	59	59	17
8	54	21	18	15	12	24	33	68	50	62	53	16
9	58	18	18	14	12	24	31	58	47	88	49	18
10	45	18	18	14	12	22	34	62	42	80	49	18
11	45	18	20	14	12	21	35	62	41	61	49	21
12	44	18	18	14	13	21	38	57	41	61	50	21
13	43	19	18	14	14	21	44	70	47	62	53	18
14	42	18	19	13	14	20	51	76	75	62	68	18
15	42	18	19	13	15	21	52	78	76	62	68	18
16	40	18	18	14	15	22	43	79	75	62	68	19
17	39	18	18	12	15	24	37	81	74	63	69	23
18	40	19	18	12	16	21	34	85	64	62	69	20
19	39	19	18	17	16	22	29	96	63	62	67	20
20	39	20	18	11	16	24	29	99	63	62	91	20
21	39	19	18	12	17	24	29	92	62	61	120	20
22	39	20	18	12	18	25	28	72	60	60	127	21
23	38	20	18	10	18	25	34	62	60	60	142	21
24	33	21	17	9.8	18	25	56	60	60	60	139	21
25	32	20	16	9.4	19	24	46	48	60	60	135	21
26	32	20	16	10	20	23	55	49	53	54	127	22
27	32	19	17	11	26	24	56	54	52	47	123	22
28	38	19	17	9.4	27	24	52	61	52	49	32	22
29	38	19	16	8.8	---	23	56	65	51	49	16	22
30	39	20	16	8.2	---	24	64	71	49	46	15	23
31	40	---	16	7.6	---	25	---	74	---	42	15	---
TOTAL	1343	582	567	401.2	410.9	740	1195	2136	1724	1797	2134	578
MEAN	43.32	19.40	18.29	12.94	14.68	23.87	39.83	68.90	57.47	57.97	68.84	19.27
MAX	58	24	22	18	27	27	64	99	76	88	142	23
MIN	32	18	16	7.6	8.2	20	27	48	41	42	15	16
AC-FT	2660	1150	1120	796	815	1470	2370	4240	3420	3560	4230	1150
CAL YR 2001	TOTAL 13608.1	MEAN 54.62	MAX 221	MIN 14	AC-FT 39550							
WTR YR 2002	TOTAL 13608.1	MEAN 37.28	MAX 142	MIN 7.6	AC-FT 26990							

GREEN RIVER BASIN

09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UT (Transmountain diversion)

LOCATION.--Lat 39°19'47", long 111°25'51", in SE¹/₄SE¹/₄SE¹/₄ sec. 14, T. 17 S., R. 4 E., Sanpete County, Hydrologic Unit 14060009, at east tunnel portal, 9.0 mi east of Ephraim.

PERIOD OF RECORD.--September 1949 to current year. Monthly discharge only for September 1949 to September 1960; figures of daily discharge available in Salt Lake City District Office, Geological Survey. Seasonal records only since October 1971.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 9,694.9 ft above NGVD of 1929. (Levels by U.S. Geological Survey, Topographic Division.)

REMARKS.--Records poor. Tunnel diverts from Cottonwood Creek drainage in Colorado River Basin to San Pitch River in the Great Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft³/s, June 6, 1964, gage height, 5.43 ft; no flow at times in some years.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e1.5	e2.5	22	4.6	e0.40	0.32
2	---	---	---	---	---	---	e1.4	e2.7	19	4.5	e0.30	0.29
3	---	---	---	---	---	---	e1.8	e3.0	18	4.4	e0.20	0.39
4	---	---	---	---	---	---	e1.5	e3.3	16	4.3	e0.15	0.36
5	---	---	---	---	---	---	e1.1	e4.7	15	4.2	e0.10	0.65
6	---	---	---	---	---	---	e0.19	e9.5	15	4.0	e0.05	1.2
7	---	---	---	---	---	---	e0.44	e20	14	3.9	e0.03	1.2
8	---	---	---	---	---	---	e0.09	e27	13	3.7	e0.02	0.32
9	---	---	---	---	---	---	e0.07	e29	12	3.6	e0.01	1.1
10	---	---	---	---	---	---	e0.05	e31	11	3.5	0.00	0.29
11	---	---	---	---	---	---	e0.03	e23	10	3.5	0.00	0.84
12	---	---	---	---	---	---	e0.00	e21	9.6	3.3	e0.02	1.0
13	---	---	---	---	---	---	e0.32	e33	9.2	3.2	e0.03	0.72
14	---	---	---	---	---	---	e0.04	e56	8.9	3.2	e0.04	0.24
15	---	---	---	---	---	---	e0.05	e70	8.5	3.0	e0.06	0.28
16	---	---	---	---	---	---	e0.77	e70	7.6	3.0	e0.09	0.84
17	---	---	---	---	---	---	e0.02	e74	7.3	2.9	e0.12	0.68
18	---	---	---	---	---	---	e0.00	e73	7.1	2.9	e0.15	1.5
19	---	---	---	---	---	---	e0.00	e79	6.9	2.7	e0.14	0.85
20	---	---	---	---	---	---	e0.00	e74	6.5	2.6	e0.16	0.21
21	---	---	---	---	---	---	e0.00	e48	6.2	2.5	e0.15	0.05
22	---	---	---	---	---	---	e0.00	e26	5.9	2.4	e0.16	0.17
23	---	---	---	---	---	---	e0.00	20	5.5	2.4	e0.18	0.55
24	---	---	---	---	---	---	e0.00	17	5.4	2.3	e0.20	0.18
25	---	---	---	---	---	---	e0.02	16	5.3	2.3	0.22	0.25
26	---	---	---	---	---	---	e0.18	19	5.1	2.4	0.05	0.15
27	---	---	---	---	---	---	e0.99	27	5.0	2.1	0.04	0.11
28	---	---	---	---	---	---	e1.2	30	4.9	1.0	0.05	0.25
29	---	---	---	---	---	---	e1.5	30	4.8	0.90	0.21	0.47
30	---	---	---	---	---	---	e2.3	30	4.7	1.0	0.27	0.09
31	---	---	---	---	---	---	---	28	---	0.63	0.24	---
TOTAL	---	---	---	---	---	---	15.56	996.7	289.4	90.93	3.84	15.55
MEAN	---	---	---	---	---	---	0.519	32.15	9.647	2.933	0.124	0.518
MAX	---	---	---	---	---	---	2.3	79	22	4.6	0.40	1.5
MIN	---	---	---	---	---	---	0.00	2.5	4.7	0.63	0.00	0.05
AC-FT	---	---	---	---	---	---	31	1980	574	180	7.6	31

e Estimated

09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UT (Transmountain diversion)

LOCATION.--Lat 39°25'34", long 111°21'51", in NW¹/₄SW¹/₄SE¹/₄ sec. 16, T. 16 S., R. 5 E., Sanpete County, Hydrologic Unit 14060009, at west portal of tunnel, 11 mi east of Spring City.

PERIOD OF RECORD.--October 1949 to current year. Monthly discharges only for October 1949 to September 1960. Figures of daily discharge available from Salt Lake City District Office, Geological Survey. Seasonal records only since October 1971.

GAGE.--Water-stage recorder. Datum of gage is 9,838 ft above NGVD of 1929. Prior to August 24, 1960, at datum about 0.3 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Tunnel diverts from Cottonwood Creek drainage in Colorado River Basin to San Pitch River in the Great Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 111 ft³/s, July 23, 1965; possibly no flow at times in some years.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e1.0	e1.6	18	2.4	1.4	0.68
2	---	---	---	---	---	---	e0.90	e1.8	16	2.4	1.4	0.65
3	---	---	---	---	---	---	e1.2	e1.9	14	2.2	1.3	0.70
4	---	---	---	---	---	---	e1.0	e2.1	13	2.1	1.3	0.69
5	---	---	---	---	---	---	e0.80	e3.0	12	2.0	1.2	0.68
6	---	---	---	---	---	---	e0.15	e6.2	12	2.0	1.2	1.1
7	---	---	---	---	---	---	e0.30	e13	11	2.0	1.2	1.1
8	---	---	---	---	---	---	e0.12	e16	10	1.9	1.1	1.1
9	---	---	---	---	---	---	e0.09	e18	8.6	1.8	1.0	0.79
10	---	---	---	---	---	---	e0.04	9.3	7.3	1.8	1.00	0.70
11	---	---	---	---	---	---	e0.00	7.9	6.6	1.7	0.96	1.5
12	---	---	---	---	---	---	e0.22	8.2	6.2	1.7	0.94	1.2
13	---	---	---	---	---	---	e0.08	12	5.8	1.7	0.95	0.83
14	---	---	---	---	---	---	e0.05	16	5.6	1.7	0.91	0.72
15	---	---	---	---	---	---	e0.05	18	5.2	1.7	0.90	0.69
16	---	---	---	---	---	---	e0.00	20	4.9	1.6	0.88	1.8
17	---	---	---	---	---	---	e0.00	21	4.6	1.6	0.88	1.1
18	---	---	---	---	---	---	e0.00	23	4.4	1.6	0.87	1.2
19	---	---	---	---	---	---	e0.00	24	4.2	1.6	0.92	1.00
20	---	---	---	---	---	---	e0.00	24	4.0	1.6	0.94	0.87
21	---	---	---	---	---	---	e0.00	19	3.8	1.6	0.86	0.80
22	---	---	---	---	---	---	e0.00	15	3.6	1.6	0.82	0.77
23	---	---	---	---	---	---	e0.00	12	3.4	1.6	0.79	0.76
24	---	---	---	---	---	---	e0.00	11	3.2	1.5	0.76	0.74
25	---	---	---	---	---	---	e0.00	12	3.0	1.5	0.74	0.69
26	---	---	---	---	---	---	e0.15	13	2.9	1.5	0.72	0.66
27	---	---	---	---	---	---	e0.65	17	2.8	1.5	0.72	0.67
28	---	---	---	---	---	---	e0.75	19	2.6	1.4	0.72	0.67
29	---	---	---	---	---	---	e0.90	20	2.6	1.4	0.72	0.84
30	---	---	---	---	---	---	e1.5	21	2.5	1.4	0.72	e0.83
31	---	---	---	---	---	---	---	20	---	1.3	0.69	---
TOTAL	---	---	---	---	---	---	9.95	426.0	203.8	53.4	29.51	26.53
MEAN	---	---	---	---	---	---	0.332	13.74	6.793	1.723	0.952	0.884
MAX	---	---	---	---	---	---	1.5	24	18	2.4	1.4	1.8
MIN	---	---	---	---	---	---	0.00	1.6	2.5	1.3	0.69	0.65
AC-FT	---	---	---	---	---	---	20	845	404	106	59	53

e Estimated

09323900 JOES VALLEY RESERVOIR NEAR ORANGEVILLE, UT

LOCATION.--Lat 39°17'20", long 111°16'10", in NW¹/₄NE¹/₄ sec. 5, T. 18 S., R. 6 E., Emery County, Hydrologic Unit 14060009, on Seeley Creek 5.2 mi upstream from Cottonwood Creek, and 12.6 mi west of Orangeville.

DRAINAGE AREA.--146 mi².

PERIOD OF RECORD.--November 1965 to current year.

GAGE.--Water-stage recorder in control house at downstream end of outlet tunnel. Datum of gage is sea level (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam. Storage began November 3, 1965. Usable capacity, 54,610 acre-ft between elevations 6,910.0 and 6,989.7 ft above mean NGVD of 1929. Dead storage, 870 acre-ft between elevations 6,817.0 and 6,866.5 ft. Inactive storage, 6,980 acre-ft between elevations 6,866.5 and 6,910.0 ft. Figures given herein represent total contents. Water is used for irrigation. Huntington North Reservoir, a small off-channel reservoir near Huntington, is operated in conjunction with Joes Valley Reservoir; records not included.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 66,030 acre-ft, Jun 20, 21, 1983; minimum observed since reservoir was first filled, 7,710 acre-ft, Oct 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 39,090 acre-ft Jun 5-8, elevation, 6,967.6 ft; minimum observed, 19,330 acre-ft, Sep 3,4,5, elevation, 6,939.5 ft.

MONTH END ELEVATION, IN FEET, AND CONTENTS AT 2400, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sep 30.....	6,967.6	39,090	--
Oct 31.....	6,966.5	38,150	-940
Nov 30.....	6,966.5	38,150	0
Dec 31.....	6,966.3	37,640	-510
CAL YR 2001	--	--	-2,490
Jan 31.....	6,966.0	37,730	+90
Feb 28.....	6,965.5	37,310	-420
Mar 31.....	6,965.2	37,060	-250
Apr 30.....	6,965.1	36,970	-90
May 31.....	6,967.2	38,740	+1,770
Jun 30.....	6,963.7	35,820	-2,920
Jul 31.....	6,952.9	27,700	-8,120
Aug 31.....	6,940.0	19,610	-8,090
Sep 30.....	6,940.8	20,070	+460
WTR YR 2002	--	--	-19,020

09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT

LOCATION.--Lat 39°06'15", long 111°12'57", in NE¹/₄SE¹/₄SW¹/₄ sec. 2, T. 20 S., R. 6 E., Emery County, Hydrologic Unit 14060009, on right bank 1.8 mi upstream from Dry Wash and 4.5 mi west of Ferron.

DRAINAGE AREA.--138 mi².

PERIOD OF RECORD.--May 1911 to September 1923, October 1947 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for station at site 2 mi downstream published as Ferron Creek near Ferron, April 1909 to October 1911, not equivalent because of diversions 1.5 mi downstream from present site.

REVISED RECORDS.--WSP 1243: 1951(P). WSP 1313: 1920(M).

GAGE.--Water-stage recorder. Elevation of gage is 6,210 ft above NGVD of 1929, from topographic map. May 6, 1911 to September 30, 1923, nonrecording gages in vicinity of present site at different datums. December 19, 1947 to September 30, 1966, at site 1.5 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Slight regulation by small reservoir above station (capacity not known). Small diversions above station for irrigation, including a transmountain diversion to tributary of San Pitch River (Sevier Lake basin). Greater part of flow diverted during irrigation season by Upper North and Upper South Canals, 1.5 mi below station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,180 ft³/s, Aug 27, 1952, gage height, 9.71 ft, site and datum then in use, from rating table extended above 400 ft³/s, on basis of slope-area measurements at gage heights, 8.70 ft and 9.71 ft, site and datum then in use; no flow Oct 19, 20, 21, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 18	2045	*264	*4.01				

Minimum daily discharge, 6.4 ft³/s, Jan 31.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	15	e8.6	e12	e6.6	e9.9	18	81	136	33	16	13
2	16	13	e9.0	e11	e6.6	e9.6	21	77	130	32	17	13
3	15	13	e9.4	e11	e6.8	e9.2	23	87	133	32	17	13
4	15	e12	e9.4	e10	e7.0	e9.0	24	99	121	31	16	14
5	15	14	e9.4	e9.4	e7.0	e9.3	26	122	114	30	16	13
6	15	13	e9.6	e9.4	e7.1	e9.5	25	142	106	30	15	16
7	16	13	e9.8	e9.6	e7.2	e9.5	22	165	101	28	16	19
8	16	13	e9.8	e9.7	e7.3	e10	25	147	98	27	16	21
9	18	e11	e9.8	e10	e7.4	e9.4	25	131	94	34	14	17
10	17	15	e10	e9.6	e7.5	e10	30	138	89	34	14	14
11	16	15	e9.7	e9.2	e7.5	e11	33	133	85	34	14	16
12	16	14	e9.5	e8.8	e7.8	e11	34	118	81	32	13	24
13	17	14	e9.3	e8.2	e8.4	e11	35	141	78	31	13	16
14	16	13	e9.5	e7.8	e8.6	e9.5	41	177	76	31	13	13
15	15	e11	e9.8	e7.2	e8.8	e9.5	43	191	73	30	13	12
16	15	e12	e9.4	e7.0	e8.8	e9.7	36	194	71	30	13	13
17	15	e12	e9.6	e7.0	e9.0	e9.9	32	204	68	32	12	23
18	15	14	e9.6	e7.0	e9.4	e9.8	29	212	65	37	12	16
19	14	e9.8	e9.8	e6.6	e9.4	e9.5	26	209	64	36	13	14
20	15	e9.6	e10	e7.0	e9.6	e10	24	204	62	33	14	11
21	15	e9.6	e10	e7.2	e9.7	e11	23	186	60	30	14	10
22	15	e10	e10	e7.2	e10	12	23	149	58	30	13	9.9
23	14	e9.7	e9.6	e7.1	e11	14	25	133	56	22	12	9.7
24	e11	e9.6	e9.6	e6.7	e11	12	34	132	54	20	12	9.6
25	e11	e10	e9.4	e6.9	e9.7	11	46	130	52	19	12	9.5
26	e12	e9.7	e9.4	e7.1	e9.0	11	63	135	50	20	11	9.6
27	14	e9.4	e9.5	e7.2	e9.4	12	62	135	46	20	13	9.5
28	15	e9.4	e9.7	e7.4	e9.6	14	52	141	38	18	13	9.6
29	14	e9.4	e10	e7.1	---	15	58	144	37	17	14	12
30	14	e9.1	e11	e6.8	---	15	75	144	35	16	14	12
31	16	---	e12	e6.4	---	16	---	143	---	16	13	---
TOTAL	464	352.3	301.2	254.6	237.2	339.3	1033	4544	2331	865	428	412.4
MEAN	14.97	11.74	9.716	8.213	8.471	10.95	34.43	146.6	77.70	27.90	13.81	13.75
MAX	18	15	12	12	11	16	75	212	136	37	17	24
MIN	11	9.1	8.6	6.4	6.6	9.0	18	77	35	16	11	9.5
AC-FT	920	699	597	505	470	673	2050	9010	4620	1720	849	818

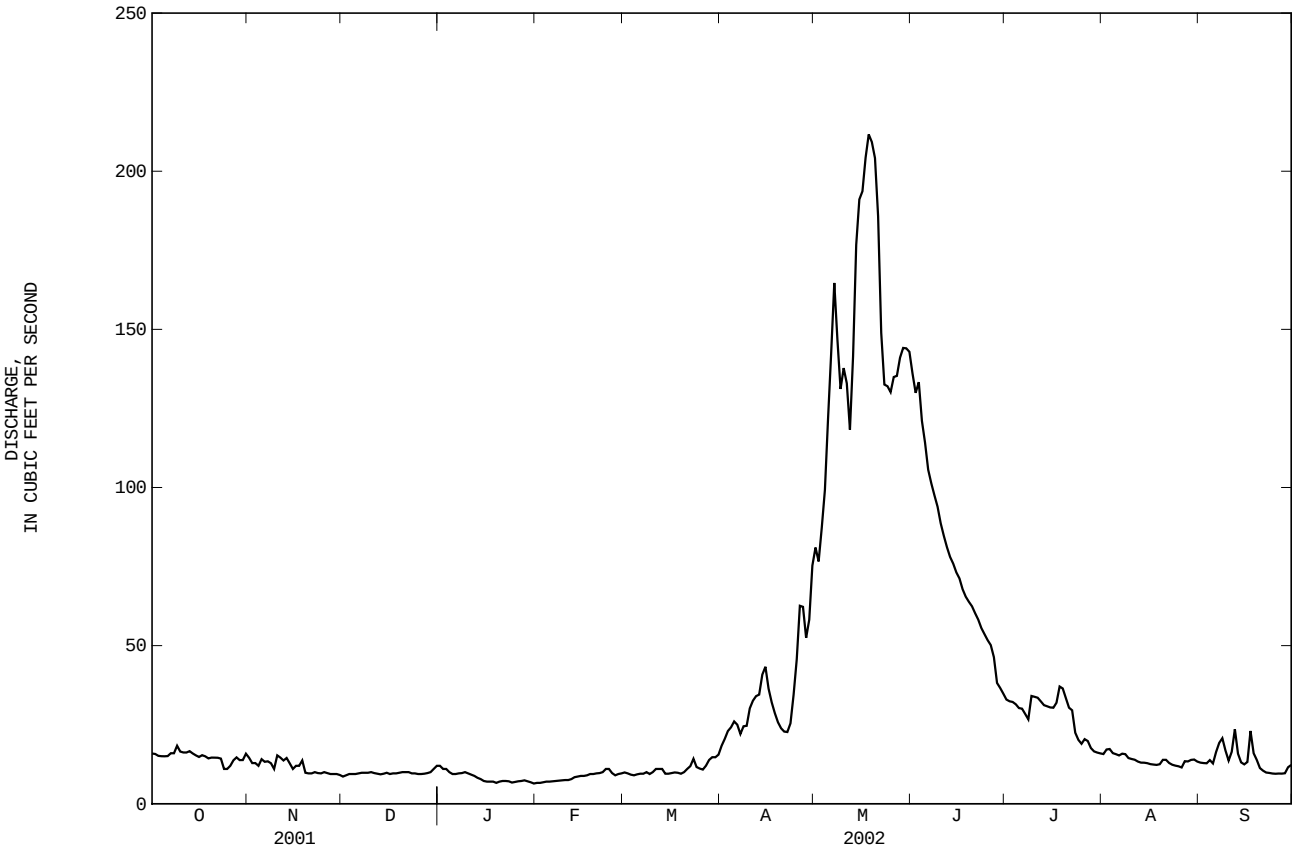
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912-23, 1948-2002, BY WATER YEAR (WY)

	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923
MEAN	18.12	13.76	10.78	9.137	10.16	14.10	44.62	220.6	287.5	97.76	41.07	24.20
MAX	70.2	32.2	21.5	19.7	30.4	26.7	128	486	732	404	128	51.0
(WY)	1917	1985	1985	1998	1998	1998	1985	1952	1984	1983	1983	1952
MIN	7.59	6.40	4.27	3.00	4.61	5.02	13.7	44.8	40.3	17.2	12.0	9.30
(WY)	1960	1995	1963	1963	1978	1977	1967	1977	1977	1977	1977	1994

09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1912-23, 1948-2002	
ANNUAL TOTAL	20572.2		11562.0		66.12	
ANNUAL MEAN	56.36		31.68		140	
HIGHEST ANNUAL MEAN					17.6	
LOWEST ANNUAL MEAN					1240	
HIGHEST DAILY MEAN	487	May 17	212	May 18	1.0	Mar 22 1912
LOWEST DAILY MEAN	8.2	Jan 20	6.4	Jan 31	2.6	Jan 4 1960
ANNUAL SEVEN-DAY MINIMUM	9.0	Jan 19	6.7	Jan 30		
ANNUAL RUNOFF (AC-FT)	40800		22930		47900	
10 PERCENT EXCEEDS	155		96		194	
50 PERCENT EXCEEDS	20		14		18	
90 PERCENT EXCEEDS	9.6		8.8		8.0	

e Estimated



09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT

LOCATION.--Lat 38°51'30", long 110°22'10", in SE¹/₄SE¹/₄NW¹/₄ sec. 34, T. 22 S., R. 14 E., Emery County, Hydrologic Unit 14060009, on left bank 300 ft upstream from bridge on State Highway 24, 14.0 mi southwest of Green River, and 34.3 mi upstream from mouth.

DRAINAGE AREA.--1,628 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1909 to September 1918, September 1919 to July 1920 (gage heights only), October 1945 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,190 ft above NGVD of 1929, from topographic map. May 5, 1909 to September 10, 1918, staff gage, and September 10, 1919 to July 10, 1920, tape-weight gage. November 29, 1945 to July 7, 1976, water-stage recorder at various sites and datums about 1 mi upstream.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 42,000 acres. Several small transmountain diversions from tributaries for irrigation in Sevier Lake Basin, and some storage since November 3, 1965, in Joes Valley Reservoir (see station 09323900).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft³/s, Sep 2, 1909, gage height, 12.7 ft, site and datum then in use, from rating curve extended above 3,100 ft³/s; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	2000	*1,450	*7.81	Sep 12	1600	1,380	7.68

No flow on many days in Jun, Jul, Aug, and Sep.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	20	e15	16	e15	31	13	2.9	3.9	0.00	e0.00	e18
2	e13	18	e15	e15	e14	32	12	4.6	5.7	0.00	0.00	e4.0
3	14	18	e15	e14	e14	31	12	4.8	5.0	0.00	0.00	e0.50
4	14	18	e16	e14	e14	33	9.9	4.8	6.0	0.00	0.00	e0.00
5	15	18	e14	e13	e13	32	8.8	6.1	4.5	0.00	0.00	0.00
6	14	18	e14	e13	e14	33	8.3	6.5	4.5	0.00	0.00	0.00
7	14	18	e13	e14	e14	34	7.8	7.5	5.2	0.00	0.00	e10
8	14	19	e13	e15	e15	40	7.3	7.9	6.6	0.00	0.00	e480
9	19	19	e14	e16	e16	33	7.4	8.8	5.8	0.00	0.00	212
10	22	20	e14	e15	e15	30	7.1	8.4	4.1	0.00	0.00	119
11	21	22	e13	e15	e15	29	6.8	7.9	2.8	0.00	0.00	69
12	22	21	e13	e14	e17	30	6.1	7.3	e1.4	0.00	0.00	609
13	23	22	e12	e14	e18	33	5.5	7.6	e0.75	0.00	0.00	754
14	21	23	12	e13	e20	33	5.1	8.4	e0.50	0.00	0.00	114
15	19	22	e14	e13	e18	33	4.9	9.3	e0.10	0.00	0.00	40
16	19	22	e14	e13	e20	28	5.0	9.4	e0.04	0.00	0.00	25
17	18	20	15	e12	e22	27	4.6	9.6	e0.02	0.00	0.00	22
18	18	20	15	e12	e24	26	4.7	8.3	e0.00	0.00	0.00	33
19	18	20	16	e13	e23	23	4.5	7.6	0.00	0.00	0.00	29
20	17	19	13	e14	e26	23	4.3	5.9	0.00	0.00	0.00	19
21	17	19	e12	e15	28	23	3.6	6.5	0.00	0.00	e94	17
22	16	20	e12	e15	27	24	4.8	7.5	0.00	0.00	101	14
23	17	21	e11	e15	26	23	4.6	7.8	0.00	0.00	22	13
24	15	22	e10	e13	30	21	4.4	7.3	0.00	0.00	e6.0	e10
25	16	26	e11	e13	31	20	4.1	7.0	0.00	e1.1	e1.0	e3.0
26	17	23	12	e14	28	19	4.0	6.8	0.00	e0.55	e0.00	e0.70
27	17	21	12	e14	30	17	3.5	6.2	0.00	e0.07	0.00	e0.00
28	16	18	12	e15	32	17	4.1	5.6	0.00	e3.2	0.00	0.00
29	18	15	12	e16	---	14	3.8	5.2	0.00	2.2	0.00	e3.0
30	19	e15	13	e17	---	13	3.0	5.1	0.00	e0.52	0.00	e1.2
31	19	---	13	e16	---	13	---	4.7	---	e0.10	0.00	---
TOTAL	534	597	410	441	579	818	185.0	213.3	56.91	7.74	224.00	2619.40
MEAN	17.23	19.90	13.23	14.23	20.68	26.39	6.167	6.881	1.897	0.250	7.226	87.31
MAX	23	26	16	17	32	40	13	9.6	6.6	3.2	101	754
MIN	12	15	10	12	13	13	3.0	2.9	0.00	0.00	0.00	0.00
AC-FT	1060	1180	813	875	1150	1620	367	423	113	15	444	5200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910-18, 1946-2002, BY WATER YEAR (WY)

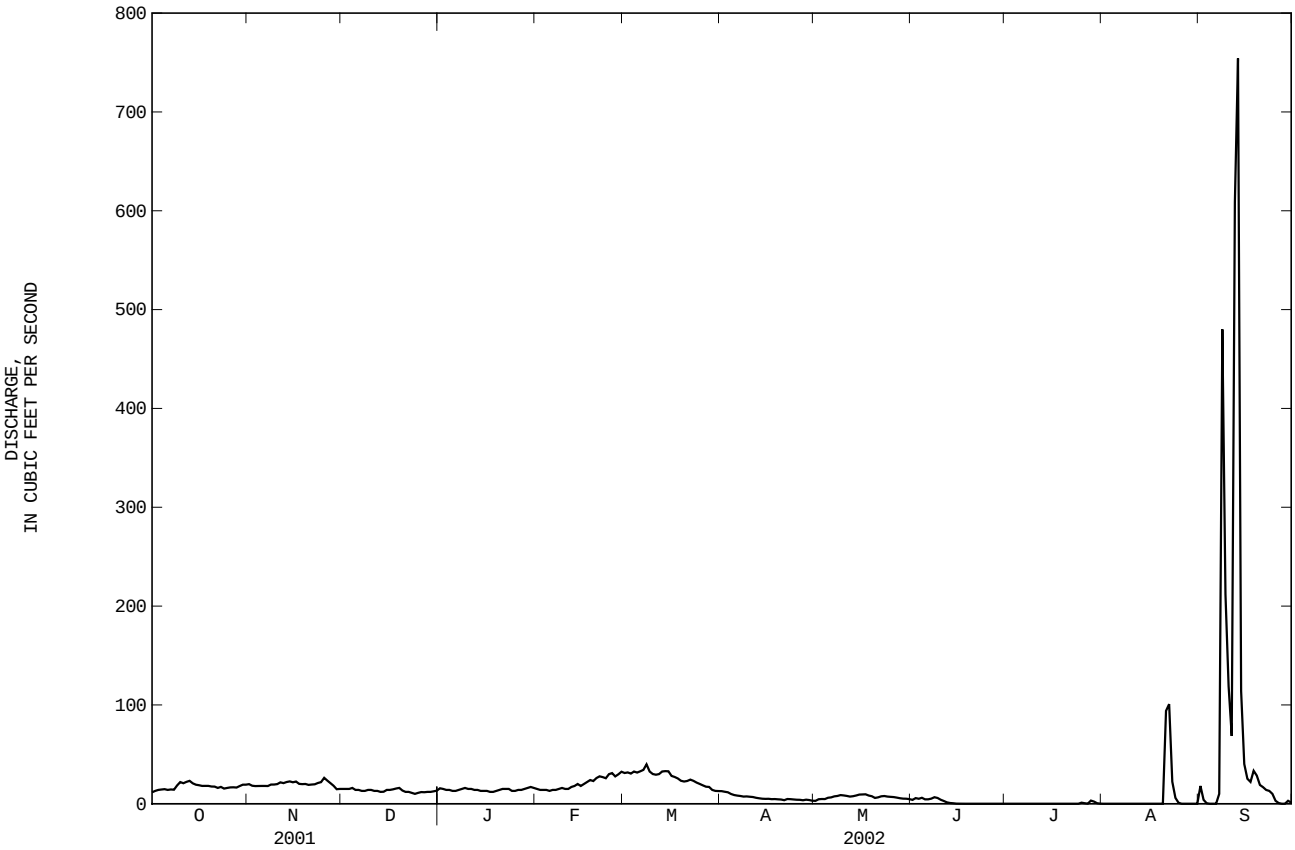
	1910-18	1946-19	1950-59	1960-69	1970-79	1980-89	1990-99	2000-02
MEAN	91.35	67.01	46.42	43.14	69.94	104.1	101.6	290.0
MAX	848	358	125	224	200	729	748	1626
(WY)	1917	1958	1910	1911	1910	1910	1914	1983
MIN	0.85	5.68	11.8	13.1	20.7	23.3	6.17	3.72
(WY)	1957	1978	1978	1991	2002	1976	2002	1977

GREEN RIVER BASIN

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1910-18, 1946-2002	
ANNUAL TOTAL	12454.90		6685.35		138.9	
ANNUAL MEAN	34.12		18.32		483	
HIGHEST ANNUAL MEAN					17.6	
LOWEST ANNUAL MEAN					7300	
HIGHEST DAILY MEAN	263	Mar 11	754	Sep 13	1984	
LOWEST DAILY MEAN	0.70	Aug 5	0.00	Jun 18	1990	
ANNUAL SEVEN-DAY MINIMUM	1.4	Sep 7	0.00	Jun 18	0.00	Aug 24 1910
ANNUAL RUNOFF (AC-FT)	24700		13260		100600	0.00 Aug 15 1915
10 PERCENT EXCEEDS	94		26		301	
50 PERCENT EXCEEDS	21		13		50	
90 PERCENT EXCEEDS	8.4		0.00		11	

e Estimated



09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1946 to September 1949, October 1950 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July to September 1949, November 1950 to September 1962, October 1964 to September 1979, daily, March 1982 to current year.

WATER TEMPERATURE: July to September 1949, October 1950 to September 1962, October 1964 to September 1977

SUSPENDED-SEDIMENT DISCHARGE: March 1948 to September 1949, October 1950 to September 1959.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily observed (water years 1949, 1951-70, 1974-77, 1982 to current year), 7,230 microsiemens, Jul 15, 1954 and Jun 29, 1977; minimum daily observed (water years 1949, 1951-77, 1982 to current year), 650 microsiemens, Jun 29, 1984.

WATER TEMPERATURE: Maximum (water years 1949, 1951-61, 1966-77), 35.0°C, Jul 11, 1954; minimum, 0.0°C, on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum observed, 4,980 microsiemens, May 7; minimum observed, 2,380 microsiemens, Sep 15.

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

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	GAGE HEIGHT (FEET) (00065)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
NOV 09...	0845	20	8.0	3720	7.0	7.0	2.64	3370
DEC 18...	0845	15	7.9	4140	-3.5	.0	2.61	3850
MAR 12...	0830	32	7.9	2780	5.0	6.0	2.96	2300
APR 22...	0820	4.5	7.9	4200	10.0	7.0	2.51	3930
MAY 28...	0845	4.8	7.9	4300	21.0	16.0	2.63	3760

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	3560	3830	3730	---	---	---
2	---	---	3560	---	---	---	3640	3950	3870	---	3060	3380
3	---	---	---	---	3010	3010	3640	4310	4000	---	3020	---
4	3150	3300	---	2540	---	---	3610	4360	3830	---	3080	---
5	---	---	3640	---	---	---	3700	4580	3800	---	3220	2910
6	2950	---	---	2660	---	2780	3740	4550	3880	---	3110	---
7	---	---	---	---	3080	---	3710	4980	4160	---	3310	---
8	---	---	---	---	---	---	3800	4850	4360	---	3320	2960
9	---	3630	3640	---	---	---	3770	4460	4480	---	3440	---
10	2580	---	---	2880	2810	2520	3850	3740	4460	---	3350	---
11	---	3510	---	---	---	---	3780	4090	4170	---	3380	2540
12	2720	---	---	---	---	---	3860	4100	3900	---	3540	---
13	---	---	4020	2780	2750	---	3860	3880	3800	---	3500	---
14	---	3320	---	---	---	2870	3890	3750	3650	---	3630	---
15	2730	---	---	---	---	---	3860	3510	3600	---	3570	2380
16	---	---	4150	---	---	---	3900	4160	3530	---	---	---
17	---	---	---	3360	---	---	3930	4320	3630	---	---	---
18	2730	3400	---	---	2450	2910	3970	4030	3610	---	3580	---
19	---	---	---	---	---	---	3920	4060	3830	---	---	2710
20	---	---	4160	3350	---	---	3980	3810	3810	---	---	---
21	3070	3490	---	---	2500	3080	3940	3850	4080	---	3100	---
22	---	---	---	---	---	---	3890	3770	4800	---	---	2870
23	---	---	3890	---	---	---	4160	3930	4930	---	---	---
24	---	---	---	2700	2460	2970	4250	3950	---	---	---	---
25	3180	---	---	---	---	---	4170	3800	---	---	3010	---
26	---	3470	3280	---	---	---	3980	3750	---	---	---	2970
27	---	---	---	3240	---	3140	3980	3990	---	---	---	---
28	3290	---	---	---	2860	---	3900	3790	---	---	3210	---
29	---	---	---	---	---	---	4020	3700	---	---	---	2980
30	---	3480	3160	---	---	---	3990	3560	---	---	---	---
31	3640	---	---	3370	---	3490	---	3640	---	---	---	---
MEAN	3000	3450	3720	2990	2740	2970	3880	4030	4000	---	3300	2860

09330000 FREMONT RIVER NEAR BICKNELL, UT

LOCATION.--Lat 38°18'25", long 111°31'05", in SW¹/₄NE¹/₄NW¹/₄ sec. 7, T. 29 S., R. 4 E., Wayne County, Hydrologic Unit 14070003, on left bank 150 ft upstream of county road bridge, 1.2 mi downstream of Pine Creek, and 2.9 mi southeast of Bicknell along Highway U-24.

DRAINAGE AREA.--751 mi².

PERIOD OF RECORD.--May 1909 to December 1912 (published as "near Thurber") October 1937 to September 1958 (1944-46, fragmentary), October 1976 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,920 ft above NGVD of 1929, from topographic map. May 1909 to December 1912, staff gage near present site. October 1937 to June 28, 1949, staff gages on two canals and river station about 0.25 mi downstream. June 28, 1949 to April 29, 1958, water-stage recorders on river and canal site. April 29 to September 30, 1958, staff gage on river at site 600 ft further downstream from water-stage recorder. October 1, 1976 to April 2, 1990, water-stage recorder at site about 150 ft downstream at datum 3.00 ft higher. Gages at different datums prior to 1976.

REMARKS.--Records good except for periods of heavy moss growth in the channel from June to November and estimated daily discharges, which are poor. Diversions for irrigation of about 10,600 acres above station. Flow regulated by Fish Lake, Johnson, Forsyth, and Mill Meadow Reservoirs (combined capacity about 232,000 acre-ft).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,360 ft³/s, Mar 21, 1997 (could have been less due to backwater from bridge abutment), gage height, 7.02 ft, from rating curve extended above 770 ft³/s, maximum gage height, 7.59 ft Apr 24, 1998; minimum observed discharge, 18 ft³/s, Jun 2, 4, 13-15, 17-18, 1912.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 296 ft³/s, Jan 19, gage height, 5.34 ft; minimum daily discharge, 48 ft³/s, Jul 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	85	94	92	e82	e94	90	74	58	49	49	54
2	66	87	98	91	84	e94	89	76	58	51	52	55
3	64	87	103	92	e83	e92	84	77	59	54	61	58
4	64	87	103	92	e83	e93	81	75	60	55	59	59
5	63	88	e96	e89	e83	94	85	76	58	52	56	59
6	64	89	97	93	85	96	85	75	56	53	53	64
7	65	89	99	94	85	97	85	72	54	53	53	71
8	67	89	e93	95	85	95	85	69	53	52	52	74
9	74	90	93	96	e83	e94	87	72	52	52	51	69
10	69	93	93	94	85	97	87	e71	54	52	51	66
11	69	92	94	92	87	98	88	e72	54	50	50	68
12	71	93	e90	94	88	101	91	e74	53	49	50	72
13	72	94	e85	93	86	103	92	e75	52	49	51	74
14	71	94	87	88	89	e93	89	74	52	50	52	70
15	71	94	e85	93	87	e94	86	79	51	49	51	67
16	72	95	e80	e90	88	95	86	73	51	50	51	66
17	74	95	82	e87	89	94	86	70	52	51	50	67
18	76	96	90	e85	90	95	86	68	51	53	50	65
19	77	95	92	e85	88	95	86	66	51	55	51	63
20	78	95	92	e86	92	97	86	63	53	55	54	62
21	79	98	92	88	94	96	87	62	52	53	52	62
22	79	102	e84	89	97	96	86	62	51	52	51	63
23	80	104	85	e83	100	94	84	66	51	52	52	62
24	78	97	e84	e83	99	92	82	67	51	50	52	61
25	79	103	e82	84	96	91	82	63	51	52	53	63
26	80	e97	e85	86	e94	92	83	62	50	53	52	62
27	82	e91	89	85	96	93	81	62	50	54	52	62
28	84	e90	94	84	94	92	83	62	51	50	54	60
29	83	91	93	83	---	91	82	61	52	48	54	68
30	84	95	94	e82	---	90	79	60	52	49	52	72
31	84	---	93	e80	---	90	---	59	---	49	54	---
TOTAL	2287	2795	2821	2748	2492	2928	2563	2137	1593	1596	1625	1938
MEAN	73.77	93.17	91.00	88.65	89.00	94.45	85.43	68.94	53.10	51.48	52.42	64.60
MAX	84	104	103	96	100	103	92	79	60	55	61	74
MIN	63	85	80	80	82	90	79	59	50	48	49	54
AC-FT	4540	5540	5600	5450	4940	5810	5080	4240	3160	3170	3220	3840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2002, BY WATER YEAR (WY)

	MEAN	86.25	91.11	86.72	89.13	96.32	110.3	119.7	87.01	71.16	67.99	74.70	77.51
MAX	145	140	133	131	135	243	412	163	174	135	139	119	
(WY)	1985	1985	1985	1985	1984	1997	1987	1985	1984	1984	1984	1984	1984
MIN	54.1	59.7	63.7	66.1	70.0	66.4	63.3	58.7	46.1	50.7	46.3	51.4	
(WY)	1980	1980	1979	1980	1980	1980	1980	1981	1980	1980	1980	1978	

09330000 FREMONT RIVER NEAR BICKNELL, UT--Continued

SUMMARY STATISTICS

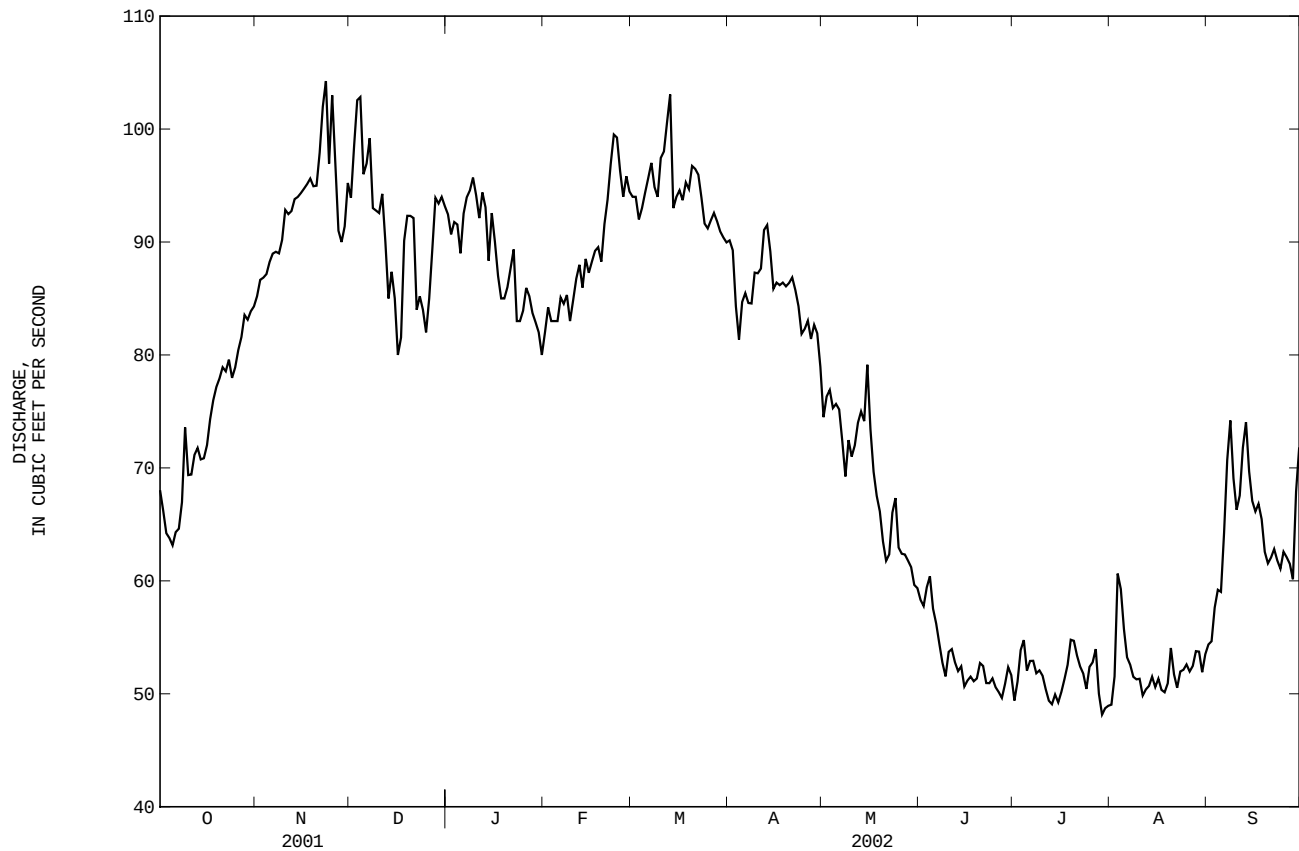
FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1977 - 2002

ANNUAL TOTAL	31056		27523			
ANNUAL MEAN	85.08		75.41		88.07	
HIGHEST ANNUAL MEAN					138	1985
LOWEST ANNUAL MEAN					60.2	1980
HIGHEST DAILY MEAN	443	Mar 24	104	Nov 23	965	Mar 21 1997
LOWEST DAILY MEAN	50	Jun 12	48	Jul 29	34	Jul 31 1986
ANNUAL SEVEN-DAY MINIMUM	54	Jun 12	50	Jul 11	38	Jul 29 1986
ANNUAL RUNOFF (AC-FT)	61600		54590		63810	
10 PERCENT EXCEEDS	100		95		115	
50 PERCENT EXCEEDS	81		81		83	
90 PERCENT EXCEEDS	61		51		56	

e Estimated



09330230 FREMONT RIVER NEAR CAINEVILLE, UT

LOCATION.--Lat 38°16'45", long 111°03'54"(corrected), in NE¹/₄NE¹/₄NE¹/₄ sec. 20, T. 29 S., R. 8 E., Wayne County, Hydrologic Unit 14070003, on right bank 2.3 mi downstream from Pleasant Creek, 4.5 mi southwest of Caineville, and 9.8 mi east of Fruita, Utah.

DRAINAGE AREA.--1,208 mi².

PERIOD OF RECORD.--March 1967 to current year.

GAGE.--Water-stage recorder. Crest-stage gage since July 11, 2001. Elevation of gage is 4,760 ft above NGVD of 1929, from topographic map. Prior to May 16, 1996 at site 500 ft upstream at datum 6.0 ft higher.

REMARKS. - -Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft³/s, Jul 24, 1984, gage height, 10.20 ft, from rating curve extended above 640 ft³/s on basis of slope-area measurement at gage heights of 6.90 ft and 7.20 ft datum then in use and slope-conveyance study; minimum discharge, 8 ft³/s, Jun 29, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 25	1920	1,580	7.31	Sep 12	0030	1,030	6.85
Aug 20	2235	*2,980	*8.25	Sep 12	1730	599	6.33

Minimum daily discharge, 16 ft³/s, Aug 15, 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	83	93	95	92	92	63	41	27	21	17	43
2	42	94	99	91	93	83	61	39	26	19	24	41
3	43	92	103	91	95	83	59	39	29	24	29	71
4	44	91	106	94	90	96	50	41	30	28	30	33
5	44	92	93	94	89	97	50	39	25	28	24	32
6	45	91	97	98	89	97	58	38	23	28	20	35
7	47	91	100	98	90	101	60	35	23	28	19	75
8	49	90	90	100	91	102	57	29	24	27	20	48
9	57	91	89	100	82	88	53	29	23	25	19	43
10	57	94	88	101	92	99	52	34	23	27	21	40
11	53	93	94	95	89	103	51	33	24	27	21	171
12	57	92	90	97	92	102	55	38	22	24	19	209
13	63	92	72	98	89	109	64	37	24	26	17	61
14	60	92	90	90	90	99	59	33	23	25	17	52
15	61	90	85	92	89	87	55	33	24	24	16	44
16	60	89	71	82	91	95	65	39	24	25	16	40
17	58	88	111	78	92	93	62	37	23	27	18	40
18	61	91	104	79	95	96	54	35	21	28	18	42
19	65	89	99	69	94	96	57	33	24	30	17	41
20	68	89	98	82	95	100	58	32	26	31	115	39
21	68	90	101	91	100	102	59	29	27	32	54	39
22	70	97	83	98	100	100	58	30	36	29	32	39
23	71	102	83	81	105	92	55	32	31	29	31	39
24	72	93	88	80	103	90	48	37	32	29	30	36
25	71	96	91	92	100	85	53	36	27	97	30	36
26	72	88	94	94	83	85	54	32	21	85	30	39
27	72	89	105	92	101	87	57	32	20	56	32	39
28	74	85	104	95	98	88	56	31	22	27	35	40
29	73	89	102	91	---	86	54	25	23	21	38	50
30	70	92	100	86	---	80	42	24	20	18	39	56
31	75	---	98	64	---	64	---	27	---	17	41	---
TOTAL	1866	2735	2921	2788	2609	2877	1679	1049	747	962	889	1613
MEAN	60.19	91.17	94.23	89.94	93.18	92.81	55.97	33.84	24.90	31.03	28.68	53.77
MAX	75	102	111	101	105	109	65	41	36	97	115	209
MIN	42	83	71	64	82	64	42	24	20	17	16	32
AC-FT	3700	5420	5790	5530	5170	5710	3330	2080	1480	1910	1760	3200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

MEAN	69.31	87.75	89.32	92.01	97.86	104.6	95.50	62.13	41.86	45.70	57.49	59.90
MAX	122	133	134	136	143	174	334	213	155	171	162	161
(WY)	1985	1985	1986	1985	1985	1997	1987	1973	1983	1985	1971	1997
MIN	38.0	58.6	66.7	60.2	82.5	79.3	50.5	26.6	20.4	23.0	24.0	23.8
(WY)	1980	1982	1969	1975	1979	1981	1996	1974	1997	1994	1978	1978

09330230 FREMONT RIVER NEAR CAINEVILLE, UT--Continued

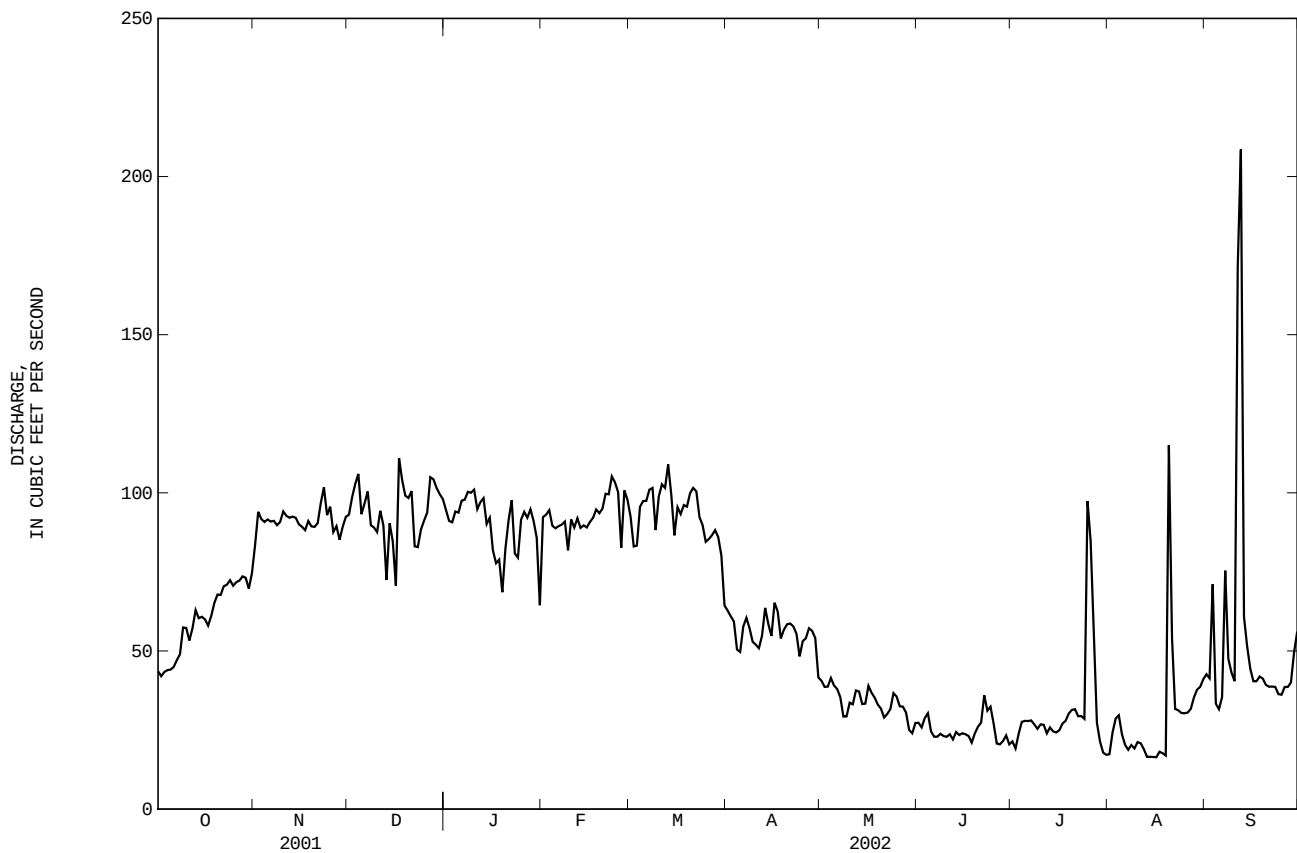
SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1968 - 2002

ANNUAL TOTAL	26918		22735		75.16	
ANNUAL MEAN	73.75		62.29		133	1985
HIGHEST ANNUAL MEAN					56.6	1978
LOWEST ANNUAL MEAN					1200	Jul 19 1985
HIGHEST DAILY MEAN	332	Mar 25	209	Sep 12	12	Jun 27 1980
LOWEST DAILY MEAN	19	Jun 12	16	Aug 15	13	Jun 9 1981
ANNUAL SEVEN-DAY MINIMUM	24	Jun 8	17	Aug 13		
ANNUAL RUNOFF (AC-FT)	53390		45090		54450	
10 PERCENT EXCEEDS	104		98		109	
50 PERCENT EXCEEDS	73		60		75	
90 PERCENT EXCEEDS	31		24		29	



DIRTY DEVIL RIVER BASIN

09330500 MUDDY CREEK NEAR EMERY, UT

LOCATION.--Lat 38°58'55", long 111°14'55", in NE¹/₄NW¹/₄ sec. 21, T. 21 S., R. 6 E., Emery County, Hydrologic Unit 14070002, on left bank 100 ft upstream from Emery Canal and 4.1 mi north of Emery.

DRAINAGE AREA.--105 mi².

PERIOD OF RECORD.--April to July 1909, July 1910 to July 1914, June 1949 to current year.

REVISED RECORDS.--WSP 1633: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,400 ft above NGVD of 1929, from topographic map. April 29 to July 31, 1909, reference point. July 23, 1910 to July 16, 1914, staff gages, at sites about 1 mi upstream at different datums. June 29, 1949 to May 1, 1957, water-stage recorder at site 100 ft upstream at datum 2.89 ft higher prior to March 20, 1953, and at datum 1.89 ft higher thereafter.

REMARKS.--Records fair except for estimated daily discharges, which are poor. One small diversion for irrigation and two storage reservoirs (total capacity 700 acre-ft) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft³/s, May 10, 1952, gage height, 11.14 ft, present datum from rating curve extended above 400 ft³/s, on basis of slope-area measurement of peak flow; no flow Apr 13-16, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	1630	*281	*3.31				

Minimum daily discharge, 4.6 ft³/s, Jan. 31.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	11	e5.5	e6.2	e4.9	e8.0	13	31	50	36	31	12
2	13	10	e5.8	e5.6	e4.9	e7.8	14	30	50	36	31	12
3	13	10	e6.0	e5.5	e5.2	e7.6	16	32	50	35	31	12
4	13	10	e6.0	e5.4	e5.4	e7.4	16	34	48	34	29	12
5	13	11	e6.0	e5.2	e5.4	e7.6	17	38	46	34	28	12
6	13	11	e6.2	e5.2	e5.7	e7.8	16	41	45	33	28	15
7	14	11	e6.4	e5.3	e6.0	e7.9	15	45	44	31	27	17
8	14	10	e6.4	e5.4	e6.2	e8.0	16	46	43	30	26	28
9	15	10	e6.4	e5.6	e6.4	e7.6	17	44	43	29	25	17
10	13	12	e6.6	e5.5	e6.4	e7.8	19	45	42	27	20	14
11	14	11	e6.4	e5.4	e6.4	e8.0	20	45	41	27	17	26
12	13	11	e6.2	e5.3	e6.8	e8.0	21	43	40	29	16	20
13	14	11	e6.0	e5.2	e7.0	e8.0	21	43	38	37	16	15
14	12	9.4	e6.2	e5.1	e7.1	e7.6	23	47	37	37	15	13
15	12	8.9	e6.8	e5.0	e7.2	e7.6	23	50	36	37	14	12
16	12	9.7	e6.1	e4.9	e7.2	e7.8	20	53	36	37	14	13
17	12	9.9	e6.3	e4.9	e7.4	e8.0	20	55	35	38	14	19
18	12	10	e6.3	e4.9	e7.6	e8.0	19	58	35	37	14	14
19	12	7.3	e6.4	e4.7	e7.6	e7.7	18	61	36	37	14	12
20	12	e6.9	e6.6	e5.0	e7.9	e8.3	18	62	36	37	15	11
21	11	e6.9	e6.6	e5.4	e7.9	8.5	17	62	35	36	15	11
22	11	e7.1	e6.6	e5.4	e8.0	9.5	18	60	35	36	13	10
23	11	e6.9	e6.3	e5.2	e8.3	9.8	19	57	34	35	13	10
24	9.8	e6.5	e5.8	e5.0	e8.3	8.2	22	54	33	35	12	10
25	9.7	e7.1	e5.8	e5.2	e7.8	7.8	24	52	33	35	12	10
26	11	e6.7	e5.6	e5.4	e7.4	8.0	28	51	32	35	12	10
27	11	e6.3	e5.6	e5.6	e7.6	8.8	27	49	32	34	12	9.8
28	11	e6.3	e5.8	e5.4	e7.8	9.9	25	49	34	33	12	10
29	11	e6.3	e6.2	e5.1	---	10	27	49	38	32	13	12
30	11	e5.9	e6.3	e4.8	---	11	30	49	37	32	12	11
31	12	---	e6.6	e4.6	---	12	---	49	---	32	12	---
TOTAL	379.5	267.1	191.8	162.4	191.8	260.0	599	1484	1174	1053	563	409.8
MEAN	12.24	8.903	6.187	5.239	6.850	8.387	19.97	47.87	39.13	33.97	18.16	13.66
MAX	15	12	6.8	6.2	8.3	12	30	62	50	38	31	28
MIN	9.7	5.9	5.5	4.6	4.9	7.4	13	30	32	27	12	9.8
AC-FT	753	530	380	322	380	516	1190	2940	2330	2090	1120	810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911-13, 1950-2002, BY WATER YEAR (WY)

MEAN	18.18	11.94	9.406	8.377	8.895	12.61	32.23	103.7	123.6	69.42	40.49	26.00
MAX	60.9	34.8	22.6	22.0	24.6	37.7	112	306	330	239	104	59.7
(WY)	1985	1985	1985	1998	1998	1911	1985	1952	1983	1983	1983	1983
MIN	4.78	3.73	2.00	2.00	3.09	4.15	7.84	14.2	15.7	17.1	7.55	9.58
(WY)	1978	1912	1912	1911	1911	1995	1967	1977	1977	1977	1977	1977

09330500 MUDDY CREEK NEAR EMERY, UT--Continued

SUMMARY STATISTICS

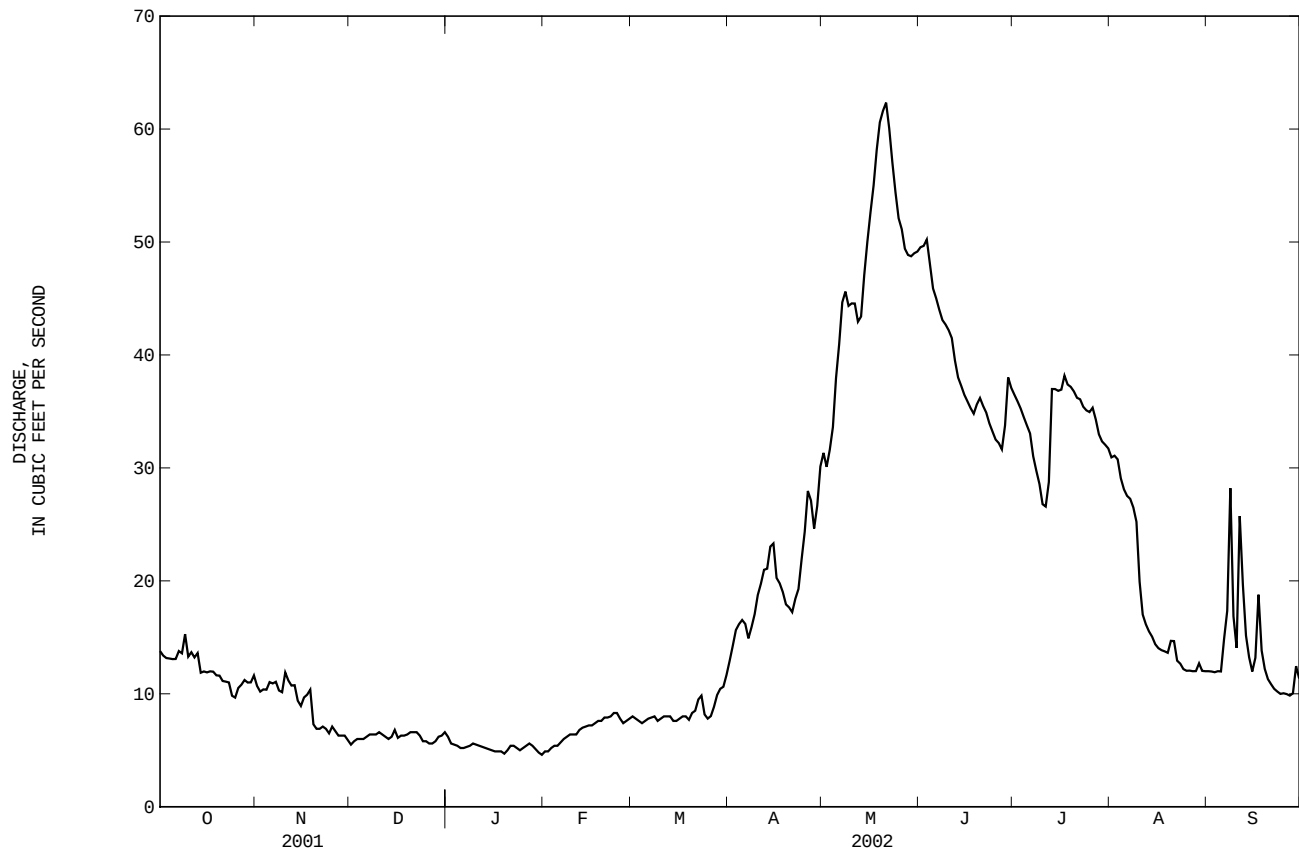
FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1911-13, 1950-2002

ANNUAL TOTAL	11943.6		6735.4			
ANNUAL MEAN	32.72		18.45			
HIGHEST ANNUAL MEAN					38.45	
LOWEST ANNUAL MEAN					86.1	1983
HIGHEST DAILY MEAN	140	May 27	62	May 20	9.40	1977
LOWEST DAILY MEAN	5.5	Dec 1	4.6	Jan 31	0.00	Apr 13 1911
ANNUAL SEVEN-DAY MINIMUM	5.9	Dec 23	4.9	Jan 14	1.0	Apr 10 1911
ANNUAL RUNOFF (AC-FT)	23690		13360		27860	
10 PERCENT EXCEEDS	89		41		98	
50 PERCENT EXCEEDS	15		12		17	
90 PERCENT EXCEEDS	6.6		5.6		7.0	

e Estimated



DIRTY DEVIL RIVER BASIN

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT

LOCATION.--Lat 38°05'39", long 110°24'24", in SE¹/₄SW¹/₄SE¹/₄ sec. 20, T. 31 S., R.14 E., Garfield County, Hydrologic Unit 14070004, on right bank 0.25 mi upstream from Poison Spring Wash and 25.5 mi southeast of Hanksville.

DRAINAGE AREA.--4,159 mi².

PERIOD OF RECORD.--June 1948 to September 30, 1993, May 2, 2001 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area. WDR UT-80-1: 1979, 1977-79(P).

GAGE.--Water-stage recorder. Elevation of gage is 3,850 ft above NGVD of 1929, from topographic map. Prior to July 15, 1964, at site 28 mi downstream at different datum. July 15, 1964 to December 14, 1976, approximately 1,200 ft upstream at datum 4.83 ft higher. December 15, 1976 to September 30, 1980 at site 400 ft upstream at datum 4.28 ft higher.

REMARKS.--Records poor. Many diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 35,000 ft³/s Nov 4, 1957, gage height, 28.1 from floodmarks, site and datum then in use, from rating curve extended above 9,000 ft³/s on basis of slope-area measurement at gage height 20.65; no flow at times many years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 12	1715	*6,320	*12.94				

No flow many days in Jun and Jul.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e22	86	114	143	e102	125	85	36	e7.0	0.00	e8.0	e3.0
2	24	84	116	143	e102	125	78	33	e6.0	0.00	e3.0	e3.0
3	26	79	e110	139	e105	119	83	e27	e6.0	0.00	e15	e3.0
4	27	82	e115	140	e105	114	76	e24	e6.0	0.00	e50	e3.0
5	28	84	e110	132	e105	113	78	e23	e10	0.00	e30	e3.0
6	31	89	e110	127	e100	113	75	e22	15	0.00	e15	e3.0
7	34	95	e115	137	e100	116	74	e21	11	0.00	e12	e5.0
8	35	92	e110	141	e103	120	76	e20	e7.0	0.00	e9.0	e10
9	36	91	124	150	e105	124	74	e19	e6.0	0.00	e6.0	79
10	40	94	117	144	e108	115	66	e18	e5.0	0.00	e5.0	42
11	48	103	115	141	e105	111	70	e17	e4.0	0.00	e4.0	27
12	53	103	115	134	e110	113	73	e16	e3.0	0.00	e3.0	2330
13	49	109	e105	128	e110	111	63	e15	e2.0	0.00	e3.0	1460
14	47	114	e85	126	e120	114	58	e14	e1.0	0.00	e3.0	e350
15	49	115	e80	121	131	113	62	12	e0.00	0.00	e3.0	e150
16	54	e117	e82	e105	128	102	57	13	e0.00	0.00	e3.0	e110
17	57	119	e85	e100	127	104	51	12	e0.00	0.00	e2.5	e90
18	59	120	e90	e90	130	105	47	12	e0.00	0.00	e2.5	e85
19	54	122	e92	e85	134	100	54	e8.0	e0.00	0.00	e2.5	e80
20	55	130	105	e88	137	100	48	e6.0	e0.00	0.00	e2.5	e70
21	56	e125	114	e90	133	99	44	e5.5	e0.00	0.00	e2.5	e60
22	59	e124	111	e90	133	104	47	e5.5	e0.00	0.00	e2.0	e55
23	63	e120	111	e95	129	101	45	e6.0	e0.00	0.00	e2.0	e50
24	68	e120	e95	e96	134	96	46	e6.0	e0.00	0.00	e2.0	e50
25	69	e120	e87	e99	135	94	43	e5.5	e0.00	0.00	e2.0	e50
26	72	e120	e89	e102	131	89	42	e6.0	0.00	0.00	e2.0	e45
27	66	115	e95	e105	126	88	37	e8.0	0.00	e450	e2.5	e45
28	73	111	110	e108	121	90	38	11	0.00	148	e2.5	e45
29	73	108	120	116	---	91	39	9.7	0.00	62	e2.5	e50
30	79	107	132	125	---	84	34	e7.0	0.00	21	e2.5	533
31	78	---	145	e112	---	82	---	9.9	---	e10	e2.5	---
TOTAL	1584	3198	3304	3652	3309	3275	1763	448.1	89.00	691.00	207.0	5889.0
MEAN	51.10	106.6	106.6	117.8	118.2	105.6	58.77	14.45	2.967	22.29	6.677	196.3
MAX	79	130	145	150	137	125	85	36	15	450	50	2330
MIN	22	79	80	85	100	82	34	5.5	0.00	0.00	2.0	3.0
AC-FT	3140	6340	6550	7240	6560	6500	3500	889	177	1370	411	11680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949-1993, 2001-2002, BY WATER YEAR (WY)

	MEAN	98.03	126.4	96.60	98.21	135.7	137.6	106.4	82.42	67.76	55.92	92.29	89.33
MAX	666	1059	174	158	277	320	384	280	549	277	538	635	
(WY)	1958	1958	1985	1950	1978	1949	1985	1958	1983	1950	1957	1961	
MIN	25.6	52.5	22.8	33.5	43.5	68.9	15.8	1.34	0.000	0.000	0.16	0.23	
(WY)	1956	1978	1979	1979	1979	1967	1967	1972	1977	1991	1960	1979	

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT--Continued

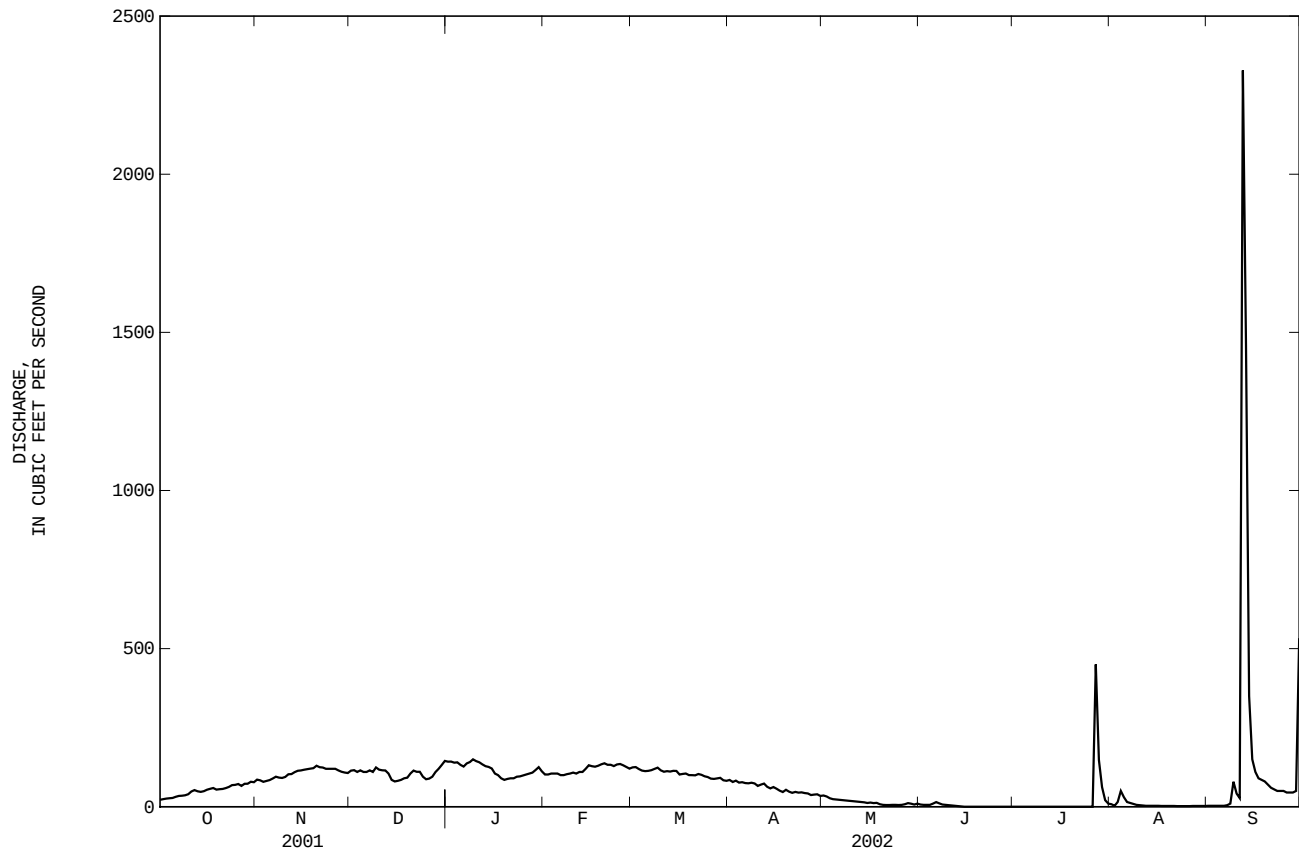
SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 1949-1993, 2001-2002

ANNUAL TOTAL	27409.10			
ANNUAL MEAN	75.09		98.89	
HIGHEST ANNUAL MEAN			250	1958
LOWEST ANNUAL MEAN			51.1	1956
HIGHEST DAILY MEAN	2330	Sep 12	14000	Nov 4 1957
LOWEST DAILY MEAN	0.00	Jun 15	0.00	Jun 5 1954
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 15	0.00	Jul 1 1960
ANNUAL RUNOFF (AC-FT)	54370		71640	
10 PERCENT EXCEEDS	126		175	
50 PERCENT EXCEEDS	66		78	
90 PERCENT EXCEEDS	0.00		1.5	

e Estimated



DIRTY DEVIL RIVER BASIN

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT--Continued

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	e10	e7.0	25
2	---	---	---	---	---	---	---	e54	27	e9.0	e7.0	27
3	---	---	---	---	---	---	---	56	24	e8.0	e15	26
4	---	---	---	---	---	---	---	79	24	e7.0	e70	28
5	---	---	---	---	---	---	---	95	22	e6.0	e100	e23
6	---	---	---	---	---	---	---	77	19	e5.0	e60	e21
7	---	---	---	---	---	---	---	71	15	e4.5	e50	e21
8	---	---	---	---	---	---	---	69	e10	e4.5	e45	e21
9	---	---	---	---	---	---	---	61	e8.0	e4.0	e60	e20
10	---	---	---	---	---	---	---	55	e6.0	e4.0	e120	e20
11	---	---	---	---	---	---	---	55	e4.0	e4.5	e45	23
12	---	---	---	---	---	---	---	53	e3.0	e4.5	e40	24
13	---	---	---	---	---	---	---	52	e2.2	e4.5	e45	e21
14	---	---	---	---	---	---	---	45	e2.0	e4.5	e45	e20
15	---	---	---	---	---	---	---	54	e2.1	12	e40	e25
16	---	---	---	---	---	---	---	52	e2.1	16	e42	37
17	---	---	---	---	---	---	---	52	e2.1	19	e44	36
18	---	---	---	---	---	---	---	49	e2.2	26	e44	48
19	---	---	---	---	---	---	---	47	e2.2	e20	e46	35
20	---	---	---	---	---	---	---	51	e2.2	17	e48	30
21	---	---	---	---	---	---	---	45	e2.2	e9.0	e50	26
22	---	---	---	---	---	---	---	44	e2.2	e7.0	1480	25
23	---	---	---	---	---	---	---	42	e2.3	e6.5	416	24
24	---	---	---	---	---	---	---	40	e2.3	e6.0	90	27
25	---	---	---	---	---	---	---	46	e2.3	e6.0	60	27
26	---	---	---	---	---	---	---	44	e2.3	e6.5	53	25
27	---	---	---	---	---	---	---	41	e2.4	e157	39	25
28	---	---	---	---	---	---	---	44	e20	e40	34	e22
29	---	---	---	---	---	---	---	41	26	e7.0	30	e21
30	---	---	---	---	---	---	---	35	19	e6.5	26	e21
31	---	---	---	---	---	---	---	35	---	e7.0	24	---
TOTAL	---	---	---	---	---	---	---	---	290.1	448.5	3275.0	774
MEAN	---	---	---	---	---	---	---	---	9.670	14.47	105.6	25.80
MAX	---	---	---	---	---	---	---	---	30	157	1480	48
MIN	---	---	---	---	---	---	---	---	2.0	4.0	7.0	20
AC-FT	---	---	---	---	---	---	---	---	575	890	6500	1540

e Estimated

LOCATION.--Lat 37°51'45", long 111°38'07", in SW¹/₄NE¹/₄SW¹/₄ sec. 12, T. 34 S., R. 2 E., Garfield County, Hydrologic Unit 14070005, Dixie National Forest, on right bank 0.1 mi downstream from "The Box" canyon, 0.2 mi upstream from unnamed right bank tributary. and 7.0 mi north of Escalante.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 27	1405	139	3.65	Sep 7	0705	*203	*4.14

Minimum daily discharge 0.72 ft³/s, Jul 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	4.2	e1.6	e2.2	e3.5	e2.5	3.0	2.5	1.3	0.72	1.2	1.0
2	5.2	4.3	e1.8	e2.2	e3.5	e2.4	3.0	2.7	1.3	0.74	1.3	1.0
3	5.2	4.3	e2.0	e2.2	e3.5	e2.3	3.0	2.8	1.8	1.0	1.6	1.1
4	5.2	4.3	e1.9	e2.2	e3.6	e2.4	2.9	2.8	1.8	1.0	1.4	1.1
5	5.2	4.3	e1.8	e2.2	e3.7	e2.6	2.8	2.6	1.6	0.90	1.2	1.1
6	5.3	4.3	e1.8	e2.5	e3.3	e2.9	2.6	3.4	1.5	1.0	1.1	1.4
7	5.5	4.3	e1.8	e2.8	e3.0	e3.1	2.4	4.0	1.4	0.97	1.1	22
8	5.6	4.3	e1.8	e3.2	e3.0	e3.0	2.3	4.1	1.3	0.79	1.1	3.1
9	5.8	4.4	e1.8	e3.7	e3.2	e2.6	2.3	4.2	1.2	1.1	1.0	2.4
10	4.4	4.8	e1.7	3.7	e3.5	e2.6	2.2	4.2	1.3	1.2	0.96	2.1
11	4.3	4.6	e1.6	3.8	e3.5	e2.7	2.2	4.2	1.4	1.1	0.92	3.1
12	4.3	4.4	e1.6	3.9	e3.5	e2.8	2.3	4.4	1.3	1.3	0.90	3.4
13	4.3	4.5	e1.6	3.7	e3.5	e3.0	2.3	4.0	1.3	0.90	0.89	2.3
14	4.1	4.4	e1.6	e3.5	e3.5	e3.0	2.1	3.8	1.2	0.86	0.86	2.1
15	4.1	4.4	e1.6	e3.6	e3.4	e3.0	2.1	3.7	1.2	0.98	0.85	1.9
16	4.0	4.4	e1.6	e3.6	e3.4	e3.0	2.1	3.6	1.1	1.1	0.85	1.9
17	4.0	4.4	e1.7	e3.5	e3.2	e3.0	2.2	3.4	1.1	1.2	0.83	1.9
18	4.0	4.4	e1.8	e3.6	e3.0	e2.8	2.1	3.2	1.1	1.7	0.83	1.9
19	4.0	4.2	e2.0	e3.6	e3.0	e2.5	2.1	2.9	1.1	1.7	0.83	1.9
20	4.0	4.3	e2.2	e2.7	e2.8	e2.2	2.1	2.7	1.0	1.9	1.3	1.9
21	4.0	5.1	e2.0	e1.8	e2.9	e2.4	2.3	2.5	0.87	2.1	1.1	1.9
22	4.1	4.8	e1.8	e1.7	e3.0	e2.7	2.4	2.6	0.96	1.6	0.99	1.9
23	4.0	4.3	e1.7	e1.7	e3.0	e2.6	2.1	2.6	0.92	1.6	0.99	1.9
24	4.0	4.3	e1.5	e1.7	e3.0	e2.5	2.0	2.5	0.87	1.5	0.96	1.8
25	4.1	e2.2	e1.5	e1.7	e2.9	e2.4	1.9	2.3	0.84	1.6	0.96	1.8
26	4.1	e1.8	e1.5	e1.8	e2.8	e2.3	1.9	1.9	0.83	2.3	0.94	1.9
27	4.1	e1.5	e1.5	e2.2	e2.7	e2.2	2.3	1.9	0.81	4.0	0.92	1.8
28	4.1	e1.7	e1.6	e2.6	e2.6	2.4	2.9	1.8	0.80	1.9	0.94	1.9
29	4.1	e1.8	e1.7	e3.2	---	2.4	2.8	1.6	0.79	1.6	0.99	3.6
30	4.0	e1.6	e1.8	e3.4	---	2.4	2.5	1.4	0.77	1.5	1.1	2.5
31	4.1	---	e2.0	e3.4	---	2.6	---	1.3	---	1.3	1.0	---
TOTAL	138.4	116.6	53.9	87.6	89.5	81.3	71.2	91.6	34.76	43.16	31.91	79.6
MEAN	4.465	3.887	1.739	2.826	3.196	2.623	2.373	2.955	1.159	1.392	1.029	2.653
MAX	5.8	5.1	2.2	3.9	3.7	3.1	3.0	4.4	1.8	4.0	1.6	22
MIN	4.0	1.5	1.5	1.7	2.6	2.2	1.9	1.3	0.77	0.72	0.83	1.0
AC-FT	275	231	107	174	178	161	141	182	69	86	63	150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-55, 1958-2002, BY WATER YEAR (WY)

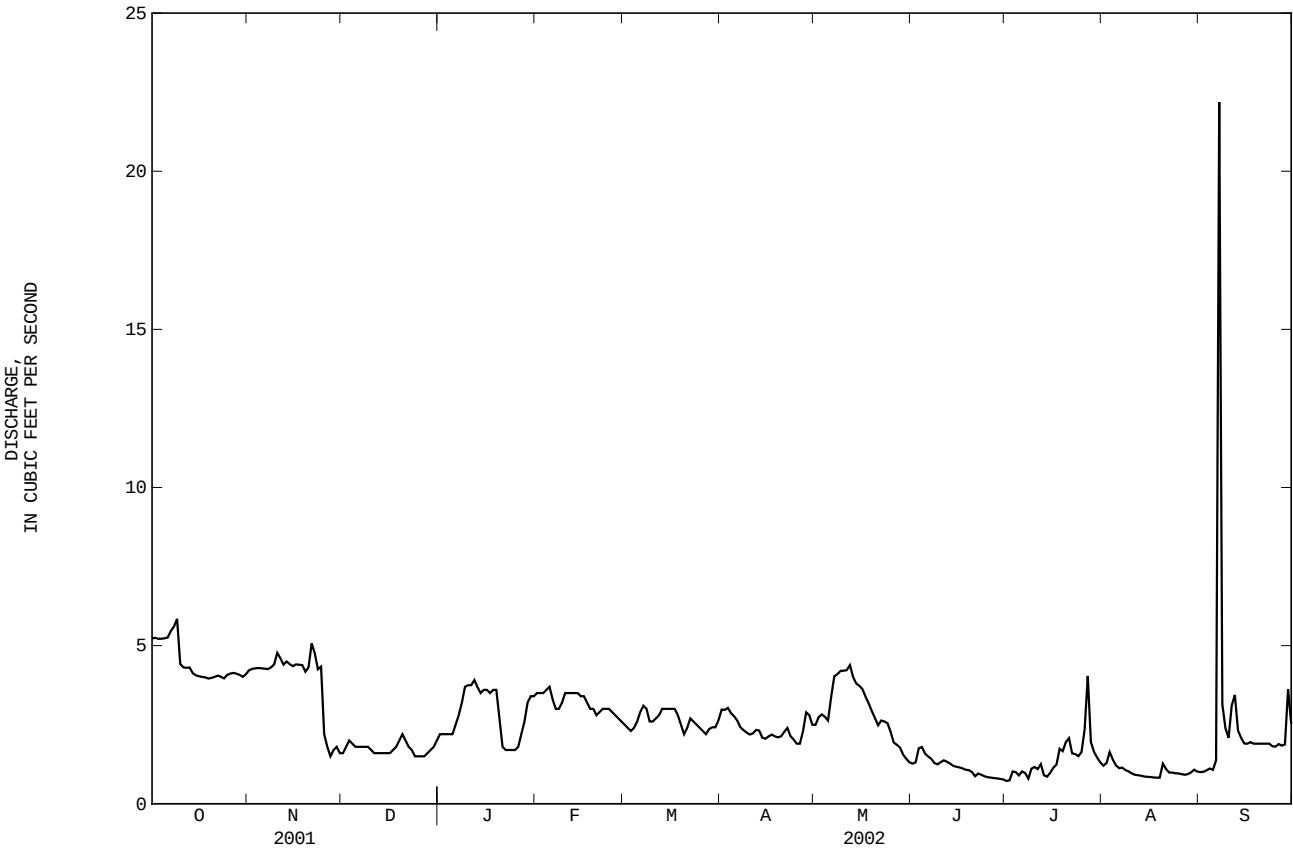
MEAN	3.146	2.887	2.279	2.257	2.278	2.791	6.891	17.15	7.192	5.589	4.887	4.174
MAX	9.65	8.09	6.25	6.20	6.70	6.78	28.9	50.9	34.5	25.4	15.2	16.5
(WY)	1999	1999	1984	1999	1984	1999	1987	1958	1983	1983	1983	1998
MIN	0.000	0.000	0.000	0.045	0.039	0.052	0.070	0.21	0.000	0.000	0.000	0.000
(WY)	1965	1965	1965	1965	1965	1965	1977	1977	1977	1955	1954	1955

ESCALANTE RIVER BASIN

09337000 PINE CREEK NEAR ESCALANTE, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1951-55, 1958-2002
ANNUAL TOTAL	2319.8	919.53	
ANNUAL MEAN	6.356	2.519	5.150
HIGHEST ANNUAL MEAN			12.5 1983
LOWEST ANNUAL MEAN			0.62 1977
HIGHEST DAILY MEAN	61 May 13	22 Sep 7	205 May 18 1964
LOWEST DAILY MEAN	1.5 Nov 27	0.72 Jul 1	0.00 Mar 12 1954
ANNUAL SEVEN-DAY MINIMUM	1.6 Dec 23	0.78 Jun 26	0.00 Jun 17 1954
ANNUAL RUNOFF (AC-FT)	4600	1820	3730
10 PERCENT EXCEEDS	8.8	4.3	9.4
50 PERCENT EXCEEDS	5.2	2.3	3.1
90 PERCENT EXCEEDS	2.0	1.00	0.60

e Estimated



09337500 ESCALANTE RIVER NEAR ESCALANTE, UT

LOCATION.--Lat 37°46'41", long 111°34'26", in NE¹/₄NW¹/₄SE¹/₄ sec. 9, T. 35 S., R. 3 E., Garfield County, Hydrologic Unit 14070005, Bureau of Land Management, on left bank 150 ft downstream from Pine Creek and 1.5 mi northeast of Escalante.

DRAINAGE AREA.--320 mi².

PERIOD OF RECORD.--August 1909 to April 1913, October 1942 to September 1955, December 1971 to current year. Published as Escalante Creek near Escalante 1909-13.

REVISED RECORDS.--WSP 1149: 1943(M), 1944, 1945(M). WDR UT-73-1: 1972.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,670 ft above NGVD of 1929, from topographic map. Prior to April 30, 1913, staff at approximately same site at different datum.

REMARKS.--Records fair except for daily discharges less than 2.0 ft³/s and estimated daily discharges, which are poor. Regulation of low flows by diversion into Wide Hollow Reservoir (an off-stream storage site about 4 mi upstream; capacity about 2,300 acre-feet) and by diversion on Pine Creek for irrigation of about 2,300 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,550 ft³/s, Aug 24, 1998, gage height, 11.05 ft, from rating curve extended above 150 ft³/s on basis of slope-area measurements at gage heights, 5.31 ft, 6.25 ft, 7.59 ft, and 11.05 ft; minimum daily, 0.07 ft³/s, Jul 11, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 716 ft³/s, Jul 23, gage height, 4.70 ft; minimum daily discharge, 0.18 ft³/s, Aug 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	6.2	5.0	e4.5	e9.0	6.0	2.2	1.3	0.48	0.25	0.50	0.22
2	1.2	6.2	5.4	e4.1	e10	4.5	2.3	1.5	0.53	0.24	e0.70	0.22
3	1.1	5.9	6.0	e4.1	e11	3.3	3.3	1.6	0.88	0.25	e0.60	1.9
4	1.1	5.9	6.4	e4.8	e12	5.6	2.1	1.6	1.1	0.29	e0.50	0.79
5	1.1	5.9	6.2	6.4	e13	4.7	1.9	1.6	0.82	0.31	e0.46	0.50
6	1.2	5.9	8.5	5.3	e13	7.0	1.9	1.5	0.80	0.35	e0.43	0.68
7	1.1	6.0	6.2	5.3	e5.5	5.7	1.9	1.6	0.97	0.36	e0.38	22
8	2.2	6.2	5.8	5.2	7.1	4.4	1.9	1.4	0.70	0.24	e0.35	9.2
9	1.9	6.3	5.9	5.1	9.6	5.5	1.9	1.2	0.59	0.23	e0.32	1.1
10	2.1	6.6	5.7	5.1	10	4.2	1.8	1.2	0.61	0.24	e0.28	0.58
11	2.0	6.5	5.8	4.8	9.9	4.7	1.8	1.1	0.65	0.23	e0.26	0.53
12	2.0	6.2	e5.0	6.0	12	4.7	1.9	1.1	0.71	0.21	e0.24	3.7
13	2.7	6.4	e4.2	5.3	11	6.7	1.9	1.3	0.70	0.20	e0.23	0.98
14	3.3	6.5	e4.7	4.6	11	6.0	1.8	1.4	0.68	0.20	e0.20	0.48
15	2.9	6.5	e4.7	5.5	11	5.3	1.9	1.4	0.56	0.25	0.20	0.40
16	3.4	6.5	e4.6	4.9	9.9	5.7	1.9	1.4	0.41	0.40	0.21	0.40
17	3.8	6.5	e5.0	e3.4	9.1	5.5	1.8	1.3	0.39	0.93	0.20	0.40
18	4.0	6.5	e4.5	e3.0	8.8	5.8	1.8	1.2	0.41	1.1	e0.22	0.40
19	4.0	6.2	e3.5	e2.6	8.3	5.4	1.6	1.2	0.41	0.64	e0.20	0.40
20	2.5	5.5	e3.4	e2.6	8.8	3.0	1.6	1.1	0.35	0.56	e0.60	0.39
21	2.5	6.7	e3.4	e3.5	8.6	5.8	1.7	1.1	0.41	0.56	e0.36	0.39
22	3.2	7.1	e3.4	e4.8	8.4	4.9	1.9	1.2	0.66	0.52	0.21	0.39
23	4.3	6.6	e3.3	e5.7	8.5	2.7	1.8	1.2	0.73	15	0.22	0.39
24	4.7	5.3	e3.1	e5.0	8.7	2.6	1.8	1.2	0.71	7.8	0.23	0.39
25	4.9	7.0	e3.0	e5.4	8.4	2.6	1.8	0.91	0.69	1.2	0.23	0.38
26	5.1	4.9	e3.3	e5.4	9.1	2.6	1.8	0.68	0.68	2.3	0.22	0.39
27	4.6	4.6	e3.3	e5.0	7.5	2.5	1.8	0.69	0.67	2.6	0.19	0.39
28	5.0	4.1	e3.3	e7.0	7.4	2.4	1.8	0.61	0.66	0.55	0.18	0.44
29	6.0	4.2	e3.8	e7.0	---	2.2	1.8	0.54	0.45	0.36	0.19	7.2
30	6.2	4.6	e4.6	e8.0	---	2.4	1.6	0.55	0.26	0.36	0.22	2.7
31	6.2	---	e4.7	e8.0	---	2.2	---	0.55	---	0.36	0.23	---
TOTAL	97.5	179.5	145.7	157.4	266.6	136.6	57.0	36.23	18.67	39.09	9.56	58.33
MEAN	3.145	5.983	4.700	5.077	9.521	4.406	1.900	1.169	0.622	1.261	0.308	1.944
MAX	6.2	7.1	8.5	8.0	13	7.0	3.3	1.6	1.1	15	0.70	22
MIN	1.1	4.1	3.0	2.6	5.5	2.2	1.6	0.54	0.26	0.20	0.18	0.22
AC-FT	193	356	289	312	529	271	113	72	37	78	19	116

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943-55, 1973-2002, BY WATER YEAR (WY)

	MEAN	7.698	6.935	7.262	8.533	10.45	12.48	13.82	23.01	17.95	6.162	8.455	7.116
MAX	29.9	23.8	18.1	26.4	23.8	39.7	54.8	124	125	30.5	30.8	39.4	
(WY)	1973	1988	1943	1950	1943	1989	1993	1973	1983	1944	1983	1998	
MIN	0.90	0.80	0.77	0.96	1.21	0.67	1.23	0.88	0.48	0.47	0.31	0.73	
(WY)	1991	1991	1991	1991	1993	1991	1990	1954	1990	1978	2002	1955	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1943-55, 1973-2002

ANNUAL TOTAL	4801.4	1202.18	
ANNUAL MEAN	13.15	3.294	
HIGHEST ANNUAL MEAN			10.97
LOWEST ANNUAL MEAN			30.7
HIGHEST DAILY MEAN	117	May 19	22
LOWEST DAILY MEAN	1.1	Sep 29	0.18
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 29	0.21
ANNUAL RUNOFF (AC-FT)	9520		2380
10 PERCENT EXCEEDS	28		7.0
50 PERCENT EXCEEDS	5.5		2.2
90 PERCENT EXCEEDS	1.6		0.32

e Estimated

ESCALANTE RIVER BASIN

09338900 DEER CREEK NEAR BOULDER, UT

LOCATION.--Lat 37°51'12", long 111°21'16", in NW¹/₄SE¹/₄NE¹/₄ sec. 16, T. 34 S., R. 5 E., Garfield County, Hydrologic Unit 14070005, Grand Staircase Escalante National Monument, on right bank 150 ft downstream from Burr Trail crossing and 6.3 mi east of Boulder.

DRAINAGE AREA.--62.7 mi².

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximums, water years 1959-74. September 2001 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,670 ft above NGVD of 1929, from topographic map. July 8, 1959 to September 30, 1974, crest-stage gage at site 160 ft downstream on left bank at datum 8.00 ft higher.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft³/s, Aug 3, 1961, gage height, 14.00 ft, from rating curve extended above about 5 ft³/s on basis of slope-area measurements at gage heights 11.50 ft, 12.50 ft, and 14.00 ft (datum then in use); minimum daily, some flow in most years but dry on occasion.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,540 ft³/s, Sep 11, gage height, 7.90 ft; minimum daily discharge, 3.8 ft³/s, Jun 28, Jul 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4.8	17	9.8	10	9.2	8.8	6.7	5.7	4.8	3.8	4.0	4.7
2	e4.8	17	8.9	9.8	9.3	7.8	6.1	5.8	4.8	3.9	19	4.5
3	e4.9	18	8.8	10	9.4	8.2	6.0	5.8	4.9	4.5	6.3	4.6
4	4.8	18	9.4	10	9.2	9.6	6.0	5.7	4.8	4.4	4.6	4.7
5	5.0	19	10	9.9	9.5	11	6.0	5.6	4.6	4.3	4.3	4.6
6	5.0	18	10	10	9.4	10	5.9	5.6	4.5	4.2	4.4	5.3
7	5.2	17	8.7	10	9.5	9.5	6.0	5.5	4.3	4.0	4.3	49
8	5.6	9.7	9.9	11	9.7	9.2	6.0	5.4	4.2	4.0	e4.3	7.7
9	5.7	12	10	11	9.5	9.9	6.0	5.5	4.2	5.2	e4.3	5.6
10	5.6	11	10	10	9.6	11	6.0	5.5	4.4	4.4	e4.4	5.4
11	5.7	10	9.2	9.5	9.5	10	6.0	5.5	4.4	4.1	e4.3	72
12	5.8	10	9.4	11	9.5	11	6.2	5.4	4.4	4.0	e4.2	87
13	5.9	11	8.5	10	9.8	11	6.3	5.5	4.1	3.9	e4.2	34
14	5.9	10	7.8	9.5	9.8	10	6.0	5.5	4.2	4.1	e4.0	22
15	5.8	10	8.2	11	10	13	6.1	5.4	4.2	4.1	e4.0	7.5
16	e5.7	11	8.1	9.3	10	13	6.0	5.3	4.2	4.3	e4.1	8.4
17	e6.0	10	7.9	8.6	10	11	6.0	5.2	4.0	4.3	e4.2	14
18	e6.0	10	9.6	8.1	10	9.9	6.0	5.0	4.1	4.5	e4.4	7.8
19	e5.6	10	10	7.5	11	9.8	6.0	4.9	4.0	4.4	e4.0	7.5
20	e4.7	10	11	7.8	12	e9.8	6.2	4.9	4.1	4.3	e20	6.9
21	e4.6	9.4	11	8.6	12	9.9	6.4	5.0	4.0	4.5	e7.0	6.9
22	e5.3	9.3	10	9.5	10	9.8	6.2	5.1	4.0	4.2	4.6	6.4
23	e5.6	8.8	10	9.1	8.5	9.5	6.0	5.3	4.1	4.1	4.5	5.7
24	e6.0	9.1	10	8.2	8.4	7.1	5.9	5.3	3.9	4.2	4.7	5.3
25	e6.2	12	10	8.8	8.2	6.7	6.0	5.3	3.9	4.2	4.6	5.3
26	6.6	10	10	9.5	8.5	7.1	6.0	5.2	3.9	5.0	4.6	5.3
27	6.8	8.7	10	9.9	10	7.4	6.0	5.1	3.9	7.0	4.3	5.2
28	6.7	8.2	10	10	10	7.6	5.8	5.1	3.8	4.5	4.4	5.6
29	8.9	7.9	10	9.9	---	12	5.7	5.0	3.9	4.2	4.5	55
30	16	8.8	11	9.9	---	6.8	5.8	4.9	3.9	4.0	4.4	8.4
31	19	---	10	9.2	---	7.7	---	4.9	---	3.9	4.6	---
MEAN	6.458	11.70	9.587	9.568	9.696	9.519	6.043	5.319	4.217	4.339	5.468	15.74
MAX	19	19	11	11	12	13	6.7	5.8	4.9	7.0	20	87
MIN	4.6	7.9	7.8	7.5	8.2	6.7	5.7	4.9	3.8	3.8	4.0	4.5

e Estimated

09338900 DEER CREEK NEAR BOULDER, UT--Continued
(WATER YEAR 2001)

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,850 ft³/s, Sep 16, gage height, 9.19 ft; minimum daily discharge, 4.2 ft³/s, Sep 6, 7, 10.

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	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	e4.2
7	---	---	---	---	---	---	---	---	---	---	---	4.2
8	---	---	---	---	---	---	---	---	---	---	---	4.3
9	---	---	---	---	---	---	---	---	---	---	---	4.3
10	---	---	---	---	---	---	---	---	---	---	---	4.2
11	---	---	---	---	---	---	---	---	---	---	---	4.3
12	---	---	---	---	---	---	---	---	---	---	---	4.4
13	---	---	---	---	---	---	---	---	---	---	---	7.3
14	---	---	---	---	---	---	---	---	---	---	---	4.9
15	---	---	---	---	---	---	---	---	---	---	---	5.0
16	---	---	---	---	---	---	---	---	---	---	---	245
17	---	---	---	---	---	---	---	---	---	---	---	11
18	---	---	---	---	---	---	---	---	---	---	---	6.1
19	---	---	---	---	---	---	---	---	---	---	---	5.5
20	---	---	---	---	---	---	---	---	---	---	---	5.1
21	---	---	---	---	---	---	---	---	---	---	---	5.0
22	---	---	---	---	---	---	---	---	---	---	---	4.9
23	---	---	---	---	---	---	---	---	---	---	---	4.8
24	---	---	---	---	---	---	---	---	---	---	---	4.7
25	---	---	---	---	---	---	---	---	---	---	---	4.8
26	---	---	---	---	---	---	---	---	---	---	---	4.7
27	---	---	---	---	---	---	---	---	---	---	---	4.8
28	---	---	---	---	---	---	---	---	---	---	---	4.8
29	---	---	---	---	---	---	---	---	---	---	---	4.8
30	---	---	---	---	---	---	---	---	---	---	---	e4.8
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

e Estimated

SAN JUAN RIVER BASIN

09372400 NORTH CREEK NEAR MONTICELLO, UT

LOCATION.--Lat 37°52'36", long 109°26'43", in SW¹/₄NW¹/₄SW¹/₄ sec. 30, T. 33 S., R. 23 E., San Juan County, Hydrologic Unit 14080203, on the left bank and 5.5 mi west of Monticello.

DRAINAGE AREA.--2.72 mi².

PERIOD OF RECORD.--July 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 8,540 ft above NGVD of 1929, from GPS.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 0.80 ft³/s, Aug 9; no flow Jun 5 to Sep 30, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum observed discharge, 15.7 ft³/s, May 29, 2001, gage height, 3.58 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.43 ft³/s, Mar 8, gage height, 2.85 ft; no flow Jun 5 to Sep 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.11	0.12	e0.07	e0.08	0.04	0.05	0.19	0.22	0.01	0.00	0.00	0.00
2	0.13	0.12	e0.08	e0.07	0.03	0.04	0.20	0.21	0.01	0.00	0.00	0.00
3	0.14	0.11	e0.09	e0.07	0.04	0.05	0.21	0.21	0.01	0.00	0.00	0.00
4	0.13	0.11	e0.09	e0.07	0.04	0.04	0.21	0.21	0.01	0.00	0.00	0.00
5	0.13	0.11	e0.07	e0.08	0.04	0.04	0.22	0.20	0.0	0.00	0.00	0.00
6	0.14	0.11	e0.08	e0.08	0.04	0.04	0.22	0.19	0.00	0.00	0.00	0.00
7	0.15	0.11	e0.08	e0.09	0.05	0.04	0.22	0.19	0.00	0.00	0.00	0.00
8	0.16	0.10	e0.08	e0.09	0.05	0.06	0.23	0.19	0.00	0.00	0.00	0.00
9	0.17	0.09	e0.08	e0.09	0.05	0.06	0.24	0.21	0.00	0.00	0.00	0.00
10	0.16	0.09	e0.08	e0.08	0.05	0.06	0.24	0.20	0.00	0.00	0.00	0.00
11	0.15	0.07	e0.07	e0.09	0.05	0.05	0.26	0.19	0.00	0.00	0.00	0.00
12	0.14	0.08	e0.06	e0.09	0.05	0.06	0.26	0.20	0.00	0.00	0.00	0.00
13	0.17	0.09	e0.07	e0.08	0.05	0.07	0.26	0.19	0.00	0.00	0.00	0.00
14	0.14	0.09	e0.07	e0.08	0.06	0.08	0.25	0.19	0.00	0.00	0.00	0.00
15	0.14	0.09	e0.08	0.09	0.04	0.09	0.26	0.18	0.00	0.00	0.00	0.00
16	0.13	0.09	e0.06	0.09	0.05	0.09	0.28	0.15	0.00	0.00	0.00	0.00
17	0.13	0.08	e0.07	0.07	0.05	0.08	0.28	0.12	0.00	0.00	0.00	0.00
18	0.12	0.08	e0.08	0.05	0.05	0.08	0.25	0.11	0.00	0.00	0.00	0.00
19	0.13	0.09	e0.08	0.04	0.06	0.07	0.24	0.11	0.00	0.00	0.00	0.00
20	0.13	0.09	e0.10	0.02	0.07	0.07	0.24	0.12	0.00	0.00	0.00	0.00
21	0.13	0.08	e0.09	0.04	0.06	0.07	0.22	0.12	0.00	0.00	0.00	0.00
22	0.14	0.07	e0.08	0.04	0.05	0.08	0.22	0.11	0.00	0.00	0.00	0.00
23	0.13	0.06	e0.07	0.04	0.06	0.09	0.22	0.11	0.00	0.00	0.00	0.00
24	0.13	e0.05	0.08	0.04	0.06	0.10	0.22	0.09	0.00	0.00	0.00	0.00
25	0.13	e0.06	0.08	0.04	0.06	0.11	0.22	0.08	0.00	0.00	0.00	0.00
26	0.12	e0.05	0.09	0.04	0.04	0.10	0.23	0.06	0.00	0.00	0.00	0.00
27	0.11	e0.05	e0.08	0.06	0.04	0.10	0.25	0.04	0.00	0.00	0.00	0.00
28	0.12	e0.04	e0.09	0.07	0.04	0.11	0.24	0.02	0.00	0.00	0.00	0.00
29	0.12	e0.05	e0.09	0.08	---	0.13	0.23	0.02	0.00	0.00	0.00	0.00
30	0.12	e0.06	e0.08	0.06	---	0.16	0.23	0.02	0.00	0.00	0.00	0.00
31	0.13	---	e0.08	0.04	---	0.18	---	0.01	---	0.00	0.00	---
TOTAL	4.18	2.49	2.45	2.05	1.37	2.45	7.04	4.27	0.04	0.00	0.00	0.00
MEAN	0.135	0.083	0.079	0.066	0.049	0.079	0.235	0.138	0.001	0.000	0.000	0.000
MAX	0.17	0.12	0.10	0.09	0.07	0.18	0.28	0.22	0.01	0.00	0.00	0.00
MIN	0.11	0.04	0.06	0.02	0.03	0.04	0.19	0.01	0.00	0.00	0.00	0.00
AC-FT	8.3	4.9	4.9	4.1	2.7	4.9	14	8.5	0.08	0.00	0.00	0.00

e Estimated

09372400 NORTH CREEK NEAR MONTICELLO, UT--Continued

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	---	---	---	---	---	---	---	---	---	---	e0.20	0.26
2	---	---	---	---	---	---	---	---	---	---	e0.21	0.23
3	---	---	---	---	---	---	---	---	---	---	e0.21	0.18
4	---	---	---	---	---	---	---	---	---	---	e0.20	0.16
5	---	---	---	---	---	---	---	---	---	---	e0.20	0.15
6	---	---	---	---	---	---	---	---	---	---	e0.20	0.15
7	---	---	---	---	---	---	---	---	---	---	e0.19	0.15
8	---	---	---	---	---	---	---	---	---	---	e0.20	0.16
9	---	---	---	---	---	---	---	---	---	---	e0.80	0.16
10	---	---	---	---	---	---	---	---	---	---	e0.70	0.14
11	---	---	---	---	---	---	---	---	---	---	e0.36	0.13
12	---	---	---	---	---	---	---	---	---	---	e0.24	0.11
13	---	---	---	---	---	---	---	---	---	---	e0.20	0.12
14	---	---	---	---	---	---	---	---	---	---	e0.20	0.13
15	---	---	---	---	---	---	---	---	---	---	e0.19	0.15
16	---	---	---	---	---	---	---	---	---	e0.19	e0.20	0.15
17	---	---	---	---	---	---	---	---	---	e0.19	e0.23	0.14
18	---	---	---	---	---	---	---	---	---	e0.19	e0.21	0.13
19	---	---	---	---	---	---	---	---	---	e0.19	e0.20	0.12
20	---	---	---	---	---	---	---	---	---	e0.19	e0.22	0.10
21	---	---	---	---	---	---	---	---	---	e0.20	0.31	0.10
22	---	---	---	---	---	---	---	---	---	e0.20	0.36	0.10
23	---	---	---	---	---	---	---	---	---	e0.20	0.24	0.10
24	---	---	---	---	---	---	---	---	---	e0.19	0.21	0.11
25	---	---	---	---	---	---	---	---	---	e0.20	0.20	0.11
26	---	---	---	---	---	---	---	---	---	e0.21	0.19	0.12
27	---	---	---	---	---	---	---	---	---	e0.21	0.19	0.12
28	---	---	---	---	---	---	---	---	---	e0.20	0.19	0.11
29	---	---	---	---	---	---	---	---	---	e0.20	0.18	0.09
30	---	---	---	---	---	---	---	---	---	e0.19	0.19	0.09
31	---	---	---	---	---	---	---	---	---	e0.19	0.20	---
TOTAL	---	---	---	---	---	---	---	---	---	---	7.82	4.07
MEAN	---	---	---	---	---	---	---	---	---	---	0.252	0.136
MAX	---	---	---	---	---	---	---	---	---	---	0.80	0.26
MIN	---	---	---	---	---	---	---	---	---	---	0.18	0.09
AC-FT	---	---	---	---	---	---	---	---	---	---	16	8.1

e Estimated

09376800 SPRING CREEK NEAR MONTICELLO, UT

LOCATION.--Lat 37°53'20", long 109°27'57", in SE¹/₄SE¹/₄SE¹/₄ sec. 25, T. 33 S., R. 22 E., San Juan County, Hydrologic Unit 14080203, on the right bank, and 7.2 mi west of Monticello.

DRAINAGE AREA.--2.55 mi².

PERIOD OF RECORD.--July 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 8,720 ft above NGVD of 1929, from GPS.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1.3 ft³/s, Aug 22, 2001, gage height, 2.27 ft; minimum daily discharge, 0.03 ft³/s, Jan 19, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum observed discharge, 10.1 ft³/s, May 15, 2001, gage height, 2.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.2 ft³/s, Apr 21, gage height, 2.39 ft; minimum daily discharge, 0.03 ft³/s, Jan 19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.14	0.29	e0.09	e0.05	e0.08	0.20	0.23	0.29	e0.12	e0.10	e0.10	0.06
2	0.16	0.30	e0.10	e0.04	e0.09	0.21	0.23	0.31	e0.12	0.10	0.09	0.06
3	0.16	0.30	e0.10	e0.05	e0.09	0.21	0.23	0.31	e0.12	0.13	0.10	0.06
4	0.16	0.30	e0.10	e0.05	e0.09	0.22	0.22	0.32	e0.12	0.14	0.10	0.05
5	0.17	0.31	e0.08	e0.06	e0.09	0.16	0.23	0.30	e0.12	0.13	0.11	0.04
6	0.17	0.32	e0.08	e0.07	e0.10	0.11	0.23	0.29	e0.12	0.13	0.12	0.06
7	0.21	0.32	e0.08	e0.08	e0.10	0.14	0.24	0.29	e0.12	0.13	0.12	0.07
8	0.22	0.32	e0.08	e0.08	e0.11	0.17	0.24	0.31	e0.11	0.13	0.12	0.06
9	0.35	0.31	e0.08	e0.08	e0.08	0.17	0.25	0.31	e0.11	e0.13	0.12	0.07
10	0.28	0.30	e0.08	e0.07	e0.09	0.19	0.26	0.32	e0.11	e0.13	0.11	0.07
11	0.25	0.30	e0.07	e0.07	0.10	0.18	0.26	0.33	e0.11	e0.13	0.11	0.08
12	0.28	0.30	e0.05	e0.07	0.09	0.19	0.26	e0.36	e0.11	e0.13	0.11	0.09
13	0.29	0.33	e0.06	e0.06	0.08	0.20	0.24	0.40	e0.11	e0.12	0.11	0.07
14	0.29	0.33	e0.06	e0.06	0.08	0.19	0.24	0.38	e0.11	e0.12	0.12	0.07
15	0.29	e0.27	e0.06	e0.08	0.08	0.17	0.25	0.39	e0.11	e0.12	0.12	0.07
16	0.28	e0.23	e0.05	e0.07	0.08	0.18	e0.25	0.35	e0.11	e0.12	0.12	0.06
17	0.29	e0.19	e0.06	e0.06	e0.10	0.17	0.26	0.28	e0.11	e0.12	0.12	0.07
18	0.29	e0.16	e0.06	e0.05	e0.12	0.18	0.28	0.24	e0.11	e0.11	0.12	0.07
19	0.29	e0.13	e0.06	e0.03	0.15	0.18	0.28	0.22	e0.11	e0.11	0.12	0.06
20	0.28	e0.13	e0.07	e0.05	0.17	0.18	0.28	0.19	e0.11	e0.11	0.14	0.06
21	0.27	e0.13	e0.07	e0.07	0.18	0.19	0.33	0.19	e0.10	e0.11	0.12	0.07
22	0.28	e0.12	e0.05	e0.08	0.19	0.21	0.25	0.20	e0.10	e0.11	0.12	0.08
23	0.28	e0.11	e0.05	e0.08	0.20	0.21	0.24	0.19	e0.10	e0.10	0.11	0.09
24	0.27	e0.10	e0.05	e0.06	0.20	0.20	0.24	0.18	e0.10	e0.10	0.10	0.09
25	0.26	e0.11	e0.05	e0.08	0.18	0.19	0.24	0.17	e0.10	e0.10	0.09	0.09
26	0.25	e0.09	e0.05	e0.09	e0.17	0.19	0.25	0.16	e0.10	e0.10	0.08	0.10
27	0.25	e0.09	e0.05	e0.09	0.21	0.21	0.27	0.16	e0.10	e0.10	0.07	0.10
28	0.24	e0.08	0.06	e0.09	0.20	0.21	0.29	e0.14	e0.10	e0.10	0.07	0.10
29	0.25	e0.08	e0.06	e0.09	---	0.20	0.28	e0.13	e0.10	e0.10	0.06	0.11
30	0.25	e0.09	e0.05	e0.07	---	0.21	0.29	e0.12	e0.10	e0.10	0.06	0.10
31	0.28	---	e0.05	e0.06	---	0.23	---	e0.12	---	e0.10	0.06	---
TOTAL	7.73	6.44	2.06	2.09	3.50	5.85	7.64	7.95	3.27	3.56	3.22	2.23
MEAN	0.249	0.215	0.066	0.067	0.125	0.189	0.255	0.256	0.109	0.115	0.104	0.074
MAX	0.35	0.33	0.10	0.09	0.21	0.23	0.33	0.40	0.12	0.14	0.14	0.11
MIN	0.14	0.08	0.05	0.03	0.08	0.11	0.22	0.12	0.10	0.10	0.06	0.04
AC-FT	15	13	4.1	4.1	6.9	12	15	16	6.5	7.1	6.4	4.4

e Estimated

09376800 SPRING CREEK NEAR MONTICELLO, UT--Continued

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	---	---	---	---	---	---	---	---	---	---	e0.50	0.26
2	---	---	---	---	---	---	---	---	---	---	e0.48	0.23
3	---	---	---	---	---	---	---	---	---	---	e0.48	0.21
4	---	---	---	---	---	---	---	---	---	---	e0.46	0.19
5	---	---	---	---	---	---	---	---	---	---	e0.46	0.19
6	---	---	---	---	---	---	---	---	---	---	e0.46	0.18
7	---	---	---	---	---	---	---	---	---	---	e0.46	0.17
8	---	---	---	---	---	---	---	---	---	---	e0.48	0.17
9	---	---	---	---	---	---	---	---	---	---	e0.48	0.16
10	---	---	---	---	---	---	---	---	---	---	e0.48	0.15
11	---	---	---	---	---	---	---	---	---	---	e0.48	0.14
12	---	---	---	---	---	---	---	---	---	---	e0.48	0.12
13	---	---	---	---	---	---	---	---	---	---	e0.48	0.14
14	---	---	---	---	---	---	---	---	---	---	e0.48	0.16
15	---	---	---	---	---	---	---	---	---	---	e0.48	0.16
16	---	---	---	---	---	---	---	---	---	---	e0.46	0.16
17	---	---	---	---	---	---	---	---	---	e0.70	e0.46	0.15
18	---	---	---	---	---	---	---	---	---	e0.68	e0.46	0.17
19	---	---	---	---	---	---	---	---	---	e0.68	e0.46	0.16
20	---	---	---	---	---	---	---	---	---	e0.66	e0.46	0.16
21	---	---	---	---	---	---	---	---	---	e0.64	0.41	0.16
22	---	---	---	---	---	---	---	---	---	e0.62	0.66	0.15
23	---	---	---	---	---	---	---	---	---	e0.60	0.47	0.15
24	---	---	---	---	---	---	---	---	---	e0.60	0.41	0.16
25	---	---	---	---	---	---	---	---	---	e0.58	0.35	0.16
26	---	---	---	---	---	---	---	---	---	e0.58	0.34	0.17
27	---	---	---	---	---	---	---	---	---	e0.56	0.32	0.16
28	---	---	---	---	---	---	---	---	---	e0.54	0.29	0.16
29	---	---	---	---	---	---	---	---	---	e0.54	0.29	0.13
30	---	---	---	---	---	---	---	---	---	e0.52	0.28	0.12
31	---	---	---	---	---	---	---	---	---	e0.50	0.27	---
TOTAL	---	---	---	---	---	---	---	---	---	---	13.53	4.95
MEAN	---	---	---	---	---	---	---	---	---	---	0.436	0.165
MAX	---	---	---	---	---	---	---	---	---	---	0.66	0.26
MIN	---	---	---	---	---	---	---	---	---	---	0.27	0.12
AC-FT	---	---	---	---	---	---	---	---	---	---	27	9.8

e Estimated

09378170 SOUTH CREEK ABOVE RESERVOIR, NEAR MONTICELLO, UT

LOCATION.--Lat 37°50'48", long 109°22'08", in NE¹/₄SW¹/₄ sec. 2, T. 34 S., R. 23 E., San Juan County, Hydrologic Unit 14080203, 200 ft upstream from west side of reservoir and 2 mi southwest of Monticello.

DRAINAGE AREA.--8.64 mi².

PERIOD OF RECORD.--October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,170 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 163 ft³/s, Nov 5, 1987, gage height, 4.17 ft; no flow many days in Jun, Jul, Aug, Sep, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 34 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 28	1748	*110	*3.47	No other peak greater than base discharge.			

No flow on many days in Jun, Jul, Aug, Sep.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.05	0.18	e0.06	e0.06	e0.05	e0.06	e0.06	e0.03	e0.02	e0.00	e0.01	e0.00
2	0.05	0.18	e0.08	e0.04	e0.06	e0.04	e0.06	e0.03	e0.02	e0.00	e0.01	e0.00
3	0.05	0.18	0.08	e0.04	e0.06	e0.04	e0.05	e0.03	e0.02	e0.00	e0.01	e0.00
4	e0.05	0.18	e0.08	e0.06	e0.06	e0.06	e0.04	e0.03	e0.02	e0.00	e0.01	e0.00
5	e0.04	0.18	e0.07	e0.04	e0.06	e0.06	e0.04	e0.03	e0.02	e0.00	e0.01	e0.00
6	e0.04	0.18	0.08	e0.05	e0.06	e0.07	e0.04	e0.03	e0.01	e0.00	e0.00	e0.00
7	e0.04	0.20	0.08	e0.05	e0.06	e0.07	e0.05	e0.03	e0.01	e0.00	e0.00	e0.00
8	e0.05	0.22	0.08	e0.05	e0.07	e0.06	e0.05	e0.03	e0.01	e0.00	e0.00	e0.00
9	e0.05	0.22	0.08	e0.06	e0.05	e0.05	e0.04	e0.03	e0.01	e0.00	e0.00	e0.00
10	0.05	0.22	e0.08	e0.06	e0.05	e0.06	e0.04	e0.03	e0.01	0.00	e0.00	e0.00
11	0.07	0.22	e0.07	e0.06	e0.06	e0.06	e0.04	e0.03	e0.01	0.00	e0.00	e0.01
12	0.08	0.22	e0.06	e0.06	e0.06	e0.07	e0.04	e0.03	e0.01	0.00	e0.00	e0.01
13	0.08	0.20	e0.07	e0.05	e0.06	e0.08	e0.04	e0.03	e0.00	0.00	e0.00	e0.01
14	0.08	e0.16	e0.07	e0.05	e0.06	e0.08	e0.05	e0.03	e0.00	0.00	e0.00	e0.01
15	0.10	e0.14	e0.07	e0.06	e0.06	e0.06	e0.04	e0.03	e0.00	0.00	e0.00	e0.01
16	0.11	e0.14	e0.06	e0.06	e0.06	e0.06	e0.04	e0.03	e0.00	0.00	e0.00	e0.01
17	0.11	e0.12	e0.07	e0.05	e0.06	e0.06	e0.04	e0.03	e0.00	0.00	e0.00	e0.01
18	0.11	e0.10	e0.07	e0.04	e0.06	e0.06	e0.04	e0.03	e0.00	0.00	e0.00	e0.01
19	0.11	e0.08	e0.07	e0.04	e0.06	e0.07	e0.04	e0.03	e0.00	0.00	e0.00	e0.01
20	0.12	e0.07	e0.08	e0.05	e0.06	e0.07	e0.04	e0.03	e0.00	0.00	e0.00	e0.01
21	0.14	e0.07	e0.08	e0.06	e0.06	e0.08	e0.04	e0.03	e0.00	0.00	e0.00	e0.01
22	0.14	e0.08	e0.06	e0.06	e0.07	e0.08	e0.04	e0.03	e0.00	0.00	e0.00	e0.01
23	0.16	e0.07	e0.05	e0.06	e0.07	e0.08	e0.04	e0.03	e0.00	0.00	e0.00	e0.01
24	0.18	e0.06	e0.05	e0.05	e0.07	e0.07	e0.04	e0.03	e0.00	0.00	e0.00	e0.00
25	0.18	e0.07	e0.06	e0.06	e0.06	e0.06	e0.04	e0.03	e0.00	0.00	e0.00	e0.00
26	0.18	e0.06	e0.06	e0.06	e0.06	e0.07	e0.04	e0.03	e0.00	0.00	e0.00	e0.00
27	0.18	e0.06	e0.07	e0.06	e0.06	e0.08	e0.04	e0.03	e0.00	e0.01	e0.00	e0.00
28	0.18	e0.05	e0.06	e0.06	e0.06	0.08	e0.04	e0.02	e0.00	e3.0	e0.00	e0.00
29	0.18	e0.07	e0.06	e0.06	---	0.08	e0.04	e0.02	e0.00	e0.04	e0.00	e0.01
30	0.18	e0.07	e0.07	e0.04	---	0.08	e0.04	e0.02	e0.00	e0.03	e0.00	e0.01
31	0.18	---	e0.06	e0.04	---	e0.07	---	e0.02	---	e0.02	e0.00	---
TOTAL	3.32	4.05	2.14	1.64	1.69	2.07	1.28	0.89	0.17	3.10	0.05	0.15
MEAN	0.107	0.135	0.069	0.053	0.060	0.067	0.043	0.029	0.006	0.100	0.002	0.005
MAX	0.18	0.22	0.08	0.06	0.07	0.08	0.06	0.03	0.02	3.0	0.01	0.01
MIN	0.04	0.05	0.05	0.04	0.05	0.04	0.04	0.02	0.00	0.00	0.00	0.00
AC-FT	6.6	8.0	4.2	3.3	3.4	4.1	2.5	1.8	0.3	6.1	0.1	0.3

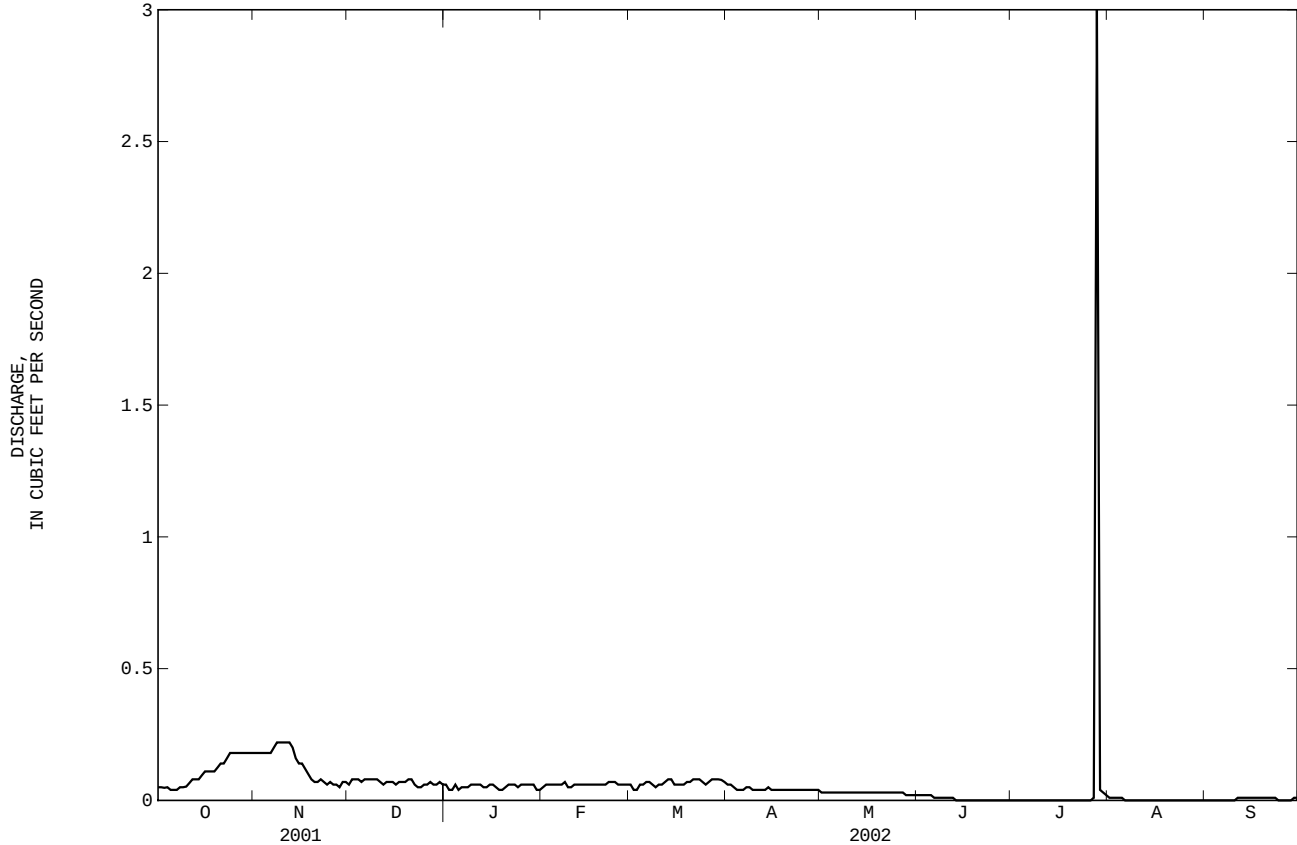
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2002, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	0.212	0.539	0.174	0.159	0.271	1.865	5.516	6.884	2.832	0.580	0.273	0.237					
MAX	0.45	5.40	0.64	0.45	1.08	5.65	19.0	33.0	11.6	3.51	0.52	0.91					
(WY)	1987	1988	1988	1988	1986	1995	1993	1993	1995	1995	1987	1991					
MIN	0.083	0.068	0.069	0.053	0.060	0.067	0.043	0.029	0.006	0.10	0.002	0.005					
(WY)	2001	2001	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002					

09378170 SOUTH CREEK ABOVE RESERVOIR, NEAR MONTICELLO, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1986 - 2002		
ANNUAL TOTAL	337.18			20.55			1.632		
ANNUAL MEAN	0.924			0.056			5.89		
HIGHEST ANNUAL MEAN							0.056		
LOWEST ANNUAL MEAN							60		
HIGHEST DAILY MEAN	11	May	2	3.0	Jul	28	60	May	17
LOWEST DAILY MEAN	0.03	Sep	14	0.00	Jun	13	0.00	Jun	13
ANNUAL SEVEN-DAY MINIMUM	0.04	Sep	8	0.00	Jun	13	0.00	Jun	13
ANNUAL RUNOFF (AC-FT)	669			41			1180		
10 PERCENT EXCEEDS	2.7			0.09			4.6		
50 PERCENT EXCEEDS	0.11			0.04			0.21		
90 PERCENT EXCEEDS	0.05			0.00			0.07		

e Estimated



09378490 COAL BED CANYON NEAR DOVE CREEK, CO

LOCATION.--Lat 37°48'41", long 109°01'25", in NW¹/₄SW¹/₄SE¹/₄ sec. 13, T. 41 N., R. 20 W., Dove Creek County, Hydrologic Unit 14080203, on right bank 200' north of Highway 666, 18.6 miles east of Monticello, Utah

DRAINAGE AREA.--97.1 mi².

PERIOD OF RECORD.--July 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,580 ft above NGVD of 1929, from GPS.

REMARKS.--No flow this year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1.0 ft³/s, Aug 8, 2001; no flow many days each year.

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

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

[illegible]

09378490 COAL BED CANYON NEAR DOVE CREEK, CO--Continued

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	---	---	---	---	---	---	---	---	---	---	0.0	0.0
2	---	---	---	---	---	---	---	---	---	---	0.0	0.0
3	---	---	---	---	---	---	---	---	---	---	0.0	0.0
4	---	---	---	---	---	---	---	---	---	---	0.0	0.0
5	---	---	---	---	---	---	---	---	---	---	0.0	0.0
6	---	---	---	---	---	---	---	---	---	---	0.0	0.0
7	---	---	---	---	---	---	---	---	---	---	0.0	0.0
8	---	---	---	---	---	---	---	---	---	---	e1.0	0.0
9	---	---	---	---	---	---	---	---	---	---	e0.50	0.0
10	---	---	---	---	---	---	---	---	---	---	e0.10	0.0
11	---	---	---	---	---	---	---	---	---	---	e0.0	0.0
12	---	---	---	---	---	---	---	---	---	---	0.0	0.0
13	---	---	---	---	---	---	---	---	---	---	0.0	0.0
14	---	---	---	---	---	---	---	---	---	---	0.0	0.0
15	---	---	---	---	---	---	---	---	---	---	0.0	0.0
16	---	---	---	---	---	---	---	---	---	---	0.0	0.0
17	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
18	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
19	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
20	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
21	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
22	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
23	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
24	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
25	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
26	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
27	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
28	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
29	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
30	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
31	---	---	---	---	---	---	---	---	---	0.0	0.0	---
TOTAL	---	---	---	---	---	---	---	---	---	---	1.60	0.0
MEAN	---	---	---	---	---	---	---	---	---	---	0.052	0.000
MAX	---	---	---	---	---	---	---	---	---	---	1.0	0.00
MIN	---	---	---	---	---	---	---	---	---	---	0.00	0.00
AC-FT	---	---	---	---	---	---	---	---	---	---	3.2	0.00

e Estimated

SAN JUAN RIVER BASIN

09378630 RECAPTURE CREEK NEAR BLANDING, UT

LOCATION.--Lat 37°45'20", long 109°28'33", in NW¹/₄NE¹/₄NW¹/₄ sec. 11, T. 35 S., R. 22 E., San Juan County, Hydrologic Unit 14080201, on right bank 100 ft below road fork, 1.9 mi north of Manti-LaSal National Forest boundary, and 9.4 mi north of Blanding.

DRAINAGE AREA.--3.77 mi².

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,200 ft above NGVD of 1929, from topographic map.

REMARKS. --Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft³/s, Oct 20, 1972, gage height, 2.14 ft; no flow in 2002 except for Mar 23-26.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 23	0300	*0.11	*0.61				

No flow except for Mar 23-26.

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

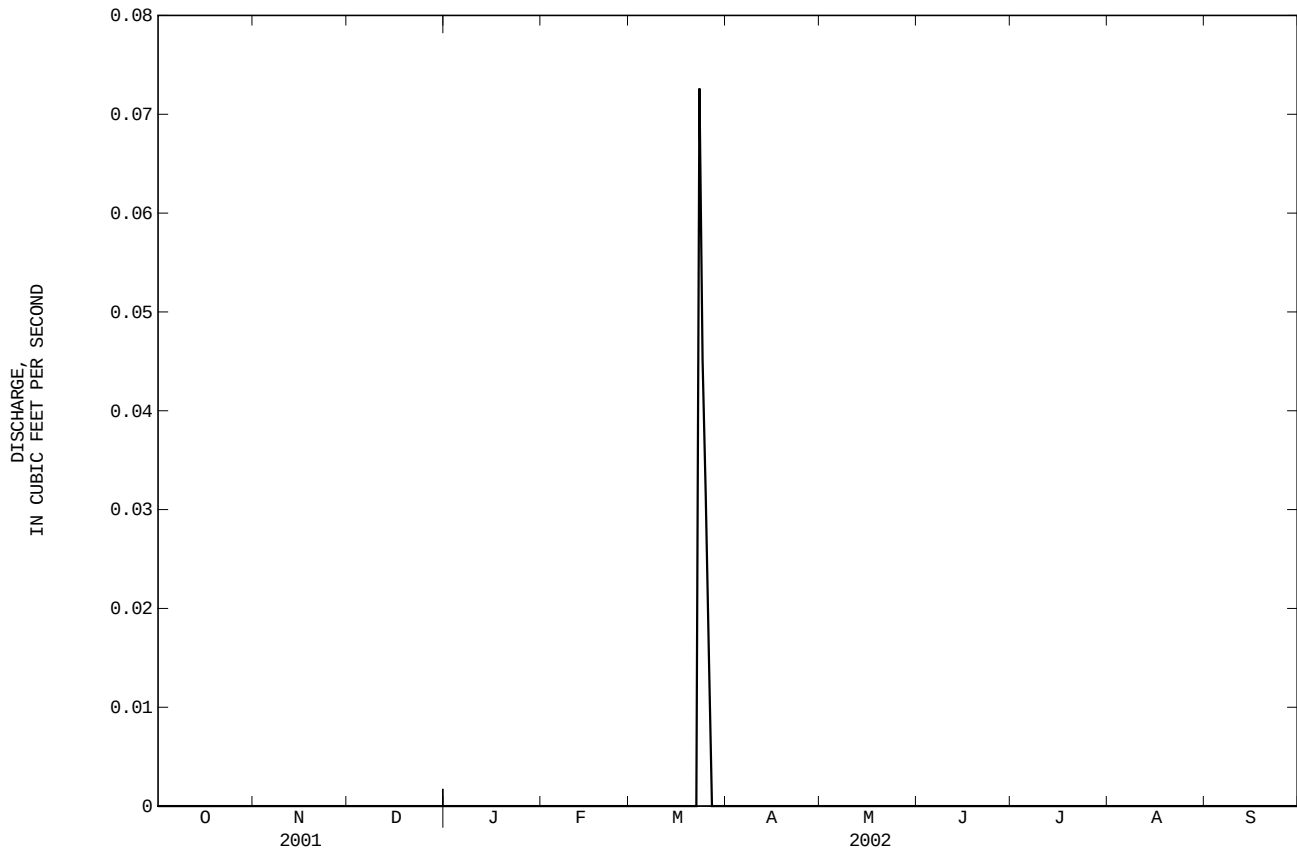
[illegible]

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

MEAN	0.161	0.123	0.049	0.034	0.111	1.571	4.701	6.160	2.099	0.150	0.052	0.017
MAX	4.77	2.32	0.67	0.64	0.68	11.2	15.9	25.1	13.6	1.00	0.73	0.085
(WY)	1973	1988	1973	1973	1980	1993	1993	1983	1983	1995	1968	1988
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1979	1977	1977	1968	1977	1977	1977	2002	1977	1996	1972	1966

09378630 RECAPTURE CREEK NEAR BLANDING, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1966 - 2002	
ANNUAL TOTAL	356.89	0.17		
ANNUAL MEAN	0.978	0.000	1.273	
HIGHEST ANNUAL MEAN			4.60	1983
LOWEST ANNUAL MEAN			0.000	2002
HIGHEST DAILY MEAN	9.6 May 2	0.07 Mar 23	57	Oct 20 1972
LOWEST DAILY MEAN	0.00 Jan 1	0.00 Oct 1	0.00	Dec 20 1965
ANNUAL SEVEN-DAY MINIMUM	0.00 Jan 1	0.00 Oct 1	0.00	Dec 20 1965
ANNUAL RUNOFF (AC-FT)	708	0.3	922	
10 PERCENT EXCEEDS	4.9	0.00	3.6	
50 PERCENT EXCEEDS	0.00	0.00	0.03	
90 PERCENT EXCEEDS	0.00	0.00	0.00	



SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UT

LOCATION.--Lat 37°08'49", long 109°51'51", in SE¹/₄NE¹/₄SW¹/₄ sec. 7, T. 42 S., R. 19 E., San Juan County, Hydrologic Unit 14080205, on left bank 1,600 ft downstream from Gypsum Creek, 1,800 ft upstream from highway bridge, 20 mi southwest of Bluff, at mile 113.5.

DRAINAGE AREA.--23,000 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1213: 1940. WSP 1313: 1917, 1929. WSP 1343: 1945.

GAGE.--Water-stage recorder. Datum of gage is 4,048 ft above NGVD of 1929, from levels of Topographic Division, U.S. Geological Survey. Prior to March 16, 1927, chain gages at sites about 1,700 ft downstream at different datums.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of approximately 200,000 acres above station. No diversion between station and mouth of river. Flow regulated by Navajo Reservoir since June 28, 1962 (see station 09355100 in New Mexico report).

EXTREMES FOR PERIOD OF RECORD.--(water years 1914-17, 1927-2002) maximum discharge, 70,000 ft³/s, Sep 10, 1927, gage height, 32.0 ft, from rating curve extended above 31,000 ft³/s, and slope-area measurement at gage height, 26.62 ft; no flow Jul 3-13, 1934, Aug 24-27, 29, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct 6, 1911, which is greatest known at Shiprock, NM, probably exceeded that of Sep 10, 1927 at this station but stage was not accurately determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 7	2015	11,300	11.08	Sep 12	2045	*15,400	*13.12

Minimum discharge, 280 ft³/s, Jun 22, 23.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	604	792	865	821	674	666	537	536	579	337	391	460
2	605	934	849	826	694	689	676	489	606	337	351	443
3	639	901	840	822	772	689	650	456	716	334	362	429
4	633	831	840	824	708	675	567	478	736	375	329	408
5	646	859	854	816	690	720	541	599	718	319	381	389
6	689	895	862	810	654	737	550	594	781	362	544	396
7	819	923	882	824	651	724	556	572	714	352	565	2340
8	848	869	882	814	654	721	563	604	591	365	740	3020
9	854	754	845	798	668	694	609	665	544	341	689	2620
10	747	724	786	811	670	685	627	728	528	333	564	1920
11	872	782	780	864	681	692	588	810	536	342	497	6860
12	942	750	788	858	681	687	528	681	537	386	418	10100
13	943	735	789	853	659	650	511	637	457	446	368	9650
14	926	710	795	853	656	663	463	590	471	421	348	3200
15	e870	689	830	834	692	666	438	574	493	392	329	1980
16	928	734	852	801	720	647	423	587	482	406	331	1520
17	872	764	833	793	712	666	417	677	442	344	327	1270
18	905	790	844	799	731	692	420	701	424	313	315	1090
19	848	788	768	780	742	682	486	730	414	296	306	944
20	874	806	745	757	723	678	606	699	363	309	313	1130
21	850	762	762	764	731	666	506	778	319	389	319	1070
22	874	719	772	777	746	682	475	816	290	313	565	847
23	884	716	775	825	754	653	506	778	287	319	405	726
24	869	755	756	778	745	654	512	847	308	302	392	629
25	837	821	746	731	718	660	472	740	332	307	408	508
26	699	877	798	755	710	675	456	614	338	497	411	479
27	741	829	812	808	681	645	468	555	334	570	401	434
28	720	846	845	754	658	637	493	509	329	523	382	428
29	759	838	837	735	---	585	599	532	343	526	764	455
30	752	870	807	726	---	527	584	548	352	497	e600	592
31	764	---	790	691	---	512	---	548	---	433	557	---
TOTAL	24813	24063	25229	24702	19575	20619	15827	19672	14364	11786	13672	56337
MEAN	800.4	802.1	813.8	796.8	699.1	665.1	527.6	634.6	478.8	380.2	441.0	1878
MAX	943	934	882	864	772	737	676	847	781	570	764	10100
MIN	604	689	745	691	651	512	417	456	287	296	306	389
AC-FT	49220	47730	50040	49000	38830	40900	31390	39020	28490	23380	27120	111700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-17, 1927-2002, BY WATER YEAR (WY)

	1540	1230	1096	1113	1412	1855	3381	5208	5593	2492	1773	1639
MEAN	1540	1230	1096	1113	1412	1855	3381	5208	5593	2492	1773	1639
MAX	10650	4435	3821	3374	3683	6209	10120	21520	15380	9212	9335	11870
(WY)	1942	1987	1966	1986	1987	1916	1942	1941	1941	1957	1929	1927
MIN	205	345	408	335	519	463	399	339	479	236	80.4	64.5
(WY)	1957	1935	1957	1931	1964	1964	1977	1977	2002	1963	1939	1956

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SUMMARY STATISTICS

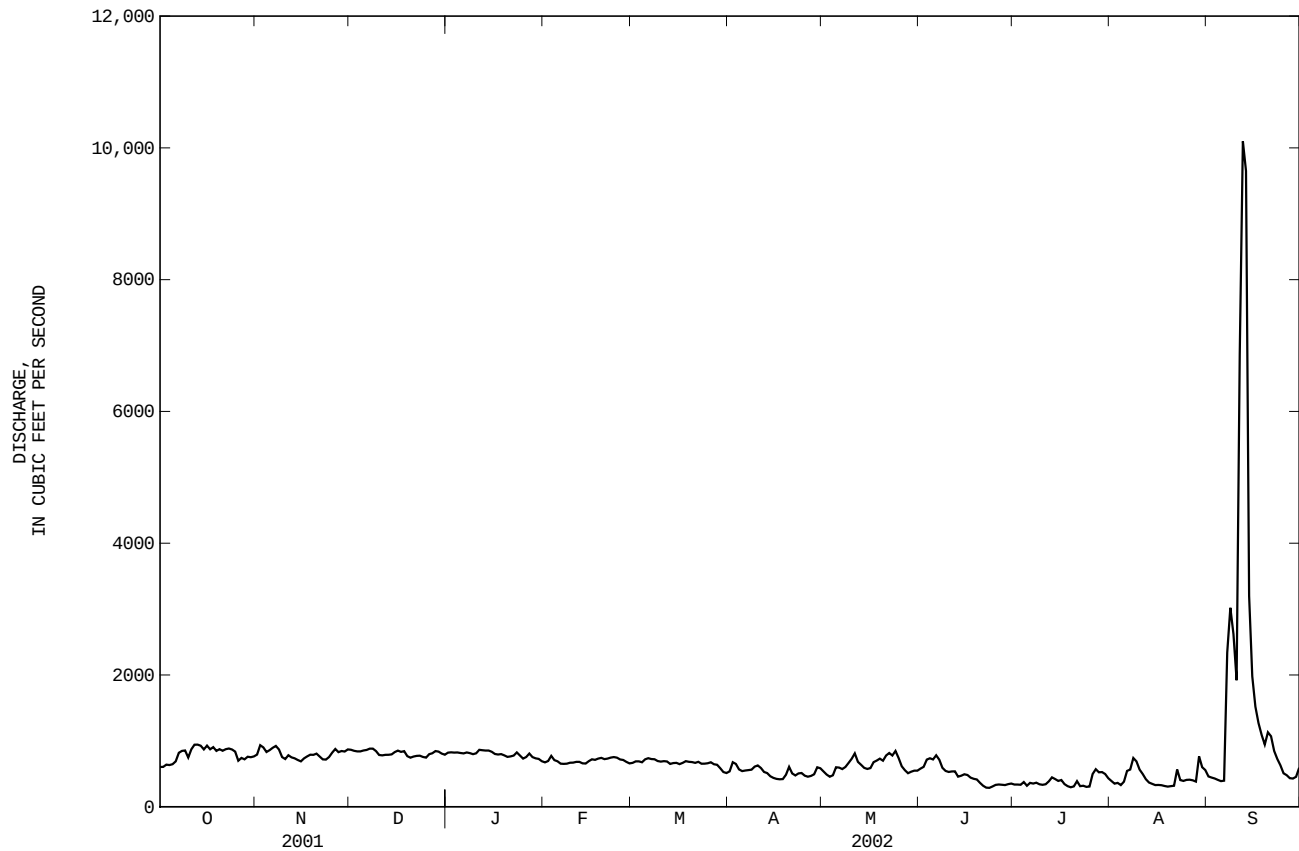
FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1915-17, 1927-2002

ANNUAL TOTAL	566525		270659		2261	
ANNUAL MEAN	1552		741.5		5859	1941
HIGHEST ANNUAL MEAN					742	2002
LOWEST ANNUAL MEAN					52000	Jun 30 1927
HIGHEST DAILY MEAN	7630	May 29	10100	Sep 12	0.00	Jul 3 1934
LOWEST DAILY MEAN	400	Sep 1	287	Jun 23	0.00	Jul 3 1934
ANNUAL SEVEN-DAY MINIMUM	472	Aug 28	315	Jun 21		
ANNUAL RUNOFF (AC-FT)	1124000		536900		1638000	
10 PERCENT EXCEEDS	4440		867		5500	
50 PERCENT EXCEEDS	872		681		1250	
90 PERCENT EXCEEDS	625		358		495	

e Estimated



09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1941 to September 1977, October 1980 to July 13, 1999, July 15, 2000 to current year.

WATER TEMPERATURE: May 1944 to September 1961, October 1964 to September 6, 1999, July 15, 2000 to current year.

SUSPENDED-SEDIMENT DISCHARGE: July 1929 to September 1980.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

INSTRUMENTATION.--Water-quality monitor October 1980 to September 6, 1999, July 15, 2000 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,790 microsiemens, Sep 19, 1959; minimum daily, 208 microsiemens, Jun 17, 1952.

WATER TEMPERATURE: Maximum, 33.4°C, Aug 14, 1998; minimum, -0.2°C, on many days during Dec, Jan 2001, Dec, Jan, Feb 2002.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 383,000 mg/L, Sep 21, 1929; minimum daily mean, no flow, on several days in 1934 and 1939.

SEDIMENT LOADS: Maximum daily, 15,700,000 tons, Oct 20, 1972; minimum daily, 0 tons, on several days in 1934 and 1939.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,900 microsiemens, Sep 7; minimum, 560 microsiemens, Sep 7.

WATER TEMPERATURE: Maximum, 31.3°C, Jul 9; minimum, -0.2°C, on many days in Dec, Jan, Feb.

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

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	GAGE HEIGHT (FEET) (00065)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
NOV 27...	1000	802	8.2	840	7.0	3.0	3.92	582
JAN 08...	1000	796	8.2	750	6.0	2.5	3.91	494
FEB 20...	0945	722	8.2	770	6.0	5.0	3.83	513
APR 03...	0945	616	8.2	690	19.0	15.0	3.70	446
MAY 13...	1030	650	8.4	600	22.0	18.0	3.67	392
JUN 20...	1100	363	8.3	660	34.0	24.0	3.63	424
JUL 15...	0940	375	8.3	750	32.0	25.0	3.26	477
AUG 27...	0930	416	8.3	590	27.5	21.0	3.31	369

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	730	701	713	773	759	766	830	782	807	764	730	747
2	717	691	705	770	748	762	841	814	827	747	730	739
3	698	679	689	759	721	742	826	803	814	747	718	736
4	709	688	697	769	724	744	843	821	831	743	716	728
5	713	704	708	777	751	765	851	821	839	764	709	736
6	718	708	713	756	739	750	867	821	845	751	724	740
7	721	702	715	742	725	734	824	809	818	750	687	716
8	702	667	681	732	720	726	816	801	810	744	683	708
9	671	663	667	737	722	730	806	778	792	750	689	720
10	701	663	673	765	735	748	782	749	767	759	724	735
11	733	697	710	780	760	772	762	736	749	794	724	748
12	735	698	718	789	778	784	799	756	770	794	758	777
13	710	700	706	794	788	791	799	760	774	785	749	770
14	700	684	691	807	794	799	762	730	749	769	743	755
15	697	681	687	812	800	805	757	713	737	759	732	747
16	697	664	679	819	806	813	778	713	749	759	719	734
17	678	663	669	819	791	809	765	700	742	776	709	742
18	672	643	659	798	787	793	729	706	720	765	748	758
19	655	644	651	792	783	789	750	703	724	755	730	743
20	655	646	651	795	784	790	766	725	738	764	717	737
21	658	649	654	788	780	785	752	731	737	741	716	728
22	660	651	657	797	782	791	775	725	748	742	706	726
23	669	654	661	803	793	799	773	755	761	727	701	714
24	663	655	660	802	795	798	761	750	757	752	707	730
25	670	659	667	825	798	811	755	742	744	740	726	734
26	683	670	677	835	805	821	745	738	742	739	705	724
27	739	683	705	872	821	844	739	701	719	741	696	712
28	766	739	762	833	812	824	729	700	716	745	711	729
29	771	760	766	817	797	809	743	702	719	780	728	749
30	769	760	765	810	771	794	731	703	724	775	733	761
31	782	768	774	---	---	---	759	730	749	798	754	773
MONTH	782	643	695	872	720	783	867	700	765	798	683	739

SAN JUAN RIVER BASIN

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09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	761	725	746	736	686	711	796	790	793	626	603	614
2	738	693	719	725	685	705	794	748	774	668	612	629
3	748	697	720	732	678	709	748	672	697	635	618	626
4	726	697	710	737	701	716	673	636	650	629	621	626
5	740	674	702	718	681	704	673	644	659	634	627	630
6	753	674	705	711	661	688	692	665	677	630	604	618
7	760	678	715	721	666	696	708	685	696	619	608	614
8	757	683	714	735	670	708	700	672	685	631	612	620
9	754	681	714	760	678	726	687	667	680	628	610	618
10	757	680	715	749	725	737	703	680	691	623	616	618
11	741	699	718	743	719	734	751	686	720	627	618	622
12	779	698	747	730	707	721	729	719	723	625	600	613
13	754	702	722	740	700	718	719	701	712	617	605	609
14	758	706	730	742	710	725	720	709	712	625	614	621
15	763	708	735	738	720	729	721	711	718	625	608	617
16	746	729	739	735	708	720	737	718	730	628	616	623
17	757	728	740	735	724	730	742	731	737	638	622	631
18	762	722	742	729	717	720	739	731	735	638	616	627
19	759	731	745	736	712	722	758	731	743	621	610	615
20	763	750	756	732	718	725	732	686	703	612	594	602
21	759	747	754	729	713	723	692	631	646	609	601	606
22	747	729	737	736	717	724	715	624	661	608	590	596
23	733	706	723	726	701	707	713	654	679	592	576	581
24	732	709	723	717	700	707	662	635	656	582	576	580
25	742	717	731	719	708	713	635	616	622	586	576	582
26	743	717	728	723	713	719	627	617	621	608	581	594
27	738	716	724	737	721	729	639	627	634	613	593	603
28	730	706	718	759	732	742	642	633	639	628	613	620
29	---	---	---	784	749	766	640	633	637	634	619	628
30	---	---	---	774	760	765	639	614	627	636	621	631
31	---	---	---	801	760	781	---	---	---	636	620	627
MONTH	779	674	728	801	661	723	796	614	689	668	576	614
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	625	607	619	627	611	620	602	590	597	620	570	597
2	625	616	622	630	599	615	608	602	604	614	595	601
3	624	607	614	634	627	630	615	607	610	625	602	611
4	613	595	603	639	603	628	620	612	615	625	577	600
5	595	578	583	641	578	619	624	618	621	590	575	582
6	592	578	583	634	595	612	628	612	625	599	563	574
7	594	585	590	619	613	616	645	626	634	1900	560	780
8	595	585	590	614	594	600	652	642	647	1120	742	920
9	608	595	602	610	593	603	651	632	640	1120	1070	1100
10	621	603	612	607	587	598	650	632	640	1070	793	893
11	610	603	607	618	601	609	648	636	643	1620	831	1160
12	621	605	612	622	616	618	636	614	625	1440	757	1040
13	619	599	608	626	613	619	614	593	602	1030	669	790
14	640	619	632	623	616	620	603	591	596	972	776	907
15	652	634	642	653	613	630	608	596	602	793	618	683
16	667	652	661	669	653	662	609	599	603	739	590	620
17	661	642	650	673	667	669	608	601	606	739	634	660
18	660	642	649	675	630	654	601	592	595	634	608	620
19	657	646	651	630	591	610	595	582	588	653	614	638
20	671	656	665	623	599	611	599	588	593	690	645	663
21	---	---	---	648	623	637	610	594	601	658	610	621
22	---	---	---	647	635	642	635	610	624	742	658	710
23	---	---	---	643	589	615	658	588	631	784	739	768
24	---	---	---	655	595	626	665	624	654	824	704	773
25	717	703	711	666	651	656	653	617	632	826	813	818
26	715	671	688	698	650	667	661	642	649	855	826	839
27	671	641	650	719	671	698	642	607	625	951	855	925
28	645	629	636	686	663	674	626	599	615	932	910	922
29	641	628	636	700	684	692	845	578	644	962	821	917
30	640	627	632	698	641	675	866	670	763	1090	821	930
31	---	---	---	641	595	616	670	579	624	---	---	---
MONTH	---	---	---	719	578	634	866	578	624	1900	560	775

SAN JUAN RIVER BASIN

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	22.0	18.7	20.2	13.3	11.1	12.1	3.7	1.9	2.8	3.7	2.2	2.7
2	21.1	18.4	19.6	12.4	10.3	11.4	5.3	3.5	4.4	2.6	1.5	1.9
3	20.5	17.3	18.9	12.1	9.9	10.9	5.4	4.8	5.1	1.8	0.4	1.2
4	20.0	16.7	18.3	12.3	9.9	11.1	5.1	4.5	4.8	3.2	1.3	1.9
5	19.6	16.4	18.0	12.9	11.0	11.9	5.3	3.6	4.3	2.6	0.9	1.6
6	18.9	16.6	17.7	13.8	11.8	12.8	4.9	3.2	3.9	2.9	1.0	1.8
7	18.9	16.7	17.8	13.6	12.2	12.9	4.4	2.8	3.4	3.8	1.4	2.2
8	18.4	16.1	17.3	14.0	11.9	12.7	3.5	1.9	2.6	3.7	1.8	2.6
9	17.6	15.7	16.7	13.0	11.0	12.0	2.6	1.1	1.7	3.8	2.5	3.2
10	15.7	13.4	14.5	12.7	10.5	11.5	1.6	0.5	1.1	5.0	3.2	3.9
11	13.8	11.7	12.8	12.3	10.2	11.2	2.7	0.9	1.6	4.2	2.4	3.2
12	13.3	11.1	12.1	11.2	9.6	10.4	2.8	1.2	1.8	3.8	2.0	2.8
13	12.3	9.9	11.1	10.1	9.1	9.7	1.6	0.0	0.7	3.6	1.7	2.5
14	13.2	10.4	11.7	10.5	8.3	9.4	1.0	-0.2	0.2	3.0	1.3	2.1
15	13.4	10.6	12.1	10.4	8.3	9.2	1.4	-0.2	0.5	2.2	0.8	1.6
16	13.5	11.0	12.4	10.1	8.0	9.0	0.9	-0.2	0.2	2.5	1.2	1.8
17	13.7	11.1	12.5	9.9	7.8	8.8	0.1	-0.2	-0.2	2.5	0.6	1.4
18	14.1	11.5	12.8	9.6	7.5	8.5	0.5	-0.2	-0.1	2.1	0.2	1.0
19	14.4	11.6	13.0	9.1	7.1	8.0	0.3	-0.2	-0.1	1.0	-0.2	0.1
20	13.9	11.4	12.7	8.2	6.3	7.2	0.2	-0.2	-0.1	0.6	-0.2	0
21	12.8	11.5	12.0	7.1	5.6	6.4	0.7	-0.2	0.1	0.2	-0.2	-0.2
22	13.9	11.0	12.3	6.6	5.9	6.3	2.0	0.2	0.8	0.2	-0.2	-0.2
23	13.8	11.3	12.5	6.8	5.0	5.6	0.9	-0.2	0.1	1.7	-0.2	0.4
24	13.4	10.9	12.1	5.7	4.1	4.9	-0.2	-0.2	-0.2	0.8	-0.2	0.0
25	12.1	9.6	10.9	5.7	4.4	5.1	-0.2	-0.2	-0.2	-0.1	-0.2	-0.2
26	11.9	9.0	10.4	5.0	3.4	4.0	-0.2	-0.2	-0.2	-0.1	-0.2	-0.2
27	11.7	9.3	10.5	4.4	2.9	3.5	0.8	-0.2	0.0	0.9	-0.2	0.2
28	13.6	10.4	11.9	3.2	1.6	2.3	1.0	-0.2	0.2	3.0	0.8	1.8
29	14.5	12.0	13.2	2.3	1.6	2.0	0.8	0.2	0.5	3.2	2.2	2.6
30	14.1	12.4	13.3	3.5	2.0	2.6	2.6	0.2	1.1	3.5	2.0	2.5
31	13.9	12.5	13.1	---	---	---	2.9	1.7	2.3	2.4	0.5	1.3
MONTH	22.0	9.0	14.0	14.0	1.6	8.4	5.4	-0.2	1.4	5.0	-0.2	1.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.2	-0.2	0.2	6.2	3.8	4.9	17.8	13.2	15.4	17.8	14.0	15.8
2	1.2	-0.2	0	4.9	2.7	3.8	17.6	13.4	15.5	18.2	13.4	15.6
3	0.9	-0.2	0.1	4.6	1.0	2.7	17.9	13.5	15.7	19.6	14.0	16.6
4	1.8	-0.2	0.5	4.8	0.9	2.8	18.8	14.1	16.4	20.8	15.0	17.8
5	2.3	-0.2	0.8	5.3	1.7	3.5	19.0	14.8	16.9	21.0	16.3	18.6
6	2.3	-0.2	0.8	6.2	2.8	4.6	17.1	14.0	15.6	21.3	16.2	18.8
7	2.4	-0.2	1.0	8.8	5.1	6.8	17.8	12.9	15.0	20.0	16.8	18.5
8	3.3	0.2	1.6	9.3	6.9	7.8	17.0	13.4	15.2	19.3	15.8	17.4
9	3.6	0.6	2.0	8.3	4.8	6.5	17.8	13.3	15.5	19.5	14.7	17.3
10	3.5	0.5	2.0	7.5	5.1	6.4	16.2	15.0	15.6	18.0	15.0	16.6
11	3.4	0.6	1.9	10.0	5.9	7.8	18.1	13.6	15.7	18.0	13.6	15.7
12	3.5	0.9	2.1	10.2	7.1	8.7	17.4	15.2	16.2	19.5	14.8	16.9
13	3.9	0.8	2.3	11.6	7.6	9.5	19.3	13.6	16.3	21.5	16.5	18.9
14	3.8	2.6	3.2	10.7	7.5	9.0	20.2	15.2	17.6	22.5	18.2	20.2
15	4.5	1.5	3.0	11.1	6.8	8.8	18.4	14.7	17.0	22.5	18.2	20.3
16	5.3	2.2	3.7	8.7	6.8	7.7	17.1	13.0	14.9	22.6	18.3	20.4
17	4.9	3.4	4.3	8.0	5.6	6.7	17.0	13.6	14.9	23.1	18.5	20.9
18	6.3	4.1	5.0	9.9	6.2	7.7	17.2	12.2	14.3	23.7	19.1	21.5
19	6.9	4.6	5.7	10.2	6.1	8.2	17.3	12.5	14.6	22.8	19.4	21.1
20	7.7	4.5	6.1	11.7	7.1	9.3	14.6	12.3	13.5	22.8	19.3	20.9
21	8.3	5.4	6.8	12.4	8.2	10.3	16.1	10.4	13.1	20.1	16.5	18.1
22	8.0	5.3	6.6	13.6	9.6	11.6	17.7	12.0	14.7	18.8	14.3	16.6
23	7.1	5.3	6.3	12.5	10.5	11.7	17.9	13.3	15.6	19.0	15.3	17.2
24	8.0	4.8	6.3	11.1	9.2	10.3	19.4	14.3	16.7	19.7	15.8	17.8
25	7.8	5.1	6.3	13.7	9.4	11.3	18.5	16.0	17.1	21.2	16.1	18.7
26	7.0	4.1	5.4	14.3	10.3	12.2	19.3	14.9	16.9	21.8	17.7	19.8
27	6.3	3.0	4.6	14.7	10.6	12.6	15.4	12.7	14.0	23.2	18.2	20.7
28	6.1	2.7	4.4	15.5	11.2	13.3	18.1	12.2	15.0	24.7	18.9	21.7
29	---	---	---	16.1	11.7	13.8	19.5	14.9	17.0	25.2	19.9	22.5
30	---	---	---	17.1	12.6	14.6	19.5	15.2	17.1	26.4	20.8	23.6
31	---	---	---	17.9	12.8	15.1	---	---	---	27.5	22.3	24.8
MONTH	8.3	-0.2	3.3	17.9	0.9	8.7	20.2	10.4	15.6	27.5	13.4	19.1

SAN JUAN RIVER BASIN

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09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	25.1	21.7	23.8	28.3	22.5	25.2	27.0	24.0	25.3	24.4	20.1	21.9
2	23.2	19.7	21.4	28.9	23.4	25.5	24.6	22.7	23.6	25.1	20.5	22.6
3	22.5	20.0	21.1	25.7	23.1	23.9	25.7	21.9	23.3	24.1	21.3	22.5
4	23.3	19.0	21.1	28.6	22.1	24.8	25.9	21.7	23.6	25.1	19.9	22.3
5	24.2	19.3	21.7	29.4	23.0	25.8	27.7	23.1	24.9	25.9	21.1	23.1
6	25.1	20.0	22.7	30.3	23.8	26.5	25.9	22.7	24.2	24.5	21.6	22.9
7	26.1	21.7	23.8	30.8	23.7	27.1	25.9	22.3	24.0	24.6	17.7	20.9
8	23.8	20.3	22.3	30.8	25.4	27.7	26.2	23.3	24.7	20.6	18.4	19.5
9	21.6	19.3	20.1	31.3	25.4	27.8	25.6	22.5	24.1	21.8	19.5	20.6
10	24.1	18.0	20.7	30.4	24.7	27.0	25.2	21.3	23.2	22.0	20.5	21.2
11	25.4	19.7	22.4	30.3	23.2	26.4	25.5	20.9	23.1	21.1	18.3	19.3
12	26.0	20.3	23.1	30.9	24.7	27.5	25.6	20.8	23.1	19.0	17.4	18.5
13	27.0	21.0	23.8	30.3	24.8	27.5	25.3	21.0	22.9	19.7	17.6	18.8
14	27.0	21.3	24.0	30.8	25.0	27.5	25.4	20.2	22.7	20.3	18.4	19.4
15	26.7	21.9	24.2	28.5	24.5	26.1	26.1	20.3	23.0	21.1	18.8	20.0
16	27.0	21.4	24.1	28.0	24.0	25.6	27.4	21.2	23.9	20.7	19.0	19.9
17	27.5	21.3	24.3	28.2	23.9	25.5	28.2	22.1	24.8	21.0	18.7	19.9
18	27.7	21.9	24.6	28.0	23.4	25.2	27.7	22.8	24.9	19.9	17.1	18.5
19	28.0	21.8	24.7	29.2	23.4	25.4	28.5	22.5	24.8	18.9	15.9	17.3
20	27.5	22.3	24.7	29.0	23.9	25.6	24.9	22.5	23.6	19.0	16.4	17.6
21	---	---	---	27.5	23.0	25.1	25.9	21.9	23.6	19.0	16.1	17.6
22	---	---	---	27.1	23.0	24.7	24.1	21.2	22.5	19.7	16.4	17.9
23	---	---	---	28.9	22.2	25.0	23.8	20.0	21.8	19.8	16.5	17.9
24	---	---	---	29.2	23.5	26.1	24.8	19.6	21.9	19.9	16.2	17.9
25	28.9	21.9	25.3	30.0	24.5	26.8	24.9	20.0	22.3	18.6	17.2	17.8
26	28.0	22.8	24.9	28.5	24.6	26.4	24.5	19.7	21.8	21.2	17.2	18.8
27	28.9	22.2	25.1	28.3	24.2	26.0	24.6	19.9	22.0	19.4	16.8	18.4
28	29.3	23.0	25.8	26.7	23.4	25.1	23.6	20.0	21.6	17.7	15.8	16.6
29	28.9	22.6	25.6	26.3	22.5	24.3	22.0	15.2	19.7	17.9	15.5	16.4
30	28.0	23.1	25.4	26.9	22.2	24.4	23.2	16.5	19.9	18.1	14.7	16.2
31	---	---	---	27.8	22.7	25.1	22.3	19.7	20.9	---	---	---
MONTH	---	---	---	31.3	22.1	25.9	28.5	15.2	23.1	25.9	14.7	19.4

LOCATION.--Lat 36°51'53", long 111°35'15", in NE1/4SE1/4 sec.13, T.40 N., R.7 E., Coconino County, Hydrologic Unit 14070006, in Navajo Indian Reservation, on left bank at head of Marble Gorge at Lees Ferry, just upstream from Paria River, 16 mi downstream from Glen Canyon Dam, 28 mi downstream from Utah-Arizona State line, and 61.5 mi upstream from Little Colorado River.

DRAINAGE AREA.--111,800 mi², approximately, including 3,959 mi² in Great Divide Basin in southern Wyoming, which is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Jan. 1895 to current year. Estimates of monthly and annual discharge only for some periods, published in WSP 1313.

REVISED RECORDS. --WSP 859: 1921-23. WSP 1313: 1914-21.

GAGE.--Water-stage recorder. Datum of gage is 3,106.16 ft above sea level. Prior to Jan. 19, 1923, nonrecording gages or reference points within 400 ft of present gage, at different datums.

REMARKS.--No estimated daily discharge. Records good. Flow regulated since Mar. 13, 1963, by Lake Powell, 16 mi upstream. Many diversions above Lake Powell for irrigation, municipal, and industrial use. No diversions or inflow between Lake Powell and the gage.

AVERAGE DISCHARGE.--51 years (water years 1912-62), 17,850 ft³/s, 12,930,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--1895-1962: Maximum discharge, 220,000 ft³/s June 18, 1921, gage height, 26.5 ft, from floodmarks, from rating curve extended above 120,000 ft³/s on basis of discharge computed for station near Grand Canyon; minimum, 750 ft³/s Dec. 27, 1924.
1963-2000: Maximum discharge, 97,300 ft³/s June 29, 1983, gage height, 18.14 ft; minimum daily, 700 ft³/s Jan. 23, 24, 1963, result of closing coffer dam at Glen Canyon Dam.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1868, about 300,000 ft³/s July 7, 1884, gage height, 31.5 ft, present site and datum, from floodmark at mouth of Paria River, from rating curve extended above 120,000 ft³/s on basis of discharge computed for flood of June 18, 1921, for station near Grand Canyon.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,000 ft³/s Aug. 7 at 1945, gage height, 10.39 ft; minimum daily, 7,070 ft³/s Sept. 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9900	10400	13500	11900	11600	10300	10600	10500	11900	15100	15200	9740
2	10200	10500	10700	13800	10100	9350	10500	10500	12200	15400	14900	7570
3	10100	9610	13600	13600	9570	9390	10500	11000	13200	15300	14400	8540
4	10200	8970	14100	13900	11100	9920	10400	10300	13300	13500	13800	8560
5	10200	10500	14200	12200	11300	10100	10500	9600	13100	14900	14700	8470
6	10200	10500	13800	11200	11100	10200	9610	10700	13000	14600	15100	8460
7	7750	10300	13800	13500	10900	10200	9490	10600	13100	13600	15300	7630
8	9920	10100	12900	13700	11000	10300	10500	10600	12400	14700	15400	7070
9	10400	10400	10200	13700	10200	9570	10500	10600	12000	14800	15100	8390
10	10400	10100	13400	13700	9570	9390	10500	10700	13100	14900	14100	8590
11	10300	8870	13700	13800	11400	10200	10800	10100	13100	15500	13800	8660
12	10300	10400	13700	12400	11400	10200	10600	9550	13100	15600	14900	8600
13	10100	10400	13600	11100	11300	10200	9760	10400	13100	15400	15000	8640
14	7670	10400	13600	13300	11300	10200	9480	10600	13100	13600	15000	8050
15	9910	10500	13300	13400	11300	10300	10500	10600	12400	15300	15100	7540
16	10300	10000	10500	13900	10100	9620	10600	10700	11900	15400	15200	8420
17	10300	10200	13300	13800	9780	9640	10600	10600	13100	15400	14400	8440
18	10300	9240	13600	13700	11300	10600	10700	10300	13100	15400	14000	8540
19	10300	10500	13800	12000	11400	10200	10700	9610	13100	15100	15100	8590
20	10100	10500	14000	11000	11400	10100	9910	10200	13200	15200	15000	8650
21	7700	10400	13800	13600	11300	10200	9560	10600	13300	13700	15100	8000
22	10000	9440	13200	13800	11300	10200	10700	10600	12500	15000	15600	7520
23	10200	10400	10700	13700	10200	9240	10700	10500	11900	15300	13600	8340
24	10300	10400	13400	13700	9740	9430	10700	8330	13100	15100	14300	8430
25	10300	9310	10900	13700	11300	9980	10700	8170	13100	15100	13700	8460
26	10300	11000	13300	11900	11400	10000	10700	8160	13100	15200	15100	8440
27	10200	11000	13700	12000	11200	10200	9800	8160	13100	15100	15200	8440
28	7700	11100	13900	13700	11100	10100	9500	8200	13100	13800	15500	7600
29	9910	10900	13100	13400	---	10100	10500	8140	12400	15000	15100	7400
30	10200	11000	11200	13500	---	9350	10700	8200	12000	15200	15100	8310
31	10300	---	13700	13500	---	9380	---	8210	---	15300	14700	---
TOTAL	305960	307340	404200	406100	304660	308160	310310	305030	384100	462500	457900	248090
MEAN	9870	10240	13040	13100	10880	9941	10340	9840	12800	14920	14770	8270
MAX	10400	11100	14200	13900	11600	10600	10800	11000	13300	15600	15500	9740
MIN	7670	8870	10200	11000	9570	9240	9480	8140	11900	13500	13600	7070
AC-FT	606900	609600	801700	805500	604300	611200	615500	605000	761900	917400	908200	492100
CAL YR 2001	TOTAL 4079080		MEAN 11180	MAX 14900	MIN 6800		AC-FT 8091000					
WTR YR 2002	TOTAL 4204350		MEAN 11520	MAX 15600	MIN 7070		AC-FT 8339000					

09381500 PARIA RIVER NEAR CANNONVILLE, UT

LOCATION.--Lat 37°28'52", long 112°01'15", in NE¹/₄SE¹/₄SE¹/₄ sec. 20, T. 38 S., R. 2 W., Garfield County, Hydrologic Unit 14070007, Grand Staircase-Escalante National Monument, on left bank about 0.5 mi downstream of Little Dry Valley and about 6.5 mi south of Cannonville.

DRAINAGE AREA.--198 mi².

PERIOD OF RECORD.--December 1950 to September 1955. Annual maximums, water years 1959-74. December 2001 to September 30, 2002.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,480 ft above NGVD of 1929, from topographic map

REMARKS.--Records poor. Several diversions above station for irrigation and stock watering.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft³/s, Aug 31, 1963, gage height, 19.25 ft; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 689 ft³/s, Sep 7, gage height, 6.37 ft; no flow on many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	e6.0	e6.0	e5.5	e2.0	e0.40	e0.38	0.00	0.00	0.00
2	---	---	---	e6.0	e6.0	e5.5	e2.0	e0.50	e0.36	0.00	0.00	0.00
3	---	---	---	e6.0	e6.5	e6.2	e2.0	e0.80	e0.41	0.00	0.00	0.00
4	---	---	---	e7.0	e7.5	e6.8	e0.55	e0.52	e0.29	0.00	0.0	0.00
5	---	---	---	e8.5	e8.0	e8.0	e1.1	e0.50	e0.22	0.00	0.00	0.00
6	---	---	---	e8.5	e6.5	e7.8	e1.8	e0.32	e0.23	0.00	0.00	0.26
7	---	---	e12	e7.0	e5.5	e9.0	e2.7	e0.31	e0.21	0.00	0.00	196
8	---	---	e12	e7.0	e7.0	e9.5	e3.4	e0.14	e0.15	0.00	0.00	17
9	---	---	e12	e7.0	e8.8	e4.5	e4.3	e0.30	e0.11	0.00	0.00	5.0
10	---	---	e11	e7.5	e9.1	e6.9	e2.4	e0.50	e0.21	0.00	0.00	0.23
11	---	---	e11	e8.5	e9.1	e6.7	e1.7	e1.5	e0.29	0.00	0.00	3.8
12	---	---	e8.0	e10	e10	e9.0	e1.5	e1.1	e0.24	0.00	0.00	15
13	---	---	e7.0	e11	e10	e10	e3.0	e0.85	e0.16	0.00	0.00	1.4
14	---	---	e7.5	e10	e10	e9.0	e0.85	e0.70	e0.09	0.00	0.00	0.13
15	---	---	e7.5	e11	e9.8	e8.3	0.67	e0.58	e0.06	0.88	0.00	0.0
16	---	---	e7.0	e9.5	e9.0	e5.6	e2.7	e0.48	0.00	4.4	0.00	0.0
17	---	---	e7.5	e7.0	e8.6	e5.1	e0.65	e0.41	0.00	8.4	0.00	0.0
18	---	---	e6.5	e5.5	e8.3	e4.7	e1.5	e0.33	0.00	0.69	0.00	0.00
19	---	---	e5.5	e4.5	e8.0	e4.5	e1.8	e0.32	0.00	0.08	0.00	0.00
20	---	---	e5.5	e4.5	e8.3	e7.0	e2.1	e0.29	0.00	0.00	0.00	0.00
21	---	---	e5.0	e5.0	e8.1	e10	e1.9	e0.12	0.00	0.00	0.00	0.00
22	---	---	e5.0	e5.5	e8.0	e9.0	e1.6	e0.35	0.00	0.00	0.00	0.00
23	---	---	e4.8	e5.5	e8.0	e3.0	e1.5	e0.51	0.00	0.00	0.00	0.00
24	---	---	e4.6	e6.0	e8.0	e5.0	e1.8	e0.49	0.00	0.00	0.00	0.00
25	---	---	e4.4	e5.5	e8.0	e7.0	e1.5	e0.48	0.00	0.0	0.00	0.00
26	---	---	e4.6	e5.5	e8.5	e5.6	e1.0	e0.50	0.00	0.00	0.00	0.00
27	---	---	e4.6	e4.5	e8.5	e3.5	e1.0	e0.54	0.00	0.00	0.00	0.00
28	---	---	e6.0	e5.0	e8.5	e2.7	e0.66	e0.54	0.00	0.00	0.00	0.83
29	---	---	e6.0	e5.5	---	e2.1	e0.50	e0.45	0.00	0.00	0.00	74
30	---	---	e6.0	e5.5	---	e2.0	e0.50	e0.32	0.00	0.00	0.00	17
31	---	---	e6.0	e6.0	---	e2.0	---	e0.33	---	0.00	0.00	---
TOTAL	---	---	---	211.5	227.6	191.5	50.68	15.48	3.41	14.45	0.00	330.65
MEAN	---	---	---	6.823	8.129	6.177	1.689	0.499	0.114	0.466	0.000	11.02
MAX	---	---	---	11	10	10	4.3	1.5	0.41	8.4	0.00	196
MIN	---	---	---	4.5	5.5	2.0	0.50	0.12	0.00	0.00	0.00	0.00
AC-FT	---	---	---	420	451	380	101	31	6.8	29	0.00	656

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-55, 2002, BY WATER YEAR (WY)

	MEAN	6.089	8.058	9.764	8.029	10.90	14.67	6.357	1.944	0.764	9.475	17.61	6.330
MAX	13.8	9.89	18.0	13.2	17.9	29.3	21.1	4.80	3.73	38.9	46.4	14.8	
(WY)	1955	1954	1953	1953	1952	1952	1952	1951	1952	1953	1955	1954	
MIN	2.75	5.36	5.09	3.50	4.57	6.18	1.69	0.20	0.010	0.47	0.000	0.057	
(WY)	1952	1955	1955	1955	1955	2002	1955	1955	1955	2002	2002	1955	

SUMMARY STATISTICS

WATER YEARS 1951-55, 2002

ANNUAL MEAN 9.690
 HIGHEST ANNUAL MEAN 12.0
 LOWEST ANNUAL MEAN 6.71
 HIGHEST DAILY MEAN 566 Aug 16 1955
 LOWEST DAILY MEAN 0.00 Jul 4 1951
 ANNUAL SEVEN-DAY MINIMUM 0.00 Jul 4 1951
 ANNUAL RUNOFF (AC-FT) 7020
 10 PERCENT EXCEEDS 18
 50 PERCENT EXCEEDS 5.0
 90 PERCENT EXCEEDS 0.00

e Estimated

09382000 PARIA RIVER AT LEES FERRY, AZ

LOCATION.--Lat 36°52'20", long 111°35'38", in NW¹/₄NE¹/₄ sec.13, T.40 N., R.7 E., Coconino County, Hydrologic Unit 14070007, on left bank 0.6 mi northwest of Lees Ferry, and 1.1 mi upstream from mouth.

DRAINAGE AREA.--1,410 mi².

PERIOD OF RECORD.--Oct. 1923 to current year.

REVISED RECORDS.--WSP 1925: 1958(M), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,123.68 ft above sea level. Prior to Oct. 5, 1925 nonrecording gage at site 2,000 ft upstream at different datum. Oct. 13, 1925, to Sept. 11, 1929, nonrecording gage at present site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 3,300 acres, mostly in southern Utah.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,100 ft³/s Oct. 5, 1925, gage height, 16.3 ft, from floodmark, from rating curve extended above 2,000 ft³/s on basis of float-area measurement of peak flow; maximum gage height, 16.65 ft Sept. 9, 1980; minimum daily discharge, 1 ft³/s in most years prior to 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft³/s and (or) maximum(*)

Date	Time	Discharge (ft ³ /s)	Gage height. (ft)
Sep 7	1130	*554	*7.36

Minimum daily discharge, 2.4 ft³/s Aug. 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	8.7	16	23	7.7	13	4.4	3.7	3.4	2.9	2.7	3.1
2	4.9	9.1	14	22	8.4	11	4.5	3.8	3.1	2.8	3.0	3.0
3	4.8	9.1	18	20	7.4	9.4	5.1	4.1	3.5	3.0	47	3.2
4	4.8	9.0	17	19	10	11	4.9	4.0	3.6	3.2	e32	3.4
5	5.0	9.0	18	19	13	15	5.2	3.8	3.4	3.1	e6.2	3.4
6	5.1	9.3	15	15	16	15	5.4	3.9	3.4	3.2	e4.6	4.2
7	10	9.9	14	16	16	14	5.3	3.7	3.4	2.8	e3.7	e157
8	5.8	10	15	20	17	14	5.4	3.5	3.1	2.8	3.1	e342
9	13	14	14	20	18	15	5.3	3.5	2.8	2.8	2.9	e153
10	11	14	13	20	15	11	5.5	3.8	2.9	2.8	2.8	e41
11	7.3	17	15	18	12	11	4.9	3.6	3.2	2.9	2.7	e18
12	6.1	16	17	15	15	12	4.8	3.7	3.3	2.9	2.6	e14
13	7.0	15	15	17	18	10	4.8	3.9	3.4	2.8	2.4	67
14	7.3	15	9.9	18	18	11	5.4	4.0	3.4	2.8	2.5	25
15	8.4	16	7.4	16	17	7.9	5.5	3.9	3.2	2.7	2.6	15
16	8.5	15	e6.2	17	16	8.3	4.5	3.9	3.0	2.8	2.7	9.8
17	8.9	15	e14	17	16	12	4.5	3.6	3.1	2.9	2.5	7.3
18	8.8	14	e17	e12	17	13	4.4	3.7	3.0	2.9	2.5	6.5
19	8.1	14	9.6	e10	17	11	4.7	3.8	3.1	3.1	2.5	6.2
20	7.7	14	10	e9.0	16	10	5.3	3.8	3.3	3.1	3.3	6.2
21	7.4	14	11	e10	15	9.5	5.2	3.7	3.0	3.1	3.6	5.6
22	7.8	14	13	e10	15	8.7	4.9	3.6	3.0	3.0	2.7	5.4
23	8.0	14	16	21	14	7.9	4.5	4.0	3.0	2.8	2.7	5.2
24	7.2	15	14	9.9	14	7.2	4.4	4.0	3.3	2.8	2.8	5.0
25	7.6	23	11	8.8	14	7.2	4.0	4.1	3.2	4.4	2.8	4.7
26	7.5	22	12	10	13	7.6	3.9	4.1	3.2	3.1	2.8	4.7
27	7.9	16	13	12	12	6.9	3.9	4.0	3.2	3.0	2.7	4.5
28	8.3	12	16	19	13	6.2	4.1	3.9	3.2	2.8	2.9	4.3
29	8.5	9.5	27	29	---	4.9	3.9	3.7	3.1	2.6	3.0	37
30	8.5	16	30	19	---	4.6	3.8	3.6	3.0	2.8	3.0	e163
31	8.7	---	25	17	---	4.6	---	3.5	---	2.8	3.0	---
TOTAL	234.8	408.6	463.1	508.7	400.5	309.9	142.4	117.9	95.8	91.5	166.3	1127.7
MEAN	7.574	13.62	14.94	16.41	14.30	9.997	4.747	3.803	3.193	2.952	5.365	37.59
MAX	13	23	30	29	18	15	5.5	4.1	3.6	4.4	47	342
MIN	4.8	8.7	6.2	8.8	7.4	4.6	3.8	3.5	2.8	2.6	2.4	3.0
AC-FT	466	810	919	1010	794	615	282	234	190	181	330	2240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2002, BY WATER YEAR (WY)

	MEAN	30.28	23.33	20.91	22.49	37.46	38.50	20.68	10.46	7.192	24.14	53.63	53.01
MAX	288	123	69.4	96.7	242	216	93.3	52.4	58.3	172	237	424	
(WY)	1926	1958	1967	1969	1980	1979	1979	1934	1972	1936	1932	1927	
MIN	5.99	10.1	8.81	8.03	14.3	8.86	4.75	2.03	1.97	2.32	4.51	4.18	
(WY)	1956	1991	1931	1931	2002	1972	2002	1927	1926	1939	1976	1968	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1924 - 2002

ANNUAL TOTAL	5954.2	4067.2	
ANNUAL MEAN	16.31	11.14	28.47
HIGHEST ANNUAL MEAN			65.1
LOWEST ANNUAL MEAN			11.1
HIGHEST DAILY MEAN	189	342	6750
LOWEST DAILY MEAN	2.7	2.4	1.0
ANNUAL SEVEN-DAY MINIMUM	2.9	2.5	1.0
ANNUAL RUNOFF (AC-FT)	11810	8070	20620
10 PERCENT EXCEEDS	28	17	42
50 PERCENT EXCEEDS	12	7.0	14
90 PERCENT EXCEEDS	3.6	2.9	3.7

e Estimated

LOCATION.--Lat 37°06'02", long 112°32'50", in NE¹/₄NE¹/₄SW¹/₄ sec. 5, T. 43 S., R. 6 W., Kane County, Hydrologic Unit 15010003, on left bank at upstream side of bridge on U.S. Highway 89, 300 ft upstream from Tiny Canyon and 3.5 mi north of Kanab.

REVISED RECORDS.--WDR UT-98-1: 1997, daily values.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,060 ft above NGVD of 1929, from topographic map. A crest-stage gage from July 22, 1959 to September 30, 1968 at different datum. July 6, 1979 to September 18, 1984 water-stage recorder at same site, different datum.

REMARKS.--Records poor. Several diversions above station for irrigation and stock watering.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,030 ft³/s, Sep 8, 1961, gage height, 8.39 ft, from rating curve extended above 31 ft³/s on basis of slope area measurement at gage height, 7.09 ft; minimum daily discharge, 2.9 ft³/s, Jul 27, 2000.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 28	1200	*14	*5.68				

Minimum daily discharge, 3.3 ft³/s, Jan 23, Jun 1, Aug 20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	4.5	6.6	6.1	e3.9	6.3	10	7.8	3.3	5.2	4.5	4.2
2	5.5	4.6	6.2	6.2	e4.0	7.7	9.2	7.8	4.0	5.5	5.0	4.4
3	5.7	4.6	5.8	6.4	e4.6	8.7	11	7.3	5.8	6.0	5.6	4.5
4	5.7	4.7	6.5	6.4	5.0	6.8	9.4	6.5	6.3	5.8	5.0	4.5
5	5.7	4.7	6.0	6.2	5.6	6.7	9.1	6.1	6.4	5.9	4.8	4.4
6	5.6	4.7	5.9	6.0	6.1	6.1	7.7	5.8	5.4	5.5	4.9	5.0
7	5.8	4.8	5.7	5.6	5.7	6.5	7.1	6.8	5.7	5.9	4.8	7.1
8	5.8	4.9	5.6	5.8	5.4	7.1	6.9	7.8	5.0	5.9	4.7	6.2
9	5.5	5.0	5.7	5.7	5.1	7.5	7.4	7.8	4.7	6.3	4.3	5.5
10	5.2	4.7	6.1	5.8	5.6	7.8	7.6	8.3	5.4	6.0	3.8	5.8
11	5.3	4.5	6.0	5.7	5.1	7.5	8.6	8.6	5.6	5.6	3.4	5.8
12	5.4	4.5	6.1	5.6	4.6	7.8	7.7	8.9	5.1	5.9	3.6	5.5
13	5.4	4.9	e5.8	5.8	5.1	8.2	7.9	8.7	4.9	5.9	3.5	4.5
14	5.4	4.9	e6.1	5.5	4.2	9.9	7.6	8.4	4.7	5.9	3.7	4.5
15	5.3	4.7	e6.0	4.9	4.5	8.6	7.3	7.4	5.1	6.5	3.8	4.8
16	5.2	4.6	e5.8	5.0	5.2	10	6.9	6.4	4.7	7.2	3.9	4.7
17	5.1	4.5	e5.9	5.6	5.0	11	7.7	5.9	4.9	7.4	3.5	4.6
18	4.8	4.7	e6.0	5.6	5.0	10	7.3	5.5	4.9	6.9	4.0	4.8
19	4.8	5.0	e6.1	e5.4	5.2	9.1	7.2	5.9	4.8	7.4	3.9	4.6
20	4.7	5.3	e6.5	5.7	6.4	11	7.8	7.6	5.0	7.9	3.3	4.7
21	4.8	5.3	e6.3	4.3	5.8	9.3	8.3	8.4	5.4	7.4	3.9	4.6
22	4.9	5.3	e6.1	3.6	6.3	9.8	7.1	8.3	5.6	6.7	4.1	4.4
23	4.7	5.5	e6.0	e3.3	7.1	11	6.3	10	5.9	5.6	4.2	4.4
24	4.5	6.3	e5.5	e3.6	7.2	11	6.5	10	6.3	6.4	4.0	4.4
25	5.0	7.5	e5.4	e3.9	8.0	10	6.3	9.5	5.8	6.6	3.7	4.3
26	4.7	7.2	e5.3	4.4	7.3	9.3	5.8	9.1	5.8	6.3	4.1	4.0
27	4.6	7.0	e5.3	5.1	7.7	11	5.9	8.9	5.7	5.6	4.3	4.1
28	4.5	7.3	e5.8	4.2	7.3	9.8	7.1	8.2	5.5	5.3	4.4	4.1
29	4.5	7.1	e6.2	4.4	---	9.4	8.0	5.8	5.5	5.2	4.1	4.6
30	4.5	6.7	6.6	e4.0	---	9.4	6.9	4.2	5.6	5.0	4.3	5.1
31	4.3	---	6.2	e3.9	---	9.4	---	3.6	---	4.7	4.6	---
TOTAL	158.6	160.0	185.1	159.7	158.0	273.7	229.6	231.3	158.8	189.4	129.7	143.1
MEAN	5.116	5.333	5.971	5.152	5.643	8.829	7.653	7.461	5.293	6.110	4.184	4.770
MAX	5.8	7.5	6.6	6.4	8.0	11	11	10	6.4	7.9	5.6	7.1
MIN	4.3	4.5	5.3	3.3	3.9	6.1	5.8	3.6	3.3	3.7	3.3	3.8
AC-FT	315	317	367	317	313	543	455	459	315	376	257	288

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2002, BY WATER YEAR (WY)

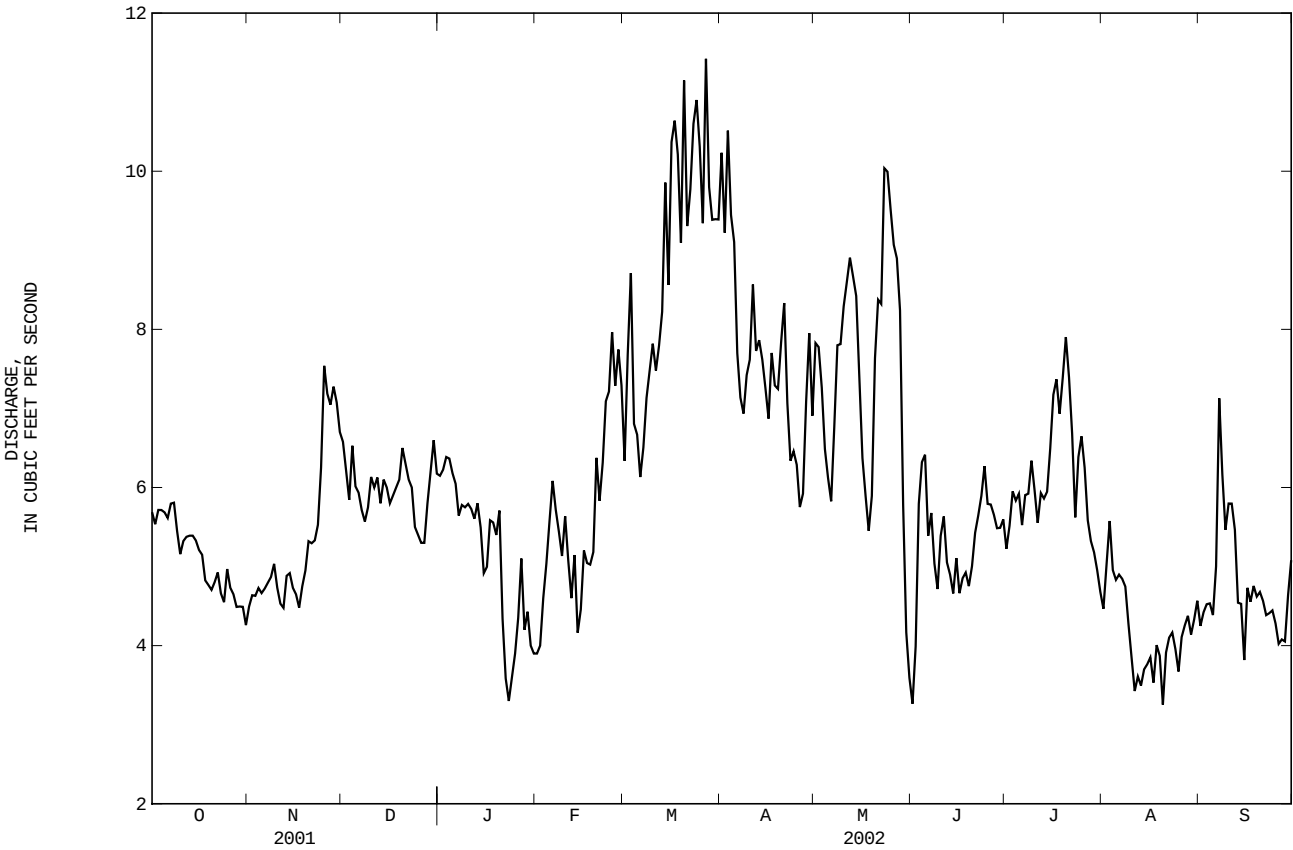
MEAN	10.43	9.956	10.80	12.36	15.91	23.83	22.39	9.655	6.963	7.112	8.228	9.971
MAX	25.7	15.2	21.7	27.9	45.1	72.4	132	27.6	12.1	13.8	16.5	28.1
(WY)	1982	1988	1980	1997	1980	1983	1980	1980	1981	1981	1981	1998
MIN	5.12	5.33	5.31	5.15	5.64	8.83	6.81	5.62	4.36	3.90	4.07	4.77
(WY)	2002	2002	1990	2002	2002	2002	1990	2001	1986	2000	1995	2002

KANAB CREEK BASIN

09403600 KANAB CREEK NEAR KANAB, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1980 - 2002	
ANNUAL TOTAL	2821.7		2177.0		12.27	
ANNUAL MEAN	7.731		5.964		28.4	1980
HIGHEST ANNUAL MEAN					5.96	2002
LOWEST ANNUAL MEAN					354	Apr 6 1980
HIGHEST DAILY MEAN	54	Sep 17	11	Mar 17	2.9	Jul 27 2000
LOWEST DAILY MEAN	3.2	Aug 5	3.3	Jan 23	3.0	Jun 13 1986
ANNUAL SEVEN-DAY MINIMUM	3.5	Jul 30	3.6	Aug 11		
ANNUAL RUNOFF (AC-FT)	5600		4320		8890	
10 PERCENT EXCEEDS	16		8.3		19	
50 PERCENT EXCEEDS	5.7		5.7		8.9	
90 PERCENT EXCEEDS	4.3		4.2		5.3	

e Estimated



LOCATION.--Lat 37°20'22", long 112°36'13", in SE¹/₄NE¹/₄NW¹/₄ sec. 14, T. 40 S., R. 7 W., Kane County, Hydrologic Unit 15010008, on right bank 50 ft downstream from Lydiás Creek, and 1.0 mi north of Glendale on U.S. Highway 89.

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

GAGE.--Water-stage recorder and artificial control. Elevation of gage is 5,900 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. A few small diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 640 ft³/s, Jul 27, 1976, gage height, 4.14 ft, maximum gage height, 4.68 ft, Jul 10, 1999, affected by backwater, discharge unknown; minimum discharge, 2.9 ft³/s, several days in May and Jun 1989.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 3	1400	*19	*1.26				

Minimum discharge, 3.0 ft³/s, on several days in Aug and Sep.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	9.2	14	e16	e11.5	15	11	6.7	3.8	3.6	3.9	3.0
2	6.6	8.8	14	e15	e12	14	11	6.7	3.9	3.6	3.9	3.0
3	6.4	9.3	14	e15	e11.5	14	9.9	6.4	4.0	3.7	4.0	3.2
4	6.6	9.4	16	e15	e11.5	15	9.1	6.0	3.9	3.9	3.9	3.1
5	6.8	8.6	14	e15	11	15	8.7	6.3	4.4	3.7	3.8	3.2
6	6.8	8.7	14	e15.5	11	15	8.7	6.2	4.5	3.6	3.7	6.3
7	7.0	9.1	14	e16	11	17	8.9	6.8	4.2	3.6	3.0	9.2
8	7.4	8.8	13	e16	12	17	8.8	5.3	4.1	3.6	3.0	5.8
9	7.6	8.4	13	e15	14	16	8.9	5.2	4.0	3.8	3.2	6.1
10	7.5	9.5	14	e15	14	16	8.7	5.2	4.0	4.0	3.4	7.9
11	7.9	9.2	14	e14.5	15	16	7.6	5.9	4.0	3.9	3.3	6.9
12	8.6	9.2	14	e15	15	16	8.7	6.2	4.1	3.9	3.2	6.9
13	9.3	9.7	13	e14.5	15	16	9.9	6.3	3.9	4.0	3.2	6.2
14	7.7	10	14	e14.5	16	15	8.5	5.4	3.9	4.0	3.3	6.1
15	7.7	9.6	14	e13.5	16	15	8.5	4.9	3.8	4.0	3.3	5.1
16	7.5	9.8	13	e13	16	15	8.2	4.6	3.6	4.2	3.3	5.5
17	7.5	9.8	14	e12	16	16	8.5	4.8	3.6	4.2	3.2	4.9
18	7.6	9.6	14	e11.5	16	16	8.0	4.8	3.7	4.2	3.2	5.0
19	8.3	10	14	e11.5	16	16	7.7	5.3	3.6	4.2	3.3	4.9
20	8.5	10	14	e12.5	17	16	8.1	5.1	3.6	4.4	3.3	4.8
21	8.6	11	14	e11.5	17	16	8.6	4.9	3.6	4.6	3.6	4.9
22	8.8	11	14	e11	17	15	8.2	5.3	3.6	4.5	3.7	4.9
23	9.2	11	14	e11	17	13	7.1	5.5	3.7	4.5	3.6	4.8
24	8.8	11	14	e12	17	14	6.8	5.2	3.7	4.6	3.2	4.8
25	9.4	13	14	e13	16	14	6.6	4.6	3.6	4.7	3.2	5.0
26	10	12	14	e14	15	14	6.9	5.0	3.6	4.1	3.2	5.1
27	9.1	12	14	e14	16	13	8.8	4.8	3.7	4.1	3.3	5.0
28	8.5	12	e15	e13	16	13	8.5	4.3	3.6	4.2	3.1	5.4
29	8.5	14	e16	e12	---	13	7.5	4.0	3.6	4.0	3.0	8.7
30	8.6	14	e16	e11	---	12	7.0	3.9	3.7	3.8	3.0	7.2
31	10	---	e16	e11	---	11	---	3.8	---	3.8	3.0	---
TOTAL	249.1	307.7	439	419.5	408.5	459	253.4	165.4	115.0	125.0	104.3	162.9
MEAN	8.035	10.26	14.16	13.53	14.59	14.81	8.447	5.335	3.833	4.032	3.365	5.430
MAX	10	14	16	16	17	17	11	6.8	4.5	4.7	4.0	9.2
MIN	6.3	8.4	13	11	11	11	6.6	3.8	3.6	3.6	3.0	3.0
AC-FT	494	610	871	832	810	910	503	328	228	248	207	320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2002, BY WATER YEAR (WY)

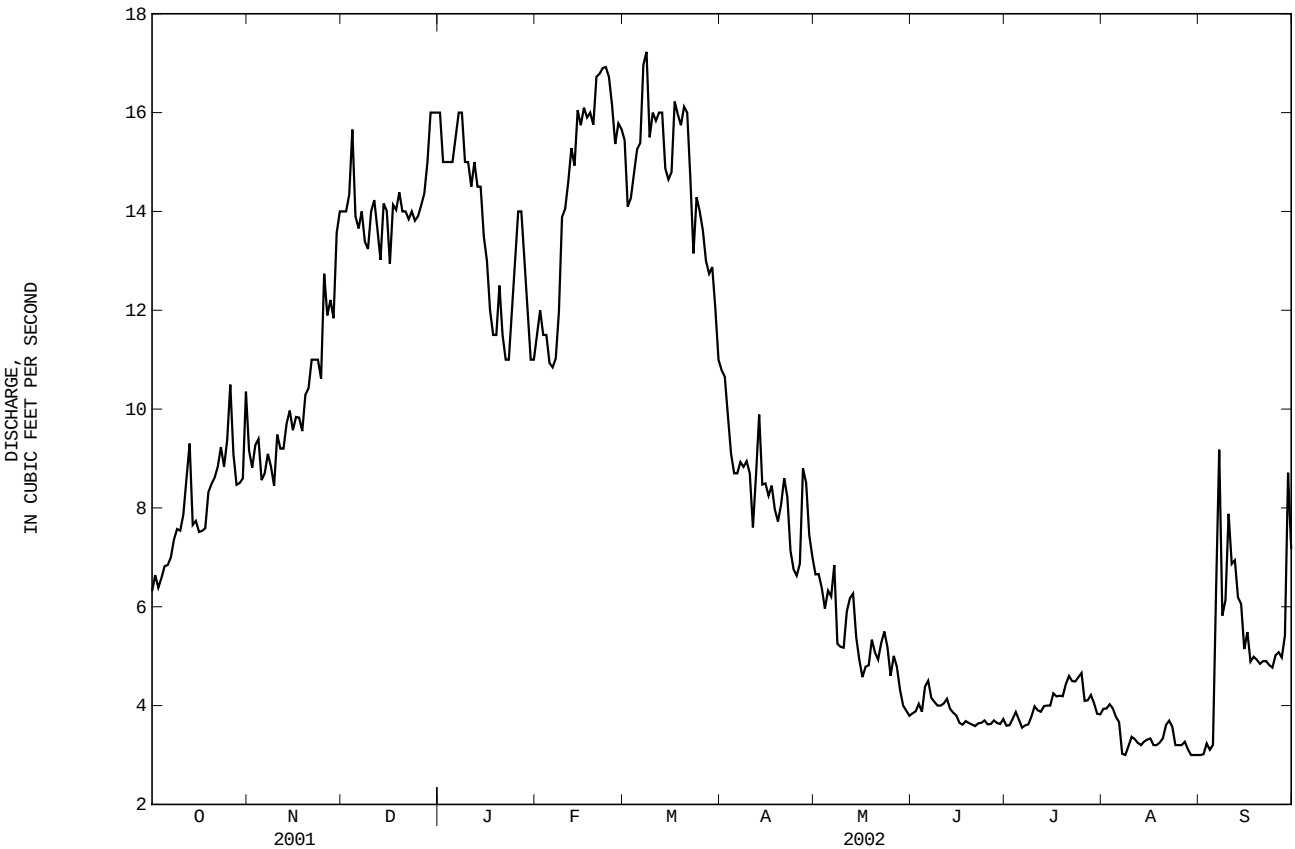
MEAN	13.37	15.09	15.86	16.39	18.81	24.29	35.75	28.31	14.44	10.94	10.67	10.80
MAX	22.5	24.6	30.2	26.2	36.4	54.3	145	131	43.6	28.3	26.6	24.7
(WY)	1984	1984	1967	1980	1980	1993	1980	1980	1980	1983	1983	1980
MIN	6.60	8.38	9.58	9.40	9.90	11.5	8.45	5.34	3.83	4.03	3.36	5.10
(WY)	1990	1990	1990	1991	1991	1999	2002	2002	2002	2002	2002	1989

VIRGIN RIVER BASIN

09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1967 - 2002	
ANNUAL TOTAL	3874.6		3208.8		17.87	
ANNUAL MEAN	10.62		8.791		46.2	
HIGHEST ANNUAL MEAN					8.26	
LOWEST ANNUAL MEAN					285	
HIGHEST DAILY MEAN	25	Apr 12	17	Feb 20	3.0	Apr 21 1980
LOWEST DAILY MEAN	4.4	Sep 4	3.0	Aug 7	3.0	Aug 7 2002
ANNUAL SEVEN-DAY MINIMUM	4.5	Sep 4	3.0	Aug 28	3.0	Aug 28 2002
ANNUAL RUNOFF (AC-FT)	7690		6360		12950	
10 PERCENT EXCEEDS	16		15		26	
50 PERCENT EXCEEDS	9.6		8.5		14	
90 PERCENT EXCEEDS	5.4		3.6		6.9	

e Estimated



09404700 EAST FORK VIRGIN RIVER NEAR MOUNT CARMEL JUNCTION, UT

LOCATION.--Lat 37°12'32", long 112°41'12", in SW¹/₄SE¹/₄ sec. 25, T. 41 S., R. 8 W., Kane County, Hydrologic Unit 15010008, on left bank 0.9 mi downstream of State Barn Wash, and 1.0 mi south of Mount Carmel Junction.

DRAINAGE AREA.--179 mi².

PERIOD OF RECORD.--October 1992 to September 2002 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,140 above NGVD of 1929, from topographic map. Prior to June 17, 1998, water-stage recorder and crest stage gage 100 ft downstream at same datum.

REMARKS.--Records good except for discharges less than 5 ft³/s, which are fair, and estimated daily discharges, which are poor. Many diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,310 ft³/s, Aug 3, 2001, gage height, 8.95 ft, from rating curve extended above 44 ft³/s on basis of slope-area measurement; no flow many days Jul to Sep, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 29	1445	*32	*2.91				

No flow many days Jul to Sep.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.61	7.5	17	19	e16	15	4.5	1.9	1.4	0.43	0.00	0.00
2	0.43	6.6	18	18	e17	14	4.0	2.1	1.6	0.39	0.00	0.00
3	0.52	6.8	18	18	e18	14	3.3	2.0	1.6	0.45	0.00	0.00
4	0.86	7.4	18	18	18	15	2.3	2.1	1.2	0.40	0.00	0.00
5	0.81	6.3	18	e18	18	15	1.9	2.1	0.87	0.37	0.00	0.00
6	1.3	7.4	17	18	18	14	2.0	1.6	0.91	0.31	0.00	0.00
7	2.7	7.9	18	19	18	15	2.4	1.6	0.80	0.43	0.00	1.3
8	2.4	9.1	18	20	17	16	1.4	1.9	0.77	0.41	0.00	0.52
9	2.0	7.8	18	21	17	14	1.2	1.5	0.73	0.31	0.00	0.00
10	2.3	9.6	18	20	17	14	1.8	1.6	0.90	0.30	0.00	0.80
11	2.8	9.5	17	19	17	14	1.7	1.7	0.80	0.25	0.00	1.7
12	3.6	10	e18	19	18	14	2.4	1.9	0.75	0.22	0.00	1.8
13	4.5	9.7	e20	19	17	14	3.5	1.5	0.68	0.23	0.00	0.02
14	3.6	10	e22	18	17	14	2.4	1.4	0.65	0.21	0.00	0.03
15	2.5	11	e20	18	17	13	2.0	1.6	0.60	0.22	0.00	0.15
16	2.3	12	e18	18	17	14	2.5	1.6	0.53	0.16	0.00	0.00
17	2.6	10	e18	18	17	15	1.6	1.6	0.49	0.29	0.00	0.09
18	2.8	9.9	e19	19	18	15	1.5	1.5	0.42	0.20	0.00	0.00
19	2.5	10	e19	e21	17	14	2.1	1.6	0.35	0.08	0.00	0.03
20	2.8	12	e20	e23	17	13	2.3	1.5	0.42	0.00	0.00	0.00
21	2.9	13	20	e24	17	12	3.0	1.8	0.56	0.00	0.00	0.00
22	3.7	13	e18	e22	17	12	3.1	1.5	0.36	0.00	0.00	0.00
23	3.3	14	e18	17	17	12	2.3	1.6	0.34	0.00	0.00	0.00
24	4.7	16	e18	e21	17	9.5	1.9	1.5	0.72	0.00	0.00	0.04
25	4.3	18	e18	e21	16	7.7	2.0	1.5	0.62	0.00	0.00	0.00
26	5.1	18	e18	19	15	8.4	2.1	1.5	0.54	e0.00	0.00	0.00
27	5.9	e18	18	18	16	6.3	2.5	1.5	0.58	e0.00	0.00	0.00
28	4.5	e18	18	18	16	5.5	3.4	1.6	0.53	e0.00	0.00	0.01
29	6.2	17	19	18	---	5.2	2.2	1.6	0.50	e0.00	0.00	3.9
30	5.0	18	19	18	---	5.6	2.2	1.7	0.47	e0.00	0.00	1.8
31	6.3	---	19	e16	---	4.7	---	1.5	---	e0.00	0.00	---
TOTAL	95.83	343.5	572	593	477	374.9	71.5	51.6	21.69	5.66	0.00	12.19
MEAN	3.091	11.45	18.45	19.13	17.04	12.09	2.383	1.665	0.723	0.183	0.000	0.406
MAX	6.3	18	22	24	18	16	4.5	2.1	1.6	0.45	0.00	3.9
MIN	0.43	6.3	17	16	15	4.7	1.2	1.4	0.34	0.00	0.00	0.00
AC-FT	190	681	1130	1180	946	744	142	102	43	11	0.00	24

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

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	13.24	19.31	20.21	21.85	25.04	34.30	31.24	15.90	6.823	3.512
MAX	26.6	26.3	25.5	28.0	40.9	91.2	140	65.1	22.1	9.46
(WY)	1994	1994	1994	1993	1993	1993	1993	1993	1999	1993
MIN	3.09	11.5	17.0	16.9	17.0	12.1	2.38	1.66	0.72	0.18
(WY)	2002	2002	2000	2001	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1993 - 2002

ANNUAL TOTAL	3540.08	2618.87	
ANNUAL MEAN	9.699	7.175	16.92
HIGHEST ANNUAL MEAN			38.7
LOWEST ANNUAL MEAN			7.17
HIGHEST DAILY MEAN	88	Aug 3	189
LOWEST DAILY MEAN	0.14	Jul 8	0.00
ANNUAL SEVEN-DAY MINIMUM	0.26	Jul 19	0.00
ANNUAL RUNOFF (AC-FT)	7020	5190	12260
10 PERCENT EXCEEDS	19	18	30
50 PERCENT EXCEEDS	8.1	2.4	16
90 PERCENT EXCEEDS	0.68	0.00	1.1

e Estimated

09404900 EAST FORK VIRGIN RIVER NEAR SPRINGDALE, UT

LOCATION.--Lat 37°09'51", long 112°57'28", in SE¹/₄SW¹/₄NW¹/₄ sec. 2, T. 42 S., R. 10 W., Washington County, Hydrologic Unit 15010008, Zion National Park, on right bank 0.7 mi upstream from Zion National Park boundary, 1.2 mi upstream from Shunes Creek, 2.7 mi southeast of Springdale, and 3.4 mi south-southeast of Zion National Park headquarters.

DRAINAGE AREA.--343 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,940 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Numerous irrigation diversions upstream of station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,100 ft³/s, Aug 10, 1997, gage height, 11.38 ft, from floodmarks, from rating curve extended above 200 ft³/s on basis of slope-area measurements at gage heights, 6.41 ft and 9.70 ft; minimum daily discharge, 26 ft³/s, Sep 14, 15, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 11	1345	*72	*4.94				

Minimum daily discharge 26 ft³/s, Sep 14, 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	49	52	54	47	51	40	36	35	34	35	e37
2	36	49	54	53	50	49	39	36	35	33	36	e35
3	37	49	54	52	49	49	38	36	36	33	36	34
4	38	50	57	53	49	50	38	36	35	33	35	32
5	39	52	52	50	49	49	37	36	35	33	35	32
6	40	50	51	50	49	49	36	36	36	32	36	32
7	41	50	51	52	50	49	36	35	36	32	36	35
8	44	50	50	55	54	51	37	35	36	32	36	30
9	43	50	50	56	54	48	36	36	36	32	36	28
10	42	51	52	54	55	49	35	36	37	32	35	28
11	42	51	53	50	56	48	36	36	37	32	35	30
12	44	51	50	51	57	48	36	36	36	31	35	28
13	46	52	47	50	58	47	37	36	36	31	35	27
14	45	50	49	49	58	46	37	36	36	30	35	26
15	44	49	52	50	58	46	36	36	36	31	36	26
16	44	50	44	50	58	47	37	36	36	31	36	27
17	44	49	50	47	58	47	37	35	36	31	36	e28
18	45	49	50	47	58	47	36	35	37	31	36	e28
19	44	48	49	45	56	46	36	35	38	31	36	e28
20	45	49	50	48	56	45	37	35	38	31	36	e28
21	45	50	50	49	55	43	37	35	37	30	37	28
22	46	51	50	50	55	43	37	35	37	30	37	28
23	47	50	50	47	55	42	37	35	37	29	37	28
24	47	51	49	45	54	41	36	34	36	29	37	29
25	47	56	47	50	53	39	36	34	35	29	38	29
26	47	52	47	51	52	38	36	35	34	30	38	29
27	49	51	51	52	52	38	36	35	34	31	38	29
28	48	49	52	52	52	42	38	35	34	34	38	e29
29	48	52	55	51	---	44	37	35	34	35	38	e30
30	49	53	55	47	---	43	36	35	33	35	38	e30
31	49	---	55	43	---	41	---	35	---	35	e38	---
TOTAL	1360	1513	1578	1553	1507	1415	1103	1097	1074	983	1126	888
MEAN	43.87	50.43	50.90	50.10	53.82	45.65	36.77	35.39	35.80	31.71	36.32	29.60
MAX	49	56	57	56	58	51	40	36	38	35	38	37
MIN	35	48	44	43	47	38	35	34	33	29	35	26
AC-FT	2700	3000	3130	3080	2990	2810	2190	2180	2130	1950	2230	1760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	48.32	54.75	56.11	64.45	68.23	77.47	70.99	52.04	41.91	39.48	42.64	46.87
MAX	62.3	62.8	62.9	110	110	153	200	109	57.7	44.4	52.0	74.6
(WY)	1998	1994	1997	1993	1993	1993	1993	1993	1993	1998	2001	1997
MIN	38.8	48.5	50.9	50.1	53.8	45.6	36.8	35.4	34.4	31.7	36.3	29.6
(WY)	1992	2001	2002	2002	2002	2002	2002	2002	1996	2002	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1992 - 2002

ANNUAL TOTAL	18576	15197	
ANNUAL MEAN	50.89	41.64	55.19
HIGHEST ANNUAL MEAN			85.1
LOWEST ANNUAL MEAN			41.6
HIGHEST DAILY MEAN	191	58	450
LOWEST DAILY MEAN	31	26	26
ANNUAL SEVEN-DAY MINIMUM	33	27	27
ANNUAL RUNOFF (AC-FT)	36850	30140	39980
10 PERCENT EXCEEDS	66	52	73
50 PERCENT EXCEEDS	50	38	51
90 PERCENT EXCEEDS	36	31	36

e Estimated

09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT

LOCATION.--Lat 37°12'35", long 112°58'40", in NW¹/₄SW¹/₄NW¹/₄ sec. 22, T. 41 S., R. 10 W., Washington County, Hydrologic Unit 15010008, Zion National Park, on right bank 0.2 mi downstream from point of diversion of Springdale Canal, 0.5 mi downstream from Pine Creek, and 1.9 mi northeast of Springdale.

DRAINAGE AREA.--344 mi².

PERIOD OF RECORD.--May 1913 to June 1914, June to November 1923, April to June, August and September 1925 (fragmentary), October 1925 to current year. Published as Zion Creek near Springdale 1913-14 and as Mukuntuweap River near Springdale 1923, 1925-32. Published as combined flow of river and Springdale canal 1923, 1925-88.

GAGE.--Water-stage recorder. Crest-stage gage since May 31, 1995. Elevation of gage is 3,970 ft above NGVD of 1929, from topographic map. May 13, 1913, to June 30, 1914, nonrecording gage at site 3.8 mi downstream at different datum. June 6, 1923 to September 1925, nonrecording gage at site 0.8 mi upstream. October 1, 1925 to December 14, 1949, nonrecording gage 50 ft downstream at datum 0.34 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Some regulation of low flows by Kolob Reservoir (20 mi upstream) and several diversions for irrigation upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft³/s, Dec 6, 1966, gage height, 12.98 ft, from rating curve extended above 2,000 ft³/s on basis of drift measurement at gage height, 6.7 ft, and slope-area measurement at gage height, 10.25 ft; minimum estimated, less than 5.0 ft³/s, Apr 12, 1995, result of landslide 1.0 mi upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	2215	*213	*1.85				

Minimum daily discharge, 22 ft³/s, on many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	41	46	49	60	47	52	36	26	22	24	25
2	31	41	51	47	64	38	50	36	26	23	29	25
3	31	41	50	44	66	e40	51	37	26	23	25	25
4	32	42	51	47	66	44	51	36	26	23	24	25
5	34	41	41	42	47	49	51	37	26	23	23	25
6	36	41	41	46	45	51	50	35	26	22	23	36
7	36	41	46	50	46	52	50	34	25	22	23	83
8	35	42	40	63	46	55	47	34	25	22	23	61
9	36	41	40	75	45	43	44	33	25	22	23	56
10	35	43	47	72	43	53	43	33	24	23	22	40
11	35	44	47	68	44	49	42	33	24	27	23	40
12	36	42	39	72	49	50	42	33	25	26	22	39
13	37	44	35	69	46	51	45	31	25	24	22	38
14	36	46	36	66	50	45	43	29	24	23	22	34
15	35	44	40	66	48	41	41	28	25	25	22	34
16	37	43	39	66	49	46	42	28	24	29	22	32
17	37	43	36	60	49	47	41	28	23	28	22	31
18	36	44	42	55	48	46	40	28	24	31	22	30
19	38	43	41	58	46	43	40	29	23	27	22	30
20	38	42	43	60	48	47	40	28	23	27	22	30
21	39	43	45	64	48	49	42	27	24	27	22	30
22	38	46	45	68	48	49	40	28	24	25	22	31
23	36	44	43	e62	50	52	39	29	24	24	22	29
24	37	43	43	57	49	53	38	30	23	24	22	30
25	38	54	41	63	47	49	38	31	23	26	23	29
26	37	36	39	69	45	49	38	29	22	25	22	29
27	37	38	41	69	47	48	46	28	23	25	23	28
28	40	36	46	69	47	49	44	27	23	24	23	32
29	40	47	50	67	---	52	41	26	22	23	23	53
30	39	48	50	e62	---	51	37	27	22	23	24	42
31	40	---	49	e60	---	51	---	27	---	23	24	---
TOTAL	1123	1284	1343	1885	1386	1489	1308	955	725	761	710	1072
MEAN	36.23	42.80	43.32	60.81	49.50	48.03	43.60	30.81	24.17	24.55	22.90	35.73
MAX	40	54	51	75	66	55	52	37	26	31	29	83
MIN	31	36	35	42	43	38	37	26	22	22	22	25
AC-FT	2230	2550	2660	3740	2750	2950	2590	1890	1440	1510	1410	2130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

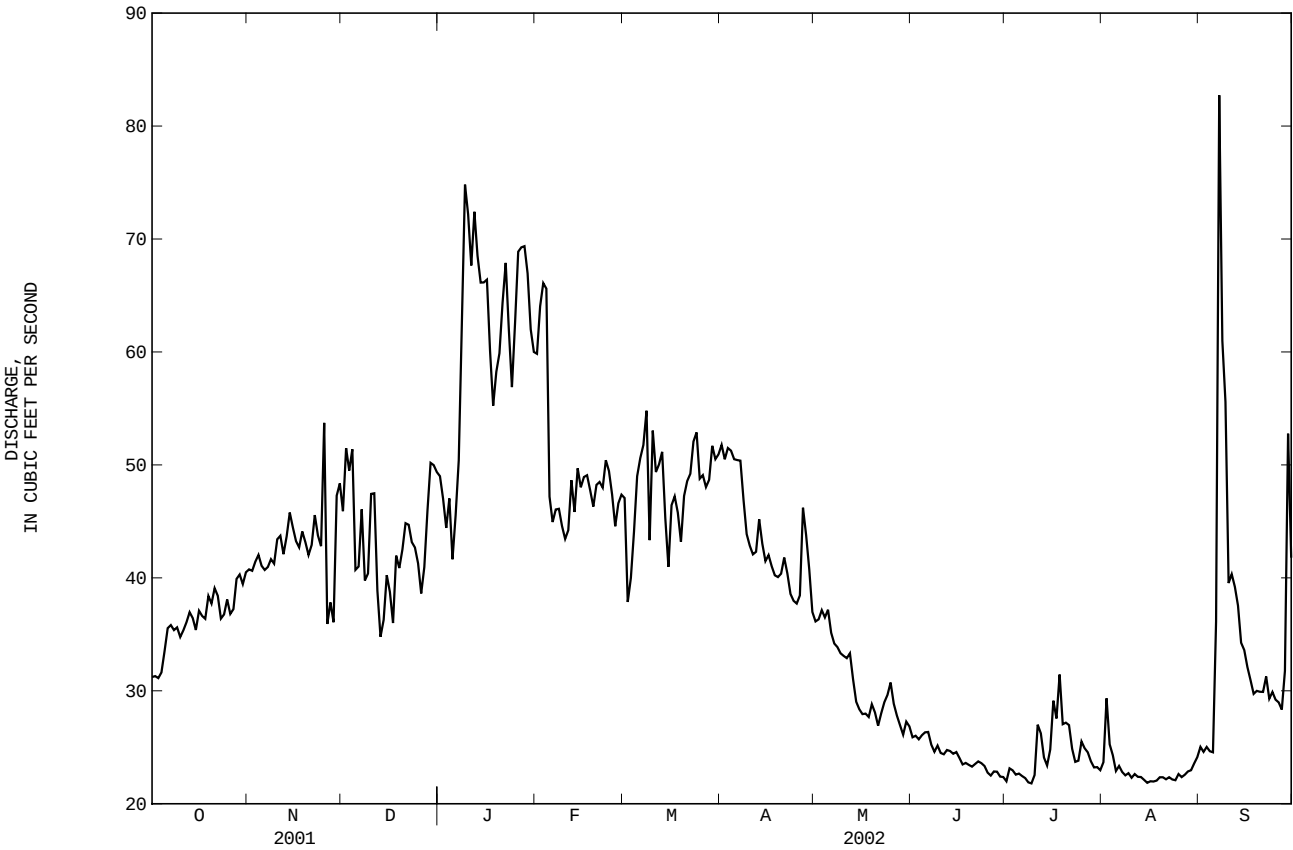
	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	49.47	53.05	52.60	60.11	69.69	113.4	196.2	250.1	102.3	53.63	46.79	49.15		
MAX	79.8	75.5	73.5	96.3	110	271	644	813	404	113	71.1	115		
(WY)	1999	1999	1994	1997	1995	1995	1993	1993	1995	1995	1995	1998		
MIN	33.4	35.9	36.6	39.0	47.8	48.0	43.6	30.8	24.2	24.5	22.9	24.8		
(WY)	1992	1990	1990	1991	1990	2002	2002	2002	2002	2002	2002	1989		

VIRGIN RIVER BASIN

09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1989 - 2002	
ANNUAL TOTAL	27458		14041		91.44	
ANNUAL MEAN	75.23		38.47		207	
HIGHEST ANNUAL MEAN					38.5	
LOWEST ANNUAL MEAN					1140	
HIGHEST DAILY MEAN	372	May 1	83	Sep 7	22	May 4 1993
LOWEST DAILY MEAN	30	Sep 7	22	Jun 26	22	Aug 5 1994
ANNUAL SEVEN-DAY MINIMUM	31	Sep 25	22	Aug 12	22	Aug 12 2002
ANNUAL RUNOFF (AC-FT)	54460		27850		66250	
10 PERCENT EXCEEDS	172		52		161	
50 PERCENT EXCEEDS	46		39		54	
90 PERCENT EXCEEDS	34		23		33	

e Estimated



09406000 VIRGIN RIVER AT VIRGIN, UT

LOCATION.--Lat 37°12'15", long 113°10'48", in SW¹/₄NW¹/₄SW¹/₄ sec. 23, T. 41 S., R. 12 W., Washington County, Hydrologic Unit 15010008, on right bank 0.25 mi downstream from North Creek and 0.5 mi east of Virgin.

DRAINAGE AREA.--956 mi².

PERIOD OF RECORD.--April 1909 to September 1971, October 1978 to current year. Fragmentary prior to 1926, monthly discharge published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1942-43(M), 1947-48(M). WSP 1633: 1921(M), 1950-51. WDR-UT-89-1: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage since February 11, 1992. Elevation of gage is 3,500 ft above NGVD of 1929, from topographic map. October 1, 1978 to July 5, 1985, 2 mi downstream on left bank, December 19, 1949, to September 1971, across from previous site on right bank at different datum. Prior to December 19, 1949, several nonrecording gages within 3 mi of present site at various datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 2,800 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft³/s, Dec 6, 1966, gage height, 18.00 ft, site and datum then in use, from rating curve extended above 5,000 ft³/s on basis of one slope-area measurement and one float measurement; minimum observed, 22 ft³/s, Jul 10, 1920 and Jun 11, 1921.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 25	Unknown	*3,440	*13.25	Sep 6	2120	2,510	12.27

Minimum daily discharge, 42 ft³/s, Jul 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	85	112	124	121	104	96	77	54	47	e52	52
2	62	88	117	124	126	98	92	73	58	47	54	52
3	62	87	117	124	132	95	91	77	54	49	61	53
4	61	91	125	123	132	101	89	74	54	51	54	51
5	63	92	114	120	118	105	90	76	54	47	51	53
6	69	89	106	118	110	106	91	74	51	43	51	257
7	75	88	109	123	110	106	93	71	52	42	49	199
8	78	92	110	125	110	118	89	69	50	44	48	174
9	74	93	108	145	110	107	86	68	50	44	46	175
10	71	92	113	144	106	105	85	68	54	45	46	73
11	73	95	119	138	106	106	83	64	52	50	46	90
12	77	95	113	140	108	103	84	66	52	53	47	83
13	76	98	103	138	107	103	88	67	51	49	48	74
14	77	100	105	136	107	103	86	63	52	48	50	67
15	76	97	114	129	113	96	83	61	52	50	50	65
16	75	97	109	136	109	99	85	60	53	56	50	62
17	76	97	102	126	111	102	85	62	52	56	50	60
18	74	100	113	118	113	99	81	62	49	60	48	56
19	73	97	111	120	109	94	84	61	50	55	51	57
20	75	97	113	121	107	93	84	57	50	51	50	59
21	78	101	118	127	107	94	89	60	46	50	49	58
22	78	104	117	133	106	97	86	62	48	50	51	59
23	77	105	115	132	105	99	82	62	47	47	49	57
24	76	106	115	118	104	102	79	62	49	e54	47	56
25	79	126	113	124	103	99	80	64	49	e225	50	56
26	80	110	109	136	101	94	81	64	49	e60	50	56
27	79	105	114	138	105	93	93	61	48	e52	49	57
28	82	103	120	136	103	91	92	59	49	e50	49	61
29	83	110	127	136	---	97	84	57	49	e50	50	106
30	84	115	130	131	---	94	78	55	47	e50	52	90
31	83	---	126	120	---	94	---	54	---	e50	52	---
TOTAL	2309	2955	3537	4003	3099	3097	2589	2010	1525	1725	1550	2468
MEAN	74.48	98.50	114.1	129.1	110.7	99.90	86.30	64.84	50.83	55.65	50.00	82.27
MAX	84	126	130	145	132	118	96	77	58	225	61	257
MIN	61	85	102	118	101	91	78	54	46	42	46	51
AC-FT	4580	5860	7020	7940	6150	6140	5140	3990	3020	3420	3070	4900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2002, BY WATER YEAR (WY)

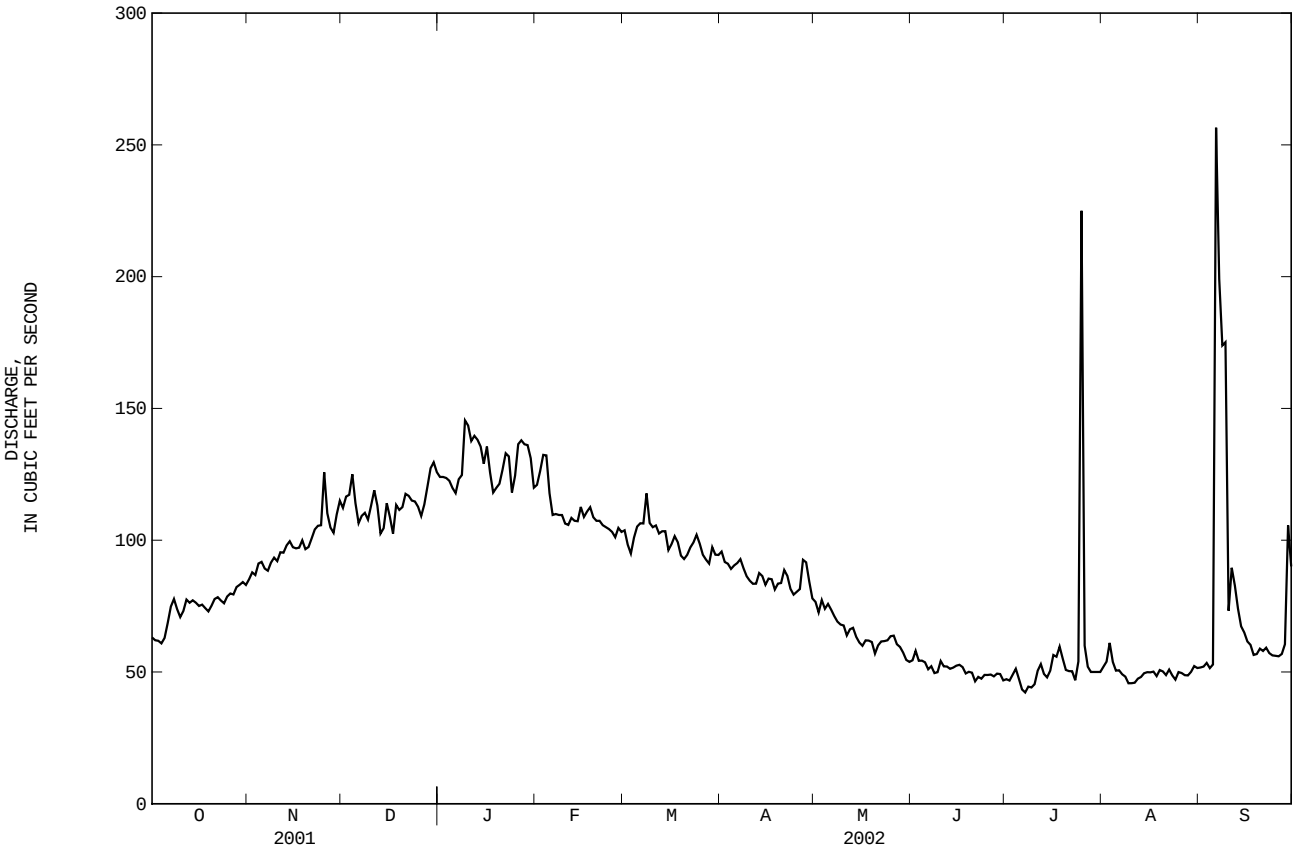
	MEAN	129.1	145.2	155.5	161.7	188.6	248.9	385.2	425.1	156.0	119.3	134.2	136.4
MAX	528	606	648	791	833	822	981	1582	762	484	441	504	
(WY)	1923	1923	1967	1911	1980	1910	1993	1979	1983	1911	1916	1911	
MIN	61.3	82.9	77.4	70.9	90.9	91.7	86.4	64.9	50.8	30.4	43.5	53.1	
(WY)	1929	1926	1932	1932	1926	1924	2002	2002	2002	1928	1928	1956	

VIRGIN RIVER BASIN

09406000 VIRGIN RIVER AT VIRGIN, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1910 - 2002	
ANNUAL TOTAL	47984		30867		198.8	
ANNUAL MEAN	131.5		84.57		465	
HIGHEST ANNUAL MEAN					84.6	
LOWEST ANNUAL MEAN					10600	
HIGHEST DAILY MEAN	506	May 2	257	Sep 6	22	Sep 30 1911
LOWEST DAILY MEAN	55	Sep 4	42	Jul 7	23	Jul 10 1920
ANNUAL SEVEN-DAY MINIMUM	56	Sep 4	45	Jul 5	23	Jun 8 1921
ANNUAL RUNOFF (AC-FT)	95180		61220		144000	
10 PERCENT EXCEEDS	252		123		377	
50 PERCENT EXCEEDS	110		83		128	
90 PERCENT EXCEEDS	62		50		70	

e Estimated



LOCATION.--Lat 37°16'03", long 113°22'12", in SW¹/₄SE¹/₄NE¹/₄ sec. 36, T. 40 S., R. 14 W., Washington County, Hydrologic Unit 15010008, on left bank 1,150 ft upstream from Leeds Ditch diversion, 2.1 mi north of Leeds, and 4.4 mi upstream from mouth.

PERIOD OF RECORD.--October 1915 to June 1920 (fragmentary) in reports of Geological Survey; October 1964 to current year.

GAGE.--Water-stage recorder. Crest-stage gage since May 30, 1989. Elevation of gage is 4,000 ft above NGVD of 1929, from topographic map. Prior to June 1920, at various sites and datums about 600 ft downstream; October 28, 1964, to August 20, 1967, water-stage recorder at site 1,000 ft downstream at different datum.

REMARKS.--Records good except estimated daily discharges, which are poor. Diversion of spring area for domestic use about 4 mi upstream of gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft³/s, Aug 3, 1988, gage height, 9.41 ft, from rating curve extended above 33 ft³/s on basis of slope-area measurement; minimum daily discharge, 0.79 ft³/s, Aug 22, 23, 25, and 26, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug 12, 1964 reached a stage of 6.00 ft, former site and datum, discharge 2,980 ft³/s from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 25	0720	*5.1	*1.63				

Minimum daily discharge, 0.79 ft³/s, Aug 22, 23, 25, 26.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.8	2.9	3.0	2.9	e2.5	2.3	2.2	2.2	e1.6	1.1	0.87	0.82
2	e2.8	2.9	3.0	2.9	e2.6	e2.3	2.2	2.2	e1.6	1.2	0.93	0.82
3	e2.8	2.8	3.0	2.9	e2.6	e2.3	2.2	2.2	e1.6	1.1	0.95	0.85
4	e2.8	2.8	3.3	2.9	2.6	e2.5	2.3	2.1	e1.5	1.1	0.91	0.82
5	e2.8	2.9	3.0	2.9	2.6	2.5	2.3	2.1	e1.5	1.1	0.89	0.90
6	e2.8	2.8	3.0	2.9	2.6	2.5	2.3	2.1	1.5	1.1	0.89	1.2
7	e3.2	2.9	3.0	2.9	2.6	2.5	2.3	2.0	1.4	1.1	0.89	1.3
8	e3.1	2.9	3.0	2.9	2.6	2.5	2.3	2.1	1.4	1.0	0.91	1.2
9	e3.0	2.9	3.0	2.9	2.5	2.5	2.3	2.1	1.4	1.0	0.87	1.1
10	2.8	2.9	3.0	2.9	2.5	2.5	2.3	2.1	1.5	1.0	0.87	1.0
11	2.9	2.9	3.1	2.9	2.5	2.5	2.2	2.2	1.5	1.0	0.84	1.2
12	2.8	2.9	3.0	2.9	2.5	2.5	2.2	2.1	1.5	1.0	0.83	1.1
13	2.8	3.2	e3.0	2.9	2.4	2.4	2.2	2.1	1.4	0.95	0.83	1.1
14	2.8	3.0	e3.0	2.9	2.5	2.3	2.2	2.0	1.4	0.88	0.82	0.99
15	2.8	3.0	3.3	2.9	2.3	2.3	2.2	2.0	1.3	0.90	0.81	0.96
16	2.8	2.9	e3.0	2.9	2.3	2.4	2.2	1.9	1.3	1.0	0.81	0.96
17	2.7	2.9	e2.9	e2.9	2.3	2.5	2.2	1.9	1.4	1.1	0.81	0.98
18	2.7	2.9	2.9	e2.9	2.6	2.4	2.3	1.8	e1.4	1.1	0.80	0.93
19	2.7	2.9	2.9	e2.9	2.5	2.3	2.3	1.8	e1.4	0.97	0.81	0.95
20	2.7	2.9	2.9	e2.9	2.5	2.3	2.3	1.8	e1.4	0.94	0.84	0.94
21	2.8	2.9	2.9	e2.9	2.5	2.3	2.3	1.8	1.4	0.91	0.84	0.93
22	2.8	2.9	2.9	e2.9	2.4	2.3	2.4	1.9	1.3	0.88	0.79	0.92
23	2.7	2.9	2.9	e2.9	2.3	2.3	2.4	1.9	1.3	0.88	0.79	0.91
24	2.8	3.0	2.9	e2.9	2.3	2.4	2.4	1.9	1.2	0.94	0.80	0.90
25	2.8	3.3	e2.9	e2.9	2.3	2.3	2.3	1.9	1.2	0.95	0.79	0.91
26	2.8	3.0	e2.9	e2.9	2.3	2.3	2.3	1.8	1.2	0.92	0.79	0.91
27	2.8	3.0	3.0	e2.9	2.3	2.3	2.5	1.8	1.2	0.90	0.80	0.91
28	2.8	3.2	3.0	e2.9	2.3	2.3	2.4	1.7	1.1	0.88	0.80	0.96
29	2.8	3.1	3.0	e2.8	---	2.3	2.3	e1.7	1.1	0.87	0.81	1.2
30	2.9	3.1	2.9	e2.6	---	2.2	2.2	e1.7	1.1	0.85	0.83	1.0
31	2.9	---	3.0	e2.5	---	2.2	---	e1.7	---	0.85	0.83	---
TOTAL	87.5	88.6	92.6	89.1	68.8	73.5	68.5	60.6	41.1	30.47	26.05	29.67
MEAN	2.823	2.953	2.987	2.874	2.457	2.371	2.283	1.955	1.370	0.983	0.840	0.989
MAX	3.2	3.3	3.3	2.9	2.6	2.5	2.5	2.2	1.6	1.2	0.95	1.3
MIN	2.7	2.8	2.9	2.5	2.3	2.2	2.2	1.7	1.1	0.85	0.79	0.82
AC-FT	174	176	184	177	136	146	136	120	82	60	52	59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

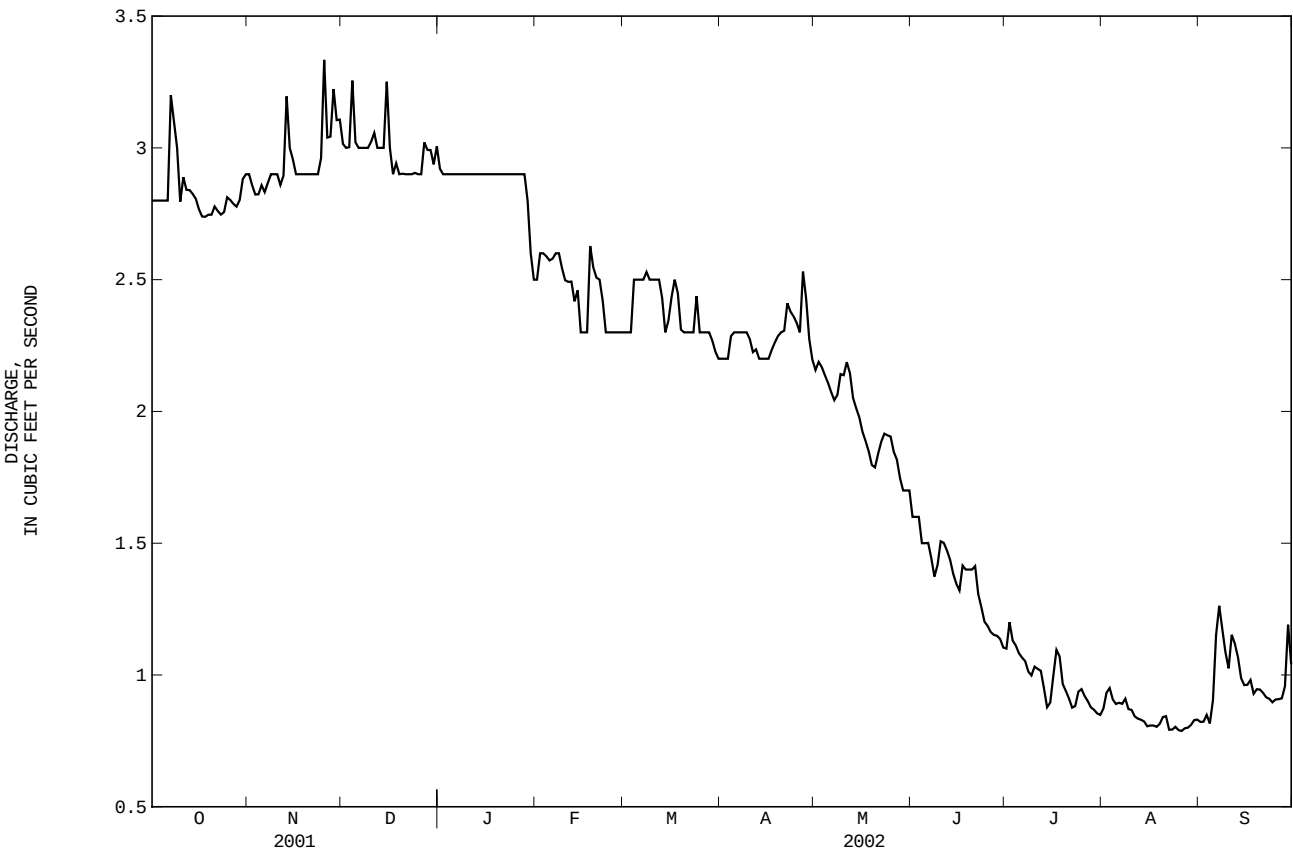
MEAN	4.002	4.118	4.591	4.566	6.435	9.160	9.579	10.59	13.00	10.62	6.949	4.603
MAX	9.16	10.8	26.6	12.2	52.0	36.3	33.1	28.7	38.1	34.3	21.6	12.5
(WY)	1984	1988	1967	1993	1980	1983	1969	1969	1973	1983	1988	
MIN	2.05	1.85	2.01	2.18	2.32	2.37	2.00	1.95	1.37	0.98	0.84	0.99
(WY)	1971	1978	1978	1991	1991	2002	1977	2002	2002	2002	2002	2002

VIRGIN RIVER BASIN

09408000 LEEDS CREEK NEAR LEEDS, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1965 - 2002	
ANNUAL TOTAL	2257.8		756.49		7.354	
ANNUAL MEAN	6.186		2.073		18.1	
HIGHEST ANNUAL MEAN					2.07	
LOWEST ANNUAL MEAN					412	
HIGHEST DAILY MEAN	14	May 31	3.3	Nov 25	Dec 6	1966
LOWEST DAILY MEAN	2.7	Oct 17	0.79	Aug 22	0.79	Aug 22 2002
ANNUAL SEVEN-DAY MINIMUM	2.7	Oct 17	0.79	Aug 22	0.79	Aug 22 2002
ANNUAL RUNOFF (AC-FT)	4480		1500		5330	
10 PERCENT EXCEEDS	11		2.9		16	
50 PERCENT EXCEEDS	4.7		2.3		4.6	
90 PERCENT EXCEEDS	2.9		0.89		2.4	

e Estimated



LOCATION.--Lat 37°10'20", long 113°23'07", in NE¹/₄SE¹/₄SE¹/₄ sec. 35, T. 41 S., R. 14 W., Washington County, Hydrologic Unit 15010008, Bureau of Land Management, on right bank 0.6 mi downstream from Quail Creek Reservoir Dam, 1.2 mi upstream from State Highway 9. and 5.2 mi west of Hurricane.

REVISED RECORDS.--WDR UT-78-1 and WDR UT-94-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,800 ft above NGVD of 1929, from topographic map. March 20, 1967 to February 14, 1989 at site 1.2 mi downstream at different datum and October 1, 1990 to March 30, 1993 at site 1.3 mi downstream at different datum.

REMARKS.--Records good except estimated daily discharges, which are poor. Since 1985, flow diverted about 14 mi upstream into a pipeline that feeds Quail Creek Reservoir, an offstream site 0.6 mi upstream of gage. Flow subject to releases from Quail Creek Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 66,000 ft³/s, Jan 1, 1989, from slope-area measurement of Quail Creek Reservoir dike failure; minimum daily discharge, 22 ft³/s, Aug 29, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1909, 17.34 ft, Dec 6, 1966, from floodmarks; discharge, 20,100 ft³/s. site and datum established in Mar 1967, from slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 6	2145	*4,800	*12.25	No other peak greater than base discharge.			

Minimum daily discharge, 22 ft³/s, Aug 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	71	e100	75	64	66	59	71	35	55	50	32
2	69	79	e110	117	63	69	57	66	52	51	54	31
3	72	71	e90	85	67	66	61	68	53	46	62	29
4	72	69	e90	77	62	71	59	62	45	52	62	31
5	78	86	82	71	63	77	57	57	52	65	57	30
6	79	73	82	61	62	86	60	60	45	54	51	431
7	95	75	81	65	63	61	63	63	36	48	51	437
8	85	69	85	65	61	60	64	62	43	48	54	190
9	71	71	85	75	59	63	58	63	41	53	55	311
10	60	75	88	66	59	59	60	54	52	52	51	99
11	70	74	93	61	63	64	57	57	47	58	50	97
12	74	80	87	61	69	59	57	61	42	65	51	131
13	84	90	84	61	79	57	49	60	41	63	55	85
14	82	99	89	61	66	60	53	55	49	56	56	71
15	78	88	97	60	72	60	92	51	42	56	55	62
16	75	87	92	67	67	60	113	51	36	54	43	57
17	75	92	90	61	67	62	111	49	45	63	31	52
18	71	93	95	59	73	60	108	53	43	66	25	55
19	98	98	100	61	67	59	109	54	40	72	28	53
20	106	88	104	67	69	59	43	52	48	71	27	58
21	115	105	108	69	68	59	57	55	44	60	28	56
22	115	94	106	78	71	63	68	56	48	58	27	54
23	103	101	109	83	71	61	71	53	50	65	28	52
24	109	101	140	e70	64	72	62	46	50	60	30	46
25	108	130	156	e75	67	74	64	58	50	282	29	48
26	114	121	154	73	64	60	68	57	49	71	23	51
27	101	87	159	77	66	70	74	73	46	57	28	49
28	111	81	165	79	68	59	93	51	44	49	25	44
29	103	83	174	e85	---	63	82	43	49	50	22	96
30	63	e100	168	e82	---	63	74	50	60	50	32	121
31	71	---	89	e70	---	62	---	39	---	51	31	---
TOTAL	2683	2631	3352	2217	1854	1984	2103	1750	1377	2001	1271	2959
MEAN	86.55	87.70	108.1	71.52	66.21	64.00	70.10	56.45	45.90	64.55	41.00	98.63
MAX	115	130	174	117	79	86	113	73	60	282	62	437
MIN	60	69	81	59	59	57	43	39	35	46	22	29
AC-FT	5320	5220	6650	4400	3680	3940	4170	3470	2730	3970	2520	5870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968-88, 1991-2002, BY WATER YEAR (WY)

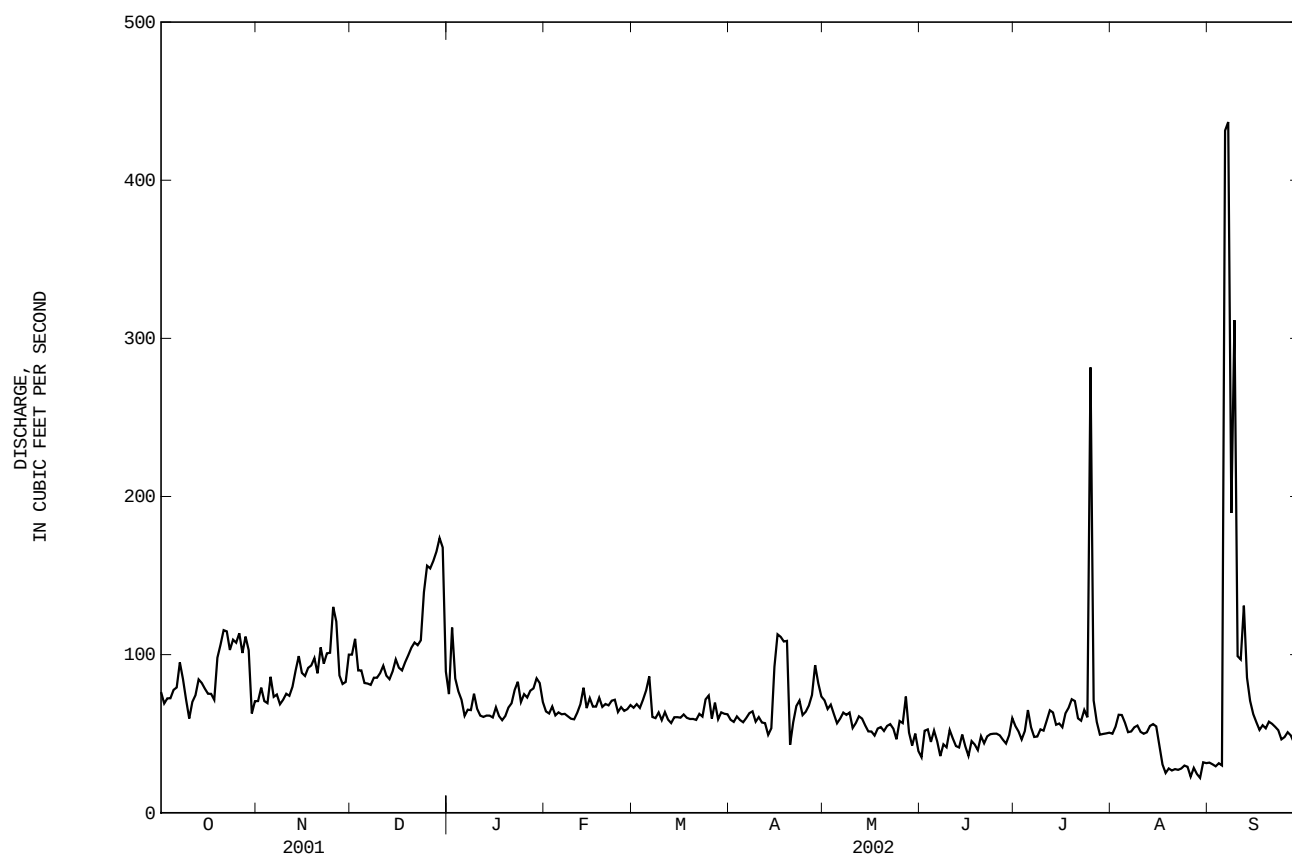
MEAN	122.3	142.3	162.8	199.5	239.8	321.8	396.9	472.8	188.4	113.4	121.5	130.2
MAX	304	280	440	662	1200	1178	1230	1657	869	248	316	330
(WY)	1987	1988	1972	1989	1980	1978	1993	1983	1983	1983	1983	1998
MIN	54.2	56.4	51.4	58.9	59.8	64.0	62.5	56.5	45.9	46.4	41.0	56.8
(WY)	1991	1991	1987	1991	1991	2002	1977	2002	2002	1972	2002	1977

VIRGIN RIVER BASIN

09408150 VIRGIN RIVER NEAR HURRICANE, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER		WATER YEARS 1968-88, 1991-2002	
ANNUAL TOTAL	46125		26182		217.2	
ANNUAL MEAN	126.4		71.73		515	
HIGHEST ANNUAL MEAN					71.7	
LOWEST ANNUAL MEAN					13200	
HIGHEST DAILY MEAN	531	May 2	437	Sep 7	22	Jan 1 1989
LOWEST DAILY MEAN	37	Jul 22	22	Aug 29	26	Aug 29 2002
ANNUAL SEVEN-DAY MINIMUM	51	Jul 18	26	Aug 23	26	Aug 23 2002
ANNUAL RUNOFF (AC-FT)	91490		51930		157300	
10 PERCENT EXCEEDS	260		102		406	
50 PERCENT EXCEEDS	94		63		132	
90 PERCENT EXCEEDS	63		44		64	

e Estimated



09408175 ST. GEORGE-WASHINGTON CANAL NEAR WASHINGTON, UT

LOCATION.--Lat 37°06'54", long 113°26'24"(corrected), in NE¹/₄SE¹/₄ sec. 20, T. 42 S., R. 14 W., Washington County, Hydrologic Unit 15010008, on right bank immediately upstream from concrete flume, 0.2 mi downstream from diversion, 2.2 mi southeast of Washington.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Parshall flume since November 8, 1991. Elevation of gage is 2,680 ft above NGVD of 1929, from topographic map. Prior to November 8, 1991 at site 150 ft downstream at same datum. Water-quality monitoring equipment located 5 ft downstream.

REMARKS.-- Records good except for estimated daily discharges, which are poor. Completely regulated canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 116 ft³/s, Oct 22, 1989; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 101 ft³/s, Jul 25, gage height, 8.35 ft; no flow on many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e80	50	61	61	0.00	28	67	80	52	66	61	45
2	72	40	61	62	0.00	45	66	79	58	64	64	45
3	72	45	61	61	0.00	45	67	76	67	60	67	44
4	71	47	61	61	0.00	44	69	77	60	61	70	45
5	68	47	62	61	0.00	42	68	70	62	71	68	43
6	69	47	61	61	0.00	55	70	72	61	66	62	44
7	69	47	61	61	0.00	71	74	73	52	60	62	36
8	69	46	61	61	23	67	74	75	52	59	64	70
9	52	46	62	62	64	69	71	74	55	61	66	61
10	32	46	61	61	65	68	71	70	57	62	63	58
11	66	19	62	61	65	71	70	60	58	63	61	67
12	68	0.00	62	47	65	71	69	65	55	70	61	69
13	69	28	61	e0.10	64	67	65	71	54	69	64	68
14	69	45	61	e0.00	65	70	66	69	61	64	66	67
15	69	45	62	0.00	e68	70	79	62	56	64	67	67
16	69	46	62	0.00	e65	70	89	66	51	61	59	64
17	65	46	62	0.00	e65	72	89	60	55	68	46	63
18	70	46	62	0.00	e68	72	89	65	58	70	41	e61
19	67	46	62	0.00	e65	70	89	66	52	71	43	e60
20	67	53	62	0.00	e67	70	62	61	58	72	42	e60
21	67	58	62	0.00	e66	70	60	67	57	67	41	e60
22	46	58	62	0.00	e68	70	77	59	60	64	41	e59
23	77	58	62	0.00	70	64	81	66	62	69	41	e59
24	75	58	64	0.00	66	54	75	59	61	67	43	e59
25	75	61	65	0.00	67	54	72	63	62	81	44	e58
26	80	62	65	0.00	66	54	81	64	61	72	39	e58
27	81	61	65	0.00	66	65	75	76	60	69	41	e58
28	82	61	66	0.00	68	69	79	69	56	63	40	e57
29	84	61	66	0.00	---	70	85	58	60	61	36	e60
30	63	62	66	0.00	---	71	82	62	68	62	43	e60
31	54	---	62	0.02	---	69	---	56	---	62	45	---
TOTAL	2117	1435.00	1935	720.12	1346.00	1947	2231	2090	1741	2039	1651	1725
MEAN	68.29	47.83	62.42	23.23	48.07	62.81	74.37	67.42	58.03	65.77	53.26	57.50
MAX	84	62	66	62	70	72	89	80	68	81	70	70
MIN	32	0.00	61	0.00	0.00	28	60	56	51	59	36	36
AC-FT	4200	2850	3840	1430	2670	3860	4430	4150	3450	4040	3270	3420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

	MEAN	63.84	45.97	42.20	27.68	29.27	48.70	78.18	79.28	76.81	76.53	74.52	74.44
MAX	76.6	66.0	62.5	54.8	48.2	79.6	94.9	93.8	97.0	99.5	95.0	93.4	
(WY)	1996	2000	2002	1999	1994	1997	1989	1997	1993	1995	1993	1988	
MIN	47.7	27.3	30.8	1.74	0.000	0.000	58.9	67.4	58.1	65.8	53.3	56.1	
(WY)	1988	1999	1996	1989	1989	1989	1988	2002	2002	2002	2002	1997	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1988 - 2002

ANNUAL TOTAL	23405.70	20977.12	
ANNUAL MEAN	64.13	57.47	59.91
HIGHEST ANNUAL MEAN			70.2
LOWEST ANNUAL MEAN			52.8
HIGHEST DAILY MEAN	109	89	116
LOWEST DAILY MEAN	0.00	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00	0.00
ANNUAL RUNOFF (AC-FT)	46430	41610	43410
10 PERCENT EXCEEDS	90	72	92
50 PERCENT EXCEEDS	71	62	66
90 PERCENT EXCEEDS	0.00	40	16

e Estimated

09408175 ST. GEORGE-WASHINGTON CANAL NEAR WASHINGTON, UT--Continued

WATER-QUALITY RECORDS

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

SPECIFIC CONDUCTANCE: December 1987 to current year.

WATER TEMPERATURE: December 1987 to current year.

REMARKS.--Records for specific conductance are good except for July 14 to August 23, which are fair; records for temperature are excellent except for November 6 to December 5, which are good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 5,330 microsiemens, Jul 19, 1990; minimum recorded, 450 microsiemens, May 21, 1998.

WATER TEMPERATURE: Maximum, 34.9°C, Jul 3, 2001; minimum, 0.0°C, Dec 21, 1990.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 5,110 microsiemens, Aug 27; minimum, 1,010 microsiemens, Jul 25.

WATER TEMPERATURE: Maximum, 31.1°C, Jul 12; minimum, 1.9°C, Dec 16.

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	2630	2210	2400	2990	2840	2920	2950	2160	2470	2730	2260	2560
2	3230	2160	2540	2970	2630	2770	2510	1810	2310	3030	1680	2550
3	2610	2410	2520	2890	2660	2800	2420	2150	2340	2670	1760	2140
4	2550	2140	2400	2960	2660	2840	2480	2360	2410	2890	2500	2580
5	3140	2160	2580	3070	2440	2660	2430	2280	2350	2700	2560	2630
6	2520	2330	2410	2870	2440	2730	2530	2430	2500	2750	2590	2700
7	2660	2060	2420	2870	2750	2830	2560	2240	2410	3140	2660	2820
8	2360	2060	2250	2970	2780	2880	2600	2350	2430	2870	2620	2720
9	2520	2480	2480	2970	2780	2880	2440	2370	2400	3240	2300	2690
10	3000	---	---	2810	2680	2750	2460	2380	2420	2690	2300	2570
11	2960	2570	2730	---	---	---	2450	2250	2340	2740	2680	2710
12	2740	2580	2630	---	---	---	2410	2210	2320	2950	2700	2830
13	2600	2310	2430	---	---	---	2460	2350	2410	---	---	---
14	2580	2340	2460	2470	2320	2410	2460	2400	2430	---	---	---
15	2480	2330	2400	2550	2380	2450	2430	2280	2340	---	---	---
16	2610	2430	2530	2680	2540	2610	2400	2270	2330	---	---	---
17	2610	2420	2530	2670	2440	2510	2410	2280	2360	---	---	---
18	2820	2430	2600	2570	2480	2520	2500	2340	2380	---	---	---
19	2680	2480	2590	2500	2370	2450	2360	2180	2270	---	---	---
20	2550	2310	2430	2590	2360	2460	2290	2180	2230	---	---	---
21	2540	2230	2360	2580	2350	2470	2250	2170	2220	---	---	---
22	---	2230	---	2520	2340	2440	2220	2130	2180	---	---	---
23	2600	2270	2450	2590	2410	2510	2210	2180	2200	---	---	---
24	2500	2300	2410	2510	2340	2440	2270	1520	2040	---	---	---
25	2460	2300	2400	2760	2100	2410	1800	1640	1760	---	---	---
26	2400	2220	2330	2360	2060	2210	1830	1760	1790	---	---	---
27	2610	2220	2430	2630	2360	2470	1900	1770	1820	---	---	---
28	2430	2300	2370	2630	2310	2450	1970	1780	1840	---	---	---
29	2420	2300	2350	2620	2340	2460	1910	1750	1820	---	---	---
30	2890	2380	2640	2650	2160	2310	1870	1670	1800	---	---	---
31	4420	2550	2940	---	---	---	2980	1740	2240	---	---	---
MONTH	---	---	---	---	---	---	2980	1520	2230	---	---	---

09408175 ST. GEORGE-WASHINGTON CANAL NEAR WASHINGTON, UT--Continued

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	---	---	---	---	2630	---	2910	2760	2850	2830	2530	2700
2	---	---	---	3020	2470	2660	2930	2850	2890	2780	2540	2650
3	---	---	---	2780	2590	2710	2950	2830	2890	2980	2630	2750
4	---	---	---	2840	2680	2760	3130	2640	2830	2790	2650	2700
5	---	---	---	3020	2440	2690	2970	2670	2900	3040	2710	2900
6	---	---	---	2980	---	---	3000	2880	2930	3070	2730	2860
7	---	---	---	2800	2200	2540	3050	2770	2860	3060	2750	2880
8	---	---	---	2850	2690	2780	3020	2680	2840	2970	2730	2820
9	2780	2640	2730	2890	2450	2640	2930	2550	2810	2880	2710	2800
10	2780	2570	2680	2800	2610	2730	2900	2810	2850	3010	2780	2870
11	2790	2650	2710	2940	2570	2730	2930	2830	2880	3740	2710	3200
12	3060	2590	2780	2750	2570	2670	2920	2850	2890	3080	2570	2830
13	3370	2290	2580	2880	2690	2800	3080	2880	2930	3020	2810	2930
14	2820	2460	2650	2830	2700	2770	3180	2910	3040	3170	2800	2980
15	3070	2470	2770	2780	2620	2690	3490	2020	2810	3560	2990	3200
16	2720	2420	2580	2790	2670	2730	2230	2050	2160	3560	2940	3100
17	2830	2640	2760	2980	2620	2730	2150	2050	2100	3420	2900	3270
18	2770	2570	2720	2820	2320	2670	2130	2070	2100	3330	3090	3200
19	2720	2420	2570	2760	2660	2710	2130	2070	2110	3450	2860	3060
20	2780	2670	2740	2790	2670	2740	3960	2040	2270	3590	2890	3210
21	2780	2650	2710	2790	2670	2740	4520	2710	2970	3380	2980	3170
22	2750	2640	2710	2990	2700	2770	2900	2530	2720	3120	2980	3040
23	2930	2470	2700	3310	2590	2800	2680	2450	2550	3240	3020	3110
24	2860	2660	2790	4550	2440	2790	2930	2540	2720	3520	3030	3270
25	2830	2680	2760	2690	2420	2540	3970	2440	2880	3440	2890	3150
26	2800	2640	2740	2900	2440	2700	2740	2440	2640	3320	2890	3110
27	3020	2590	2830	2940	2560	2790	2930	2490	2760	3360	2440	2830
28	3010	2530	2720	2900	2520	2730	2540	2290	2370	3040	2540	2880
29	---	---	---	3130	2670	2890	2480	2300	2410	3450	2740	3210
30	---	---	---	2880	2590	2740	2660	2440	2540	3330	2900	3080
31	---	---	---	2870	2700	2790	---	---	---	3430	3070	3270
MONTH	---	---	---	---	---	---	4520	2020	2680	3740	2440	3000
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	3490	2990	3270	3160	2550	2880	3580	2700	3090	3920	3570	3760
2	3940	2990	3450	3130	2700	2940	3750	2710	3110	3990	3560	3780
3	3320	2780	2970	3300	2570	2970	3360	2750	3150	4020	3680	3860
4	3390	2730	3080	3320	2410	3000	3520	2630	2930	3950	3580	3810
5	3480	2750	3110	3580	2360	3030	3280	2820	3030	---	---	---
6	3390	2890	3210	2980	2530	2770	3310	2680	3010	3880	---	---
7	3490	3120	3310	3090	2590	2910	3330	3080	3210	---	---	---
8	4450	3110	3600	3240	2940	3090	3330	3180	3250	2760	2170	2360
9	3670	2880	3310	3230	2860	3040	3320	3070	3170	---	---	---
10	4000	2920	3340	3220	2720	2990	3340	2930	3120	---	---	---
11	3260	2810	3070	3430	2950	3060	3390	3040	3220	---	---	---
12	3480	2770	3200	3570	2720	2970	3420	3240	3320	---	---	---
13	3530	2930	3300	3040	2590	2820	3530	3190	3330	---	---	---
14	3840	2980	3310	2880	2640	2750	3290	3060	3210	---	---	---
15	3450	2950	3200	3590	2630	3010	3280	2860	3200	---	---	---
16	3580	3200	3410	3160	2490	2930	3660	2710	3180	---	---	---
17	3980	3050	3450	3480	2610	3060	4480	3520	4020	---	---	---
18	3270	2940	3170	3280	2640	2890	4420	3430	3890	---	---	---
19	3710	2640	3140	3320	2520	2800	4470	3690	4060	---	---	---
20	4090	2850	3370	3040	2590	2750	4100	3690	3900	---	---	---
21	3390	2860	3130	3050	2620	2760	4640	3680	4020	---	---	---
22	3260	3040	3140	3130	2760	2950	4210	3860	4000	---	---	---
23	3160	2940	3090	3430	2710	2960	4230	3720	3990	---	---	---
24	3350	2740	3050	2980	2750	2860	4020	3850	3950	---	---	---
25	3180	2960	3040	3440	1010	1650	4020	3690	3850	---	---	---
26	3240	2930	3060	4170	1800	2300	4120	3550	3850	---	---	---
27	3210	2910	3080	2980	1940	2670	5110	3780	4310	---	---	---
28	3610	2530	3090	3000	2670	2820	4220	3750	3970	---	---	---
29	3330	3020	3160	3250	2930	3090	4640	3610	4140	---	---	---
30	3760	2500	3080	3220	2900	3070	4680	3560	4260	---	---	---
31	---	---	---	3440	2710	3100	3960	3590	3800	---	---	---
MONTH	4450	2500	3210	4170	1010	2870	5110	2630	3570	---	---	---

VIRGIN RIVER BASIN

09408175 ST. GEORGE-WASHINGTON CANAL NEAR WASHINGTON, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	23.9	16.4	19.9	17.8	11.8	14.9	10.5	6.0	8.4	11.4	8.2	9.6
2	23.8	16.6	20.0	16.5	11.0	13.9	10.9	9.0	9.9	11.8	8.0	9.4
3	22.6	15.4	18.8	17.0	10.7	14.0	13.0	9.1	11.0	8.7	6.9	7.8
4	22.8	15.7	18.9	15.7	12.0	14.1	11.7	8.8	10.5	10.9	7.1	8.7
5	22.7	15.6	18.7	19.6	15.1	17.1	11.0	6.6	8.6	9.7	4.9	7.1
6	21.2	16.2	18.4	19.7	15.0	17.4	10.7	6.0	8.2	10.3	6.0	8.0
7	22.1	16.2	18.6	18.6	13.6	15.9	9.8	5.6	7.6	10.8	6.3	8.4
8	21.7	15.7	18.6	16.4	11.2	13.8	9.6	4.8	7.1	12.8	7.9	10.1
9	21.0	16.8	18.8	16.0	11.0	13.3	9.8	4.9	7.3	12.0	9.9	10.8
10	18.7	---	---	17.4	12.1	14.6	8.4	6.3	7.6	10.6	7.3	8.8
11	16.8	11.8	14.7	---	---	---	10.0	6.6	8.2	10.5	5.0	7.6
12	16.4	9.9	13.4	---	---	---	8.2	4.5	6.1	9.6	5.6	7.5
13	18.2	10.1	13.9	15.7	---	---	7.5	2.8	5.0	---	---	---
14	19.4	11.8	15.6	15.1	10.1	12.5	6.4	3.8	5.1	---	---	---
15	19.2	12.1	15.8	15.3	9.8	12.5	8.1	4.1	6.0	---	---	---
16	19.5	12.9	16.3	14.9	9.4	12.1	6.7	1.9	4.2	---	---	---
17	19.5	12.8	16.0	14.1	9.4	11.8	6.7	3.3	5.1	---	---	---
18	19.7	12.5	16.1	14.6	9.2	11.8	7.8	3.0	5.4	---	---	---
19	19.5	12.5	16.0	14.5	9.2	11.8	7.4	3.1	5.3	---	---	---
20	18.8	12.3	15.6	13.5	8.7	11.3	7.9	4.0	6.0	---	---	---
21	17.9	13.7	15.8	13.1	9.0	11.1	7.4	4.6	6.1	---	---	---
22	18.2	---	---	12.7	9.6	11.1	8.4	4.4	6.3	---	---	---
23	18.1	12.1	15.1	12.6	8.1	10.3	8.1	5.4	6.6	---	---	---
24	16.6	10.8	13.9	10.4	7.2	9.1	7.7	3.3	5.2	---	---	---
25	17.2	10.5	13.7	10.3	8.1	9.4	6.8	2.5	4.2	---	---	---
26	17.3	10.4	14.0	10.7	5.9	8.0	6.3	2.2	4.1	---	---	---
27	18.1	11.9	15.1	8.6	4.9	6.6	7.6	3.9	5.5	---	---	---
28	18.7	12.7	15.8	7.8	3.7	5.8	9.2	5.4	7.2	---	---	---
29	17.7	12.6	15.3	8.3	7.2	7.8	9.2	7.8	8.5	---	---	---
30	16.2	13.6	15.1	11.3	7.9	9.2	10.2	8.5	9.2	---	---	---
31	19.7	14.8	16.6	---	---	---	10.6	8.1	9.2	---	---	---
MONTH	23.9	---	---	---	---	---	13.0	1.9	6.9	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	21.6	11.9	16.4	21.3	11.5	16.1
2	---	---	---	9.8	2.7	5.9	21.7	11.9	16.5	20.7	12.9	16.8
3	---	---	---	11.6	3.0	6.8	21.7	12.5	16.8	23.0	13.0	17.6
4	---	---	---	13.0	4.5	8.4	22.0	12.6	17.1	24.1	13.7	18.5
5	---	---	---	12.6	5.4	8.8	21.0	12.8	16.6	24.2	14.0	18.9
6	---	---	---	11.7	---	---	20.7	13.2	16.5	24.7	14.4	19.2
7	---	---	---	15.8	9.5	12.1	22.1	13.4	17.1	24.2	15.0	19.3
8	10.7	---	---	14.9	7.9	11.3	21.5	12.8	16.9	22.0	12.0	17.0
9	9.2	3.5	6.3	14.9	6.0	10.2	21.8	13.1	17.0	22.5	11.7	16.8
10	10.6	3.4	6.4	12.8	8.3	10.7	22.6	14.0	17.8	22.8	14.7	18.3
11	11.3	4.3	7.5	15.6	7.5	11.2	22.6	13.8	17.8	18.8	13.2	16.4
12	11.3	5.3	8.1	15.0	9.0	12.0	24.1	16.0	19.3	24.3	12.7	18.0
13	9.9	3.9	7.0	16.0	9.5	12.4	24.5	15.1	19.4	25.4	15.1	20.1
14	13.0	7.4	9.7	13.4	6.4	9.6	22.7	14.7	18.7	26.0	15.8	20.7
15	11.6	5.9	8.8	14.3	5.3	9.3	19.0	13.8	16.5	26.0	15.8	20.6
16	13.3	7.0	10.2	11.5	6.8	8.9	19.5	10.5	14.4	26.1	16.0	20.7
17	11.8	7.8	10	14.9	6.4	10.1	18.1	11.9	14.9	27.0	15.8	21.0
18	12.1	8.6	10.1	14.5	8.2	10.8	19.5	11.4	15.0	26.2	16.2	20.9
19	12.3	6.7	9.5	15.7	5.8	10.3	18.4	11.3	14.8	24.9	16.1	20.3
20	14.2	8.2	11.1	17.7	8.1	12.5	19.2	10.7	14.6	23.1	16.3	19.1
21	15.3	8.7	11.8	18.5	9.6	13.8	21.5	10.6	15.4	20.9	12.9	16.5
22	15.0	8.3	11.5	18.8	10.4	14.5	22.3	11.8	16.7	22.9	12.2	17.0
23	15.1	8.7	11.5	16.9	11.4	13.8	21.9	12.9	17.2	23.4	13.8	17.9
24	15.1	8.3	11.5	16.8	11.2	13.4	22.3	13.0	17.4	24.6	13.1	18.5
25	14.1	7.8	10.7	18.8	9.7	13.8	24.4	15.6	19.5	26.1	15.0	20.1
26	12.5	5.2	8.7	19.7	10.3	14.7	20.1	14.3	17.0	24.7	15.6	19.9
27	12.8	6.1	9.4	19.4	10.4	14.8	19.3	12.5	14.9	26.2	15.8	20.5
28	13.8	5.6	9.5	20.3	10.4	15.1	22.6	12.4	17.1	27.7	16.3	21.5
29	---	---	---	19.5	11.9	15.5	23.1	14.3	18.4	28.1	16.5	22.0
30	---	---	---	19.8	11.0	14.9	22.2	13.9	17.6	28.3	17.2	22.5
31	---	---	---	21.3	10.9	15.6	---	---	---	27.6	17.6	22.5
MONTH	---	---	---	---	---	---	24.5	10.5	16.8	28.3	11.5	19.2

09408175 ST. GEORGE-WASHINGTON CANAL NEAR WASHINGTON, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	25.3	18.5	21.5	27.9	18.1	22.7	27.1	20.4	23.2	29.0	20.1	23.9
2	23.7	16.5	20.1	24.4	18.8	21.9	26.1	19.6	22.6	26.3	18.8	22.7
3	24.4	17.4	20.4	25.9	18.0	21.9	28.8	19.3	23.4	29.2	19.6	23.8
4	27.2	15.5	20.6	29.5	17.8	23.0	27.3	19.7	23.1	28.6	19.3	23.5
5	28.5	16.3	22.0	27.2	18.7	22.7	26.6	18.0	21.9	---	20.0	---
6	29.8	18.2	23.6	28.6	18.3	23.0	27.1	18.1	22.1	24.0	20.3	22.2
7	28.1	18.4	22.9	29.3	18.5	23.5	27.6	17.8	22.2	21.7	---	---
8	27.2	17.4	21.8	30.1	18.0	23.5	28.1	16.9	22.0	23.6	19.5	21.3
9	24.4	16.5	20.1	30.3	18.5	23.8	28.8	17.1	22.4	---	---	---
10	26.0	14.1	19.4	28.9	19.6	23.4	28.6	17.6	22.6	---	---	---
11	27.1	15.2	20.7	30.5	19.6	24.3	28.4	17.3	22.4	---	---	---
12	28.8	16.1	22.1	31.1	20.3	25.1	27.9	17.4	22.2	---	---	---
13	29.5	16.8	22.7	30.5	20.4	25.0	28.2	18.6	22.7	26.7	---	---
14	28.9	17.2	22.8	29.4	21.2	24.8	28.0	18.5	22.7	---	---	---
15	28.6	17.2	22.5	28.3	20.5	23.8	28.3	18.4	22.7	---	---	---
16	29.4	17.0	22.7	25.4	20.5	22.5	29.0	18.8	23.2	---	---	---
17	29.1	17.5	23.0	25.0	20.2	22.0	29.8	19.9	24.3	---	---	---
18	28.7	17.6	22.9	28.8	19.8	23.4	30.7	20.0	25.0	---	---	---
19	30.3	17.6	23.4	27.1	19.8	23.4	29.4	20.3	24.6	---	---	---
20	28.8	19.0	23.5	29.2	19.6	23.8	29.9	21.6	24.9	---	---	---
21	24.5	18.2	21.5	29.0	19.5	23.8	28.3	19.8	23.4	---	---	---
22	28.5	16.9	22.1	29.4	19.2	23.8	30.1	18.2	22.6	---	---	---
23	29.1	16.8	22.5	30.5	20.5	24.7	27.8	17.8	22.4	---	---	---
24	29.2	17.2	22.8	29.2	21.5	25.0	29.3	17.1	22.8	---	---	---
25	29.5	17.6	23.2	28.2	16.0	23.1	29.1	18.0	23.2	---	---	---
26	29.4	18.2	23.4	29.2	20.4	24.3	28.9	17.5	22.7	---	---	---
27	29.6	18.2	23.5	29.2	20.1	24.0	28.7	17.0	22.5	---	---	---
28	28.9	17.1	22.7	28.8	19.2	23.4	28.2	17.9	22.5	---	---	---
29	28.9	17.1	22.5	29.8	18.0	23.1	28.5	17.4	22.5	---	---	---
30	27.7	17.6	22.3	29.4	18.2	23.2	27.3	18.3	22.6	---	---	---
31	---	---	---	28.4	18.7	23.1	26.7	17.6	22.0	---	---	---
MONTH	30.3	14.1	22.2	31.1	16.0	23.5	30.7	16.9	22.9	---	---	---

VIRGIN RIVER BASIN

09408195 FORT PEARCE WASH NEAR ST. GEORGE, UT

LOCATION.--Lat 37°00'06", long 113°28'05", in NE¹/₄NE¹/₄SW¹/₄ sec. 31, T. 43 S., R. 14 W., Washington County, Hydrologic Unit 15010009, on left bank 20 ft upstream of road crossing, 0.12 mi north of Arizona-Utah boundary, and about 10 mi southeast of St. George.

DRAINAGE AREA.--1,349 mi².

REVISED RECORD.--WDR UT-88-1: Drainage area.

PERIOD OF RECORD.--October 1984 to September 1989, May 2001 to current year. Published as Fort Pierce Wash near St. George, October 1984 to September 1989.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,800 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft³/s, Aug 18, 1989, gage height, 9.93 ft; no flow for extended periods most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 469 ft³/s, Sep 6, gage height, 6.47 ft; no flow on many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00
4	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00
6	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	21
7	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	13
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	e0.00	0.00	---
TOTAL	6.50	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.66
MEAN	0.210	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.222
MAX	4.5	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	13	0.00	0.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985-89, 2002, BY WATER YEAR (WY)

	0.466	0.084	0.027	0.024	0.026	0.028	0.073	0.074	0.296	0.442	0.824	0.274
MEAN	0.466	0.084	0.027	0.024	0.026	0.028	0.073	0.074	0.296	0.442	0.824	0.274
MAX	1.03	0.49	0.16	0.15	0.097	0.089	0.36	0.44	1.77	1.67	3.49	1.14
(WY)	1987	1988	1985	1985	1986	1985	1988	1987	1988	1987	1989	2002
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1989	1986	1986	1986	1987	1987	1986	1986	1986	1989	1985	1985

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 1985-89, 2002

ANNUAL TOTAL	43.32		
ANNUAL MEAN	0.119		
HIGHEST ANNUAL MEAN		0.231	
LOWEST ANNUAL MEAN		0.067	1986
HIGHEST DAILY MEAN	21	58	Aug 18 1989
LOWEST DAILY MEAN	0.00	0.00	Oct 26 1984
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00	Oct 26 1984
ANNUAL RUNOFF (AC-FT)	86	168	
10 PERCENT EXCEEDS	0.00	0.06	
50 PERCENT EXCEEDS	0.00	0.00	
90 PERCENT EXCEEDS	0.00	0.00	

e Estimated

09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT

LOCATION.--Lat 37°23'00" long 113°28'57", in NW¹/₄SE¹/₄NE¹/₄ sec. 24, T. 39 S., R. 15 W., Washington County, Hydrologic Unit 15010008, Dixie National Forest, on right bank 150 ft upstream from highway bridge, 0.6 mi downstream from Pine Valley Reservoir, 1.6 mi southeast of town of Pine Valley, and 2.5 mi upstream from Grass Valley Creek.

DRAINAGE AREA.--18.7 mi².

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,640 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for discharges less than 2 ft³/s and estimated daily discharges, which are poor. Flow slightly regulated by Pine Valley Reservoir. No diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 776 ft³/s, Dec 6, 1966, gage height, 6.85 ft; minimum daily discharge, 0.19 ft³/s, Aug 15, 2002.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 13	0730	*3.3	*1.31				

Minimum daily discharge, 0.19 ft³/s, Aug 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.8	e2.5	e1.2	e0.40	1.3	1.4	0.85	0.41	0.23	0.23	0.26
2	2.9	2.8	2.5	e1.2	e0.40	e1.2	1.4	0.89	0.46	0.23	0.25	0.26
3	2.9	2.8	2.6	e1.2	e0.40	e1.3	1.4	0.89	0.49	0.23	0.25	0.26
4	2.9	2.8	2.8	e1.1	e0.40	1.5	1.4	0.83	0.47	0.23	0.22	0.25
5	2.9	2.8	e2.4	e0.90	e0.50	1.4	1.3	0.78	0.42	0.24	0.20	0.28
6	2.9	2.7	e2.2	e1.1	e0.60	1.4	1.2	0.76	0.45	0.24	0.20	0.53
7	3.0	2.7	e2.2	e1.3	e0.70	1.4	1.3	0.74	0.40	0.23	0.21	0.53
8	3.0	2.7	e2.2	e1.5	e0.90	1.5	1.3	0.74	0.37	0.23	0.21	0.56
9	2.9	2.7	e2.3	e1.4	e1.2	e1.4	1.2	0.74	0.33	0.24	0.23	0.48
10	2.9	2.7	e2.4	e1.2	1.6	1.4	1.4	0.74	0.35	0.27	0.26	0.46
11	2.8	2.7	e2.5	e0.90	1.7	1.4	1.5	0.74	0.38	0.26	0.23	0.54
12	2.8	2.7	e2.4	e1.0	1.6	1.4	1.4	0.74	0.38	0.28	0.21	0.59
13	2.9	3.1	e2.5	e1.0	e1.6	1.4	1.4	0.74	0.36	0.28	0.21	0.51
14	2.9	2.9	e2.3	e0.80	1.6	1.5	1.3	0.70	0.34	0.20	0.21	0.45
15	2.8	2.8	e1.9	e0.70	1.6	e1.3	1.2	0.69	0.31	0.25	0.19	0.42
16	2.9	2.8	e1.4	e0.50	1.5	e1.3	1.2	0.65	0.32	0.28	0.20	0.40
17	2.9	2.7	e1.4	e0.50	1.5	e1.3	1.2	0.64	0.31	0.31	0.22	0.40
18	2.9	2.7	e1.7	e0.50	1.6	1.4	1.2	0.60	0.31	0.36	0.22	0.40
19	2.9	2.7	e1.9	e0.50	1.4	e1.3	1.2	0.58	0.31	0.30	0.23	0.40
20	2.9	2.7	e2.0	e0.60	1.4	1.4	1.2	0.53	0.31	0.30	0.25	0.40
21	2.9	2.7	e1.8	e0.70	1.4	1.4	1.1	0.59	0.26	0.30	0.25	0.40
22	2.8	2.7	e1.6	e0.90	1.4	1.4	1.0	0.63	0.27	0.27	0.24	0.40
23	2.8	2.6	e1.3	e0.60	1.4	1.4	1.0	0.64	0.26	0.25	0.24	0.40
24	2.8	2.6	e1.2	e0.50	1.4	1.7	0.99	0.63	0.25	0.25	0.23	0.39
25	2.8	3.0	e0.90	e0.60	1.4	1.5	0.95	0.57	0.24	0.49	0.24	0.39
26	2.8	e2.4	e0.80	e0.90	1.5	1.4	0.93	0.57	0.24	0.34	0.24	0.39
27	2.7	2.7	e0.80	e0.90	1.4	1.4	1.2	0.54	0.23	0.27	0.23	0.40
28	2.7	e2.4	e0.80	e0.80	1.4	1.4	1.0	0.53	0.22	0.25	0.24	0.42
29	2.7	2.7	e1.0	e0.60	---	1.4	0.88	0.54	0.21	0.23	0.25	0.70
30	2.7	2.7	e1.2	e0.50	---	1.6	0.81	0.51	0.22	0.23	0.25	0.54
31	3.0	---	e1.2	e0.40	---	1.6	---	0.45	---	0.23	0.26	---
TOTAL	88.6	81.8	56.70	26.50	33.90	43.7	35.96	20.77	9.88	8.30	7.10	12.81
MEAN	2.858	2.727	1.829	0.855	1.211	1.410	1.199	0.670	0.329	0.268	0.229	0.427
MAX	3.0	3.1	2.8	1.5	1.7	1.7	1.5	0.89	0.49	0.49	0.26	0.70
MIN	2.7	2.4	0.80	0.40	0.40	1.2	0.81	0.45	0.21	0.20	0.19	0.25
AC-FT	176	162	112	53	67	87	71	41	20	16	14	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2002, BY WATER YEAR (WY)

MEAN	3.455	3.750	3.574	2.625	3.107	6.373	16.64	32.80	24.43	10.64	5.892	3.996
MAX	12.5	21.4	30.3	5.08	8.29	24.8	43.4	122	126	47.9	23.2	12.1
(WY)	1973	1988	1967	1979	1995	1995	1969	1973	1983	1983	1983	1983
MIN	0.84	0.95	1.02	0.85	0.68	1.20	1.20	0.67	0.33	0.27	0.23	0.43
(WY)	1978	1978	1978	2002	1990	1977	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1960 - 2002

ANNUAL TOTAL	3661.20	426.02	
ANNUAL MEAN	10.03	1.167	
HIGHEST ANNUAL MEAN			9.798
LOWEST ANNUAL MEAN			29.4
HIGHEST DAILY MEAN	79	May 14	1.17
LOWEST DAILY MEAN	0.80	Dec 26	397
ANNUAL SEVEN-DAY MINIMUM	0.96	Dec 24	0.19
ANNUAL RUNOFF (AC-FT)	7260		0.21
10 PERCENT EXCEEDS	27		0.21
50 PERCENT EXCEEDS	4.1		7100
90 PERCENT EXCEEDS	2.4		23
			3.8
			1.6

e Estimated

09409100 SANTA CLARA RIVER ABOVE BAKER RESERVOIR, NEAR CENTRAL, UT

LOCATION.--Lat 37°23'05", long 113°37'52", in SW¹/₄NW¹/₄NE¹/₄ sec. 22, T. 39 S., R. 16 W., Washington County, Hydrologic Unit 15010008, on left bank 0.6 mi downstream from Kane Spring Draw, 0.8 mi upstream from Baker Dam, 2.6 mi south of Central, Utah, and 4.0 mi north of Veyo.

DRAINAGE AREA.--116 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 4,875 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges and flows less than 2.0 ft³/s, which are poor. Diversion 0.5 mi upstream for power generation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,160 ft³/s (estimated), Mar 11, 1995, gage height, 5.79 ft, from rating curve extended above 100 ft³/s on basis of slope-area measurement at gage height, 2.28 ft and velocity-area measurement at gage height, 2.78 ft; minimum daily discharge, 0.08 ft³/s, Aug 9-14, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec 6, 1966 reached a discharge of 2,080 ft³/s, from flow over dam measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.8 ft³/s, Apr 25, 26, gage height, 0.93 ft; minimum daily discharge, 0.08 ft³/s, Aug 9-14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.25	0.47	0.45	0.51	0.36	0.35	0.30	6.2	0.13	0.13	0.11	4.8
2	0.25	0.49	0.40	0.53	0.35	0.28	0.30	6.5	0.14	0.13	0.11	5.4
3	0.26	0.49	0.44	0.69	0.33	0.27	0.29	6.3	0.14	0.12	0.11	5.2
4	0.26	0.45	0.45	0.66	0.34	0.26	0.28	6.5	0.15	0.12	0.10	4.9
5	0.25	0.50	0.40	0.67	0.35	0.27	0.28	6.4	0.17	0.12	0.10	5.1
6	0.27	0.45	0.42	0.69	0.36	0.27	0.28	6.3	0.18	0.11	0.10	5.2
7	0.27	0.52	0.39	0.66	0.40	0.28	0.28	6.2	0.18	0.11	0.09	5.2
8	0.28	0.53	0.35	0.63	0.43	0.30	0.28	6.2	0.16	0.11	0.09	4.9
9	0.28	0.50	0.44	0.55	0.36	0.29	0.28	6.3	0.19	0.11	0.08	4.9
10	0.27	0.50	0.44	0.54	0.38	0.30	0.28	6.3	0.20	0.12	0.08	5.0
11	0.30	0.45	0.42	0.46	0.40	0.30	0.28	6.5	0.20	0.12	0.08	5.2
12	0.31	0.46	0.30	0.49	0.44	0.30	0.28	6.4	0.18	0.12	0.08	5.0
13	0.27	0.63	0.30	0.46	0.40	0.30	0.28	6.3	0.17	0.11	0.08	4.9
14	0.27	0.63	0.38	0.43	0.39	0.30	0.28	6.2	0.17	0.10	0.08	4.8
15	0.27	0.51	0.42	0.47	0.35	0.29	0.29	6.1	0.17	0.10	2.0	4.9
16	0.27	0.55	0.32	0.34	0.36	0.29	0.35	6.1	0.17	0.12	4.6	4.8
17	0.28	0.54	0.37	0.34	0.37	0.27	0.35	6.0	0.17	0.14	4.6	5.0
18	0.31	0.50	0.37	0.35	0.41	0.26	0.35	5.9	0.16	0.12	4.6	5.0
19	0.28	0.50	0.36	0.34	0.35	0.25	0.35	6.0	0.17	0.11	4.6	4.8
20	0.29	0.48	0.39	0.37	0.42	0.27	0.35	6.1	0.16	0.10	4.6	4.7
21	0.28	0.50	0.38	0.44	0.41	0.34	0.35	6.3	0.18	0.10	4.6	4.7
22	0.28	0.50	0.38	0.57	0.38	0.35	0.35	6.3	0.18	0.10	4.5	4.7
23	0.30	0.50	0.44	0.41	0.35	0.35	0.33	6.3	0.17	0.10	4.6	4.8
24	0.30	0.68	0.37	0.39	0.35	0.36	0.30	6.1	0.14	0.10	4.6	4.9
25	0.30	1.0	0.37	0.41	0.33	0.36	4.6	6.1	0.12	0.11	4.5	4.9
26	0.30	0.62	0.39	0.45	0.36	0.35	7.3	6.2	0.12	0.10	4.4	4.8
27	0.35	0.41	0.53	0.40	0.37	0.37	7.1	6.0	0.13	0.09	4.4	4.6
28	0.52	0.40	0.50	0.40	0.38	0.35	6.4	6.0	0.12	0.10	4.4	4.6
29	0.53	0.57	0.50	0.38	---	0.35	6.2	6.0	0.12	0.09	4.5	4.9
30	0.50	0.49	0.50	0.38	---	0.32	6.2	2.2	0.13	0.09	4.6	4.9
31	0.55	---	0.54	0.36	---	0.30	---	0.13	---	0.10	4.6	---
TOTAL	9.70	15.82	12.71	14.77	10.48	9.50	45.14	182.43	4.77	3.40	75.99	147.5
MEAN	0.313	0.527	0.410	0.476	0.374	0.306	1.505	5.885	0.159	0.110	2.451	4.917
MAX	0.55	1.0	0.54	0.69	0.44	0.37	7.3	6.5	0.20	0.14	4.6	5.4
MIN	0.25	0.40	0.30	0.34	0.33	0.25	0.28	0.13	0.12	0.09	0.08	4.6
AC-FT	19	31	25	29	21	19	90	362	9.5	6.7	151	293

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

	2.786	3.771	3.194	2.681	3.112	11.29	9.912	21.19	17.54	6.346	2.664	3.997
MEAN	2.786	3.771	3.194	2.681	3.112	11.29	9.912	21.19	17.54	6.346	2.664	3.997
MAX	14.6	12.9	10.6	12.9	11.8	63.7	35.1	77.8	84.1	32.1	7.36	15.5
(WY)	1996	1996	1993	1993	1993	1995	1993	1993	1995	1995	1995	1995
MIN	0.31	0.50	0.40	0.47	0.37	0.31	0.87	0.47	0.16	0.11	0.18	0.23
(WY)	2002	1990	1990	2000	2002	2002	1996	1990	2002	2002	2001	2001

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1990 - 2002

ANNUAL TOTAL	2112.75	532.21	
ANNUAL MEAN	5.788	1.458	7.390
HIGHEST ANNUAL MEAN			24.5
LOWEST ANNUAL MEAN			1.39
HIGHEST DAILY MEAN	76	May 14	393
LOWEST DAILY MEAN	0.12	Jul 19	0.08
ANNUAL SEVEN-DAY MINIMUM	0.13	Jul 18	0.08
ANNUAL RUNOFF (AC-FT)	4190	1060	5350
10 PERCENT EXCEEDS	20	5.2	18
50 PERCENT EXCEEDS	0.50	0.37	1.2
90 PERCENT EXCEEDS	0.20	0.12	0.34

e Estimated

09409880 SANTA CLARA RIVER AT GUNLOCK, UT

LOCATION.--Lat 37°16'55", long 113°46'00", in SW¹/₄SW¹/₄NW¹/₄ sec. 28, T. 40 S., R. 17 W., Washington County, Hydrologic Unit 15010008, on right bank at downstream side of bridge on county road at Gunlock, 0.5 mi downstream from tailrace of powerhouse.

DRAINAGE AREA.--271 mi².

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder. Crest-stage gage since May 24, 1989. Elevation of gage is 3,628 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for daily discharges less than 2 ft³/s, which are poor. Many diversions for irrigation upstream of gage. Some regulation of low flow by several reservoirs and powerplant upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft³/s, estimated, Mar 11, 1995, gage height, 8.07 ft; no flow several days during 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 154 ft³/s, Sep 8, gage height, 3.93 ft; minimum daily discharge, 0.35 ft³/s, Aug 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	8.3	13	14	10	8.4	3.5	3.1	12	1.1	0.59	4.2
2	4.4	8.4	13	14	12	9.8	4.5	2.2	9.9	1.4	1.5	3.5
3	4.3	8.1	13	14	12	9.0	5.7	6.0	12	1.5	1.6	2.5
4	4.1	8.2	13	14	12	7.2	5.9	4.0	12	1.5	1.6	1.8
5	4.8	6.9	13	14	13	6.2	8.3	5.1	10	1.4	1.4	4.7
6	10	5.6	13	14	13	6.6	6.9	2.4	12	1.4	0.78	5.4
7	6.9	5.7	14	14	12	7.7	6.8	2.6	13	1.8	1.0	6.8
8	4.8	6.5	13	14	12	9.9	6.7	2.9	6.1	1.0	0.91	24
9	4.9	9.5	13	13	11	9.2	2.5	2.8	5.3	1.0	0.97	8.7
10	4.6	10	13	13	11	8.6	3.0	6.2	2.1	0.81	1.2	5.7
11	4.1	9.9	13	14	9.8	8.5	3.1	9.3	2.4	0.67	1.2	13
12	5.6	11	13	14	9.2	5.6	10	8.0	1.8	0.86	0.90	14
13	5.5	12	12	14	9.4	3.5	12	6.5	1.7	1.2	1.1	7.1
14	5.4	12	12	13	9.5	3.6	8.5	6.5	1.4	1.4	0.54	6.0
15	5.6	12	13	13	9.5	2.9	5.3	13	2.6	0.73	0.35	5.7
16	5.8	12	13	13	9.0	4.1	3.8	13	2.1	1.0	0.65	4.6
17	5.5	12	12	13	8.6	4.4	3.8	14	1.7	1.2	1.2	2.7
18	5.5	12	13	13	9.9	4.0	5.3	17	1.9	1.8	1.2	3.4
19	5.5	13	13	13	11	3.7	8.1	15	2.0	2.3	0.42	3.5
20	6.3	13	14	13	9.5	3.6	7.8	13	1.3	2.1	0.41	3.6
21	6.3	12	14	13	9.8	3.4	7.5	13	1.8	1.8	1.0	4.1
22	6.0	13	14	13	9.1	3.4	4.7	14	2.1	0.90	0.98	4.6
23	5.7	12	14	13	10	2.7	5.7	14	2.2	1.4	1.2	4.5
24	6.0	13	14	13	9.9	3.7	4.9	15	2.4	1.4	1.1	2.8
25	6.4	14	14	12	9.2	5.5	5.9	15	1.5	1.2	1.6	2.5
26	6.6	13	14	12	9.4	4.6	6.6	11	1.3	1.4	1.2	3.6
27	6.5	13	14	12	9.7	3.9	9.4	11	1.4	1.5	0.65	4.4
28	7.0	12	14	12	9.7	4.4	8.7	11	1.7	1.2	1.5	4.7
29	7.1	13	14	12	---	4.5	4.9	6.4	1.9	0.65	0.63	5.0
30	7.4	13	14	12	---	5.4	3.6	7.3	1.4	1.3	2.4	3.0
31	8.1	---	14	12	---	3.8	---	9.1	---	0.94	3.7	---
TOTAL	180.9	324.1	413	407	290.2	171.8	183.4	279.4	131.0	39.86	35.48	170.1
MEAN	5.835	10.80	13.32	13.13	10.36	5.542	6.113	9.013	4.367	1.286	1.145	5.670
MAX	10	14	14	14	13	9.9	12	17	13	2.3	3.7	24
MIN	4.1	5.6	12	12	8.6	2.7	2.5	2.2	1.3	0.65	0.35	1.8
AC-FT	359	643	819	807	576	341	364	554	260	79	70	337

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2002, BY WATER YEAR (WY)

	10.83	15.49	15.87	21.37	37.59	52.12	39.64	41.18	30.28	11.93	9.064	8.621
MEAN	10.83	15.49	15.87	21.37	37.59	52.12	39.64	41.18	30.28	11.93	9.064	8.621
MAX	28.0	30.9	26.0	95.4	372	211	150	222	138	40.4	30.5	26.5
(WY)	1984	1981	1981	1980	1980	1979	1973	1973	1973	1995	1980	1980
MIN	3.14	5.78	7.72	4.73	7.69	5.54	6.05	5.14	4.37	1.29	1.14	2.79
(WY)	1992	1990	1978	1972	1972	2002	1977	1989	2002	2002	2002	1990

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1970 - 2002

ANNUAL TOTAL	5912.7	2626.24	
ANNUAL MEAN	16.20	7.195	
HIGHEST ANNUAL MEAN			24.41
LOWEST ANNUAL MEAN			86.8
HIGHEST DAILY MEAN	93	Mar 10	2040
LOWEST DAILY MEAN	1.1	Sep 14	0.00
ANNUAL SEVEN-DAY MINIMUM	1.8	Sep 13	0.02
ANNUAL RUNOFF (AC-FT)	11730	5210	17680
10 PERCENT EXCEEDS	34	13	49
50 PERCENT EXCEEDS	13	6.4	13
90 PERCENT EXCEEDS	4.1	1.2	4.6

VIRGIN RIVER BASIN

09413000 SANTA CLARA RIVER AT ST. GEORGE, UT

LOCATION.--Lat 37°04'31", long 113°35'32", in SE¹/₄SW¹/₄NE¹/₄ sec. 1, T. 43 S., R. 16 W., Washington County, Hydrologic Unit 15010008 on right bank 0.8 mi upstream from mouth and 2 mi south of St. George.

DRAINAGE AREA.--541 mi².

PERIOD OF RECORD.--October 1950 to September 1956, November 1984 to current year.

GAGE.--Water-stage recorder. Crest-stage gage since January 27, 1993. Elevation of gage is 2,560 ft above NGVD of 1929, from topographic map. October 1950 to September 1956, gage located 0.25 mi downstream and November 1984 to September 1989, 0.5 mi downstream from present site, both at different datum.

REMARKS.--Records fair except for discharges less than 2.0 ft³/s and estimated daily discharges, which are poor. Flow regulated by reservoirs and many diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,000 ft³/s, Mar 12, 1995, gage height, 14.60 ft, from rating curve extended above 2,800 ft³/s; no flow at times in 1951, 1953, 1955-56, 1989, 1991, and 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49 ft³/s, Jul 24, gage height, 5.54 ft; minimum daily discharge, 0.04 ft³/s, Aug 22, 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.6	4.7	5.0	2.8	3.7	3.6	2.0	0.75	0.36	0.11	0.05
2	3.5	1.5	4.7	4.7	2.9	3.2	2.8	2.3	0.78	0.42	0.35	0.06
3	3.5	2.1	5.0	4.9	2.9	3.3	3.1	2.2	1.1	0.39	0.45	0.06
4	1.7	2.0	5.2	4.8	3.0	2.9	2.3	1.7	0.97	1.1	0.18	0.08
5	1.3	2.5	4.5	4.8	2.9	3.2	2.1	1.6	1.0	1.0	0.12	0.08
6	1.4	2.7	4.7	4.7	2.7	2.9	2.4	1.9	0.89	0.90	0.28	0.60
7	1.6	2.8	4.6	4.9	2.6	3.1	2.8	2.3	0.70	0.38	0.10	1.1
8	1.3	2.9	4.5	4.1	2.6	4.0	2.4	1.9	0.82	0.33	0.11	1.00
9	1.3	3.1	4.6	4.1	2.6	3.2	2.5	1.8	0.78	0.32	0.11	0.70
10	1.2	3.0	5.8	4.0	2.6	4.8	2.0	1.7	0.87	0.33	0.11	0.26
11	1.3	2.4	4.9	3.1	2.7	3.1	2.7	1.6	0.84	0.30	0.10	0.66
12	1.5	2.7	4.7	3.4	2.7	3.1	2.4	1.4	0.76	0.20	0.09	2.7
13	1.4	2.7	4.6	3.7	2.2	3.0	2.3	1.5	0.50	0.15	0.07	1.2
14	1.2	3.8	4.7	3.7	1.5	4.7	3.4	1.8	1.0	0.10	0.06	0.87
15	1.0	3.2	5.4	3.8	1.6	5.0	2.2	1.5	1.2	0.10	0.05	0.56
16	1.2	2.5	5.6	4.1	1.6	7.8	3.3	1.7	1.0	0.12	0.15	0.37
17	1.3	3.0	5.2	4.2	1.8	5.5	5.4	1.5	0.60	0.14	0.12	0.46
18	1.4	2.2	3.4	4.2	2.6	4.2	3.3	1.4	0.50	0.15	0.07	0.44
19	1.9	2.1	4.4	4.8	3.1	5.0	2.6	1.6	0.45	0.13	0.07	0.37
20	2.3	3.3	5.5	4.8	3.0	6.2	3.3	1.7	0.60	0.18	0.07	0.33
21	2.1	2.7	4.6	4.8	2.7	4.9	3.0	1.7	1.1	0.12	0.05	0.35
22	2.1	2.5	4.3	4.7	2.5	4.2	2.2	2.0	0.85	0.12	0.04	0.30
23	2.1	2.9	4.4	5.2	2.8	3.1	1.4	2.0	0.60	0.11	0.05	0.32
24	1.7	4.3	4.2	5.7	2.6	4.2	1.7	2.3	0.40	2.9	0.06	0.50
25	1.6	5.7	4.3	6.0	2.6	5.2	1.6	1.6	0.30	0.80	0.06	0.64
26	1.7	4.5	4.4	5.9	3.4	3.9	1.9	1.8	0.47	0.13	0.05	0.31
27	1.9	4.5	4.5	5.8	3.4	4.9	2.5	2.4	0.66	0.13	0.07	0.87
28	2.0	4.3	4.5	5.7	3.5	2.4	2.2	1.7	0.37	0.15	0.05	0.76
29	2.3	4.2	6.0	4.8	---	3.1	2.0	1.3	0.81	0.28	0.04	0.61
30	1.9	4.6	5.3	2.9	---	2.9	2.3	1.1	0.47	0.33	0.06	0.67
31	1.5	---	7.7	2.8	---	4.4	---	0.94	---	0.11	0.06	---
TOTAL	54.1	92.3	150.9	140.1	73.9	125.1	77.7	53.94	22.14	12.28	3.36	17.28
MEAN	1.745	3.077	4.868	4.519	2.639	4.035	2.590	1.740	0.738	0.396	0.108	0.576
MAX	3.5	5.7	7.7	6.0	3.5	7.8	5.4	2.4	1.2	2.9	0.45	2.7
MIN	1.0	1.5	3.4	2.8	1.5	2.4	1.4	0.94	0.30	0.10	0.04	0.05
AC-FT	107	183	299	278	147	248	154	107	44	24	6.7	34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-56, 1986-2002, BY WATER YEAR (WY)

	3.482	5.341	6.673	12.72	16.45	34.20	21.80	14.57	10.04	5.051	6.027	3.835
MEAN	3.482	5.341	6.673	12.72	16.45	34.20	21.80	14.57	10.04	5.051	6.027	3.835
MAX	10.5	22.1	26.5	128	136	313	136	80.8	73.5	29.1	38.8	12.7
(WY)	1999	1999	1999	1993	1993	1995	1952	1993	1995	1995	1955	1998
MIN	0.22	0.59	0.91	0.82	0.79	1.44	1.50	1.09	0.31	0.36	0.055	0.29
(WY)	1991	1991	1992	1991	1991	1991	1991	1990	1990	1990	1956	1953

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1951-56, 1986-2002

ANNUAL TOTAL	1550.62	823.10	
ANNUAL MEAN	4.248	2.255	11.87
HIGHEST ANNUAL MEAN			56.0
LOWEST ANNUAL MEAN			1.18
HIGHEST DAILY MEAN	47	7.8	2910
LOWEST DAILY MEAN	0.52	0.04	0.00
ANNUAL SEVEN-DAY MINIMUM	0.73	0.05	0.00
ANNUAL RUNOFF (AC-FT)	3080	1630	8600
10 PERCENT EXCEEDS	8.3	4.8	22
50 PERCENT EXCEEDS	3.7	2.0	3.5
90 PERCENT EXCEEDS	0.92	0.12	0.50

e Estimated

09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT

LOCATION.--Lat 37°04'14", long 113°34'55", in SE¹/₄NW¹/₄SW¹/₄ sec. 6, T. 43 S., R. 15 W., Washington County, Hydrologic Unit 15010010, on left bank 0.2 mi downstream from mouth of Santa Clara River, 0.2 mi upstream from I-15 bridge, and about 1.5 mi northeast of Bloomington and 2.5 mi south of St. George.

DRAINAGE AREA.--3,994 mi².

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

REVISED RECORD.--WDR-UT-92-1: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage since May 9, 1989. Elevation of gage is 2,530 ft above NGVD of 1929, from topographic map. May 18, 1992 to February 20, 1993 at site 180 ft upstream at same datum. Prior to September 19, 1978 at site 1.5 mi downstream at different datum.

REMARKS.--Records are good except for Nov 16-28, which are fair, and Feb 12 to May 29 and estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60,000 ft³/s (estimated on basis of slope conveyance), Jan 1, 1989, gage height, 25.70 ft, result of Quail Creek reservoir dike failure; minimum daily discharge, 7.6 ft³/s, Aug 18, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,310 ft³/s, Sep 7, gage height, 5.88 ft; minimum daily discharge, 7.6 ft³/s, Aug 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	62	106	106	88	105	e37	44	18	13	13	12
2	43	74	103	118	98	81	e30	50	13	15	14	16
3	50	65	108	119	97	71	33	25	23	17	16	12
4	49	65	106	76	97	70	e28	24	23	18	21	9.9
5	43	84	103	70	93	81	e26	24	29	15	22	12
6	52	76	97	68	94	100	e25	28	25	15	16	14
7	73	65	102	67	86	62	36	33	20	17	20	574
8	91	61	101	70	80	62	e38	20	15	13	15	206
9	73	51	103	75	83	52	44	26	16	13	18	371
10	73	62	104	74	73	50	50	24	16	12	15	109
11	45	78	116	70	57	e42	40	25	14	19	10	95
12	58	96	116	75	49	e41	e35	21	15	14	14	138
13	69	80	112	81	54	e40	34	26	17	17	12	107
14	65	84	116	76	43	e55	e34	22	16	10	16	76
15	89	89	130	79	44	41	e44	e20	12	14	11	65
16	76	71	118	81	49	58	64	25	12	15	9.4	70
17	71	72	119	84	42	65	56	20	11	13	11	49
18	70	79	119	81	46	49	64	e18	15	22	7.6	31
19	72	83	127	83	52	46	56	e17	13	26	13	43
20	74	83	133	91	55	55	57	e17	13	21	9.9	28
21	77	89	132	91	54	53	42	e16	13	28	8.4	32
22	100	88	133	83	53	48	51	34	14	20	11	18
23	81	87	135	78	54	e43	56	28	18	24	9.7	36
24	83	90	156	70	59	e43	48	26	19	40	17	21
25	79	118	177	76	54	76	e47	e15	13	181	15	20
26	66	115	175	82	55	55	60	e15	11	57	14	39
27	52	104	175	88	63	46	85	39	11	11	12	20
28	75	105	186	87	66	49	93	e28	14	20	11	19
29	80	103	201	91	---	54	81	21	16	12	13	52
30	71	115	210	90	---	48	72	21	15	26	19	121
31	64	---	141	80	---	e40	---	23	---	22	11	---
TOTAL	2114	2494	4060	2560	1838	1781	1466	775	480	760	425.0	2415.9
MEAN	68.19	83.13	131.0	82.58	65.64	57.45	48.87	25.00	16.00	24.52	13.71	80.53
MAX	100	118	210	119	98	105	93	50	29	181	22	574
MIN	43	51	97	67	42	40	25	15	11	10	7.6	9.9
AC-FT	4190	4950	8050	5080	3650	3530	2910	1540	952	1510	843	4790

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2002, BY WATER YEAR (WY)

	MEAN	121.9	161.6	173.8	228.5	294.1	381.4	416.6	468.1	172.7	86.21	94.34	109.7
MAX	322	286	350	695	1642	1124	1335	1839	1146	244	246	422	
(WY)	1984	1984	1984	1989	1980	1995	1993	1983	1983	1984	1982	1998	
MIN	44.4	51.4	71.5	64.7	56.1	48.8	47.2	25.0	16.0	20.5	13.7	31.7	
(WY)	1991	1991	1991	1991	1991	1990	1990	2002	2002	1990	2002	1996	

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1978 - 2002	
ANNUAL TOTAL	41362		21168.9			
ANNUAL MEAN	113.3		58.00		225.3	
HIGHEST ANNUAL MEAN					628	
LOWEST ANNUAL MEAN					58.0	
HIGHEST DAILY MEAN	540	Mar 10	574	Sep 7	13000	Jan 1 1989
LOWEST DAILY MEAN	11	Jul 4	7.6	Aug 18	7.6	Aug 18 2002
ANNUAL SEVEN-DAY MINIMUM	16	Jun 28	10	Aug 15	10	Aug 15 2002
ANNUAL RUNOFF (AC-FT)	82040		41990		163300	
10 PERCENT EXCEEDS	253		106		490	
50 PERCENT EXCEEDS	96		50		127	
90 PERCENT EXCEEDS	24		13		31	

e Estimated

VIRGIN RIVER BASIN

09413500 VIRGIN RIVER NEAR ST. GEORGE, UT

LOCATION.--Lat 37°00'52", long 113°40'47", in NW¹/₄NE¹/₄SE¹/₄ sec. 30, T. 43 S., R. 16 W., Washington County, Hydrologic Unit 15010010, Bureau of Land Management, on right bank immediately upstream from Beaver Dam Mountains Wilderness Area, and 8.0 mi southwest of St. George.

DRAINAGE AREA.--4,123 mi².

PERIOD OF RECORD.--October 1950 to December 1956, October 1991 to current year.

REVISED RECORDS.--WDR UT-92-1: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 2,400 ft above NGVD of 1929, from topographic map. October 1950 to December 1956, gage located about 400 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Many diversions upstream of gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft³/s, Aug 25, 1955, gage height 12.70 ft, site and datum then in use; no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 60,000 ft³/s (estimated), Jan 1, 1989, gage height, about 30.0 ft, result of Quail Creek reservoir dike failure.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,160 ft³/s, Sep 7, gage height, 7.03 ft; minimum daily discharge, 8.9 ft³/s, Aug 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	75	121	119	83	88	44	49	20	13	14	14
2	54	82	120	121	103	85	39	49	18	13	14	16
3	56	e74	120	133	100	71	42	41	22	13	14	12
4	54	e74	113	117	103	64	38	37	26	15	17	9.6
5	51	e90	e112	109	105	73	33	36	27	11	19	11
6	57	82	e108	e106	97	101	32	39	26	11	14	15
7	82	63	e110	e104	e90	63	39	43	22	12	15	725
8	112	65	e110	103	e85	66	46	31	20	12	14	181
9	88	56	e110	103	e87	61	41	35	17	13	14	467
10	100	63	110	107	e75	58	47	35	21	10	14	83
11	55	71	132	101	e60	50	41	33	18	13	13	82
12	69	102	128	98	e50	48	37	38	19	11	13	107
13	84	89	124	105	e55	47	36	35	18	12	13	82
14	78	84	e128	94	38	63	36	32	18	9.6	13	53
15	109	99	e132	96	36	49	36	29	14	9.5	11	43
16	96	80	114	e98	41	66	65	33	14	11	12	40
17	80	92	115	e102	36	76	51	31	15	11	12	38
18	e80	e96	109	106	40	68	58	29	15	13	8.9	24
19	e88	e97	127	97	46	52	52	28	14	14	11	31
20	90	95	129	106	47	59	53	28	13	16	11	24
21	97	88	143	117	44	59	41	25	15	17	9.8	26
22	e125	103	135	e105	42	55	48	32	15	15	10	18
23	75	88	141	e100	45	48	50	28	15	16	10	25
24	80	92	e146	e90	46	48	48	26	17	18	11	19
25	82	127	151	88	45	74	e46	20	14	221	13	18
26	75	129	150	95	45	61	e50	20	13	70	13	28
27	56	112	160	97	48	50	78	31	12	18	11	23
28	74	113	171	95	53	50	89	27	13	17	11	20
29	86	113	179	93	---	53	73	24	13	14	10	30
30	77	131	178	85	---	53	69	22	13	20	15	98
31	64	---	140	86	---	50	---	24	---	20	14	---
TOTAL	2437	2725	4066	3176	1745	1909	1458	990	517	689.1	394.7	2362.6
MEAN	78.61	90.83	131.2	102.5	62.32	61.58	48.60	31.94	17.23	22.23	12.73	78.75
MAX	125	131	179	133	105	101	89	49	27	221	19	725
MIN	51	56	108	85	36	47	32	20	12	9.5	8.9	9.6
AC-FT	4830	5410	8060	6300	3460	3790	2890	1960	1030	1370	783	4690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-56, 1992-2002, BY WATER YEAR (WY)

	MEAN	91.70	135.8	156.4	195.1	226.3	295.4	337.4	342.2	97.53	70.05	107.5	97.09
MAX	179	237	287	519	869	1232	1312	1300	543	232	522	475	
(WY)	1999	1999	1994	1993	1993	1995	1952	1993	1995	1998	1955	1998	
MIN	22.8	65.2	64.5	102	62.3	61.6	38.3	6.86	0.000	10.1	4.30	0.000	
(WY)	1951	1992	1957	2002	2002	2002	1953	1953	1951	1952	1956	1956	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1951-56, 1992-2002

ANNUAL TOTAL	43183	22469.4											
ANNUAL MEAN	118.3	61.56											
HIGHEST ANNUAL MEAN			180.2										
LOWEST ANNUAL MEAN			472									1993	
HIGHEST DAILY MEAN			61.6									2002	
LOWEST DAILY MEAN	531	Mar 10	725	Sep 7					5490	Aug 25	1955		
ANNUAL SEVEN-DAY MINIMUM	11	Jul 4	8.9	Aug 18					0.00	Apr 17	1951		
ANNUAL RUNOFF (AC-FT)	85650		44570						130500	May 29	1951		
10 PERCENT EXCEEDS	234		113						346				
50 PERCENT EXCEEDS	105		50						104				
90 PERCENT EXCEEDS	30		13						11				

e Estimated

09413900 BEAVER DAM WASH NEAR ENTERPRISE, UT

LOCATION.--Lat 37°28'12", long 114°02'45", in NW¹/₄SW¹/₄NW¹/₄ sec. 24, T. 38 S., R. 20 W., Washington County, Hydrologic Unit 15010010, Bureau of Land Management, on left bank 0.4 mi downstream from Nevada-Utah State line and about 19 mi southwest of Enterprise.

DRAINAGE AREA.--58 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 4,760 ft above NGVD of 1929, from topographic map.

REMARKS.-- Records fair except for daily discharges less than 2.0 ft³/s and estimated daily discharges, which are poor. Some regulation of low flow by Schroeder Reservoir (capacity about 200 acre-ft) 3 miles upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,760 ft³/s, Feb 24, 1998, gage height, 10.16 ft, from floodmarks, from rating curve extended above 70 ft³/s on basis of slope-area measurement at gage height, 9.56 ft; no flow Aug 8, 10, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 30	1145	*4.6	*4.64				

Minimum daily discharge 0.01 ft³/s, Aug 28, 29, 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.83	2.3	3.2	3.2	3.1	3.1	3.0	3.1	1.3	0.28	0.48	0.03
2	0.89	2.2	3.2	3.2	3.1	3.2	2.9	3.1	1.1	0.30	0.50	0.04
3	0.96	2.1	3.2	3.2	3.1	3.2	2.9	3.1	0.71	0.34	0.49	0.06
4	0.99	1.8	3.3	3.2	3.1	3.2	2.9	3.0	0.77	0.36	0.47	0.09
5	1.1	1.7	3.2	3.2	3.1	3.2	3.0	2.4	0.89	0.40	0.40	0.11
6	1.0	2.0	3.0	3.1	3.1	3.2	3.0	2.6	0.96	0.44	0.45	0.18
7	0.69	2.3	3.0	3.2	3.1	3.2	2.7	2.8	1.1	0.37	0.47	0.26
8	0.60	2.4	3.1	3.1	3.1	3.2	2.5	3.0	1.1	0.34	0.49	0.36
9	0.93	2.5	3.2	3.1	3.1	3.1	2.8	3.1	1.1	0.37	0.50	0.35
10	1.1	2.7	3.2	3.3	3.1	3.1	2.9	3.1	0.97	0.39	0.48	0.41
11	1.2	2.8	3.2	3.1	3.1	3.1	3.1	3.3	0.99	0.39	0.30	0.49
12	1.2	2.8	3.1	3.1	3.1	3.0	3.1	3.3	1.0	0.41	0.20	0.62
13	1.4	3.0	3.1	3.1	3.1	3.1	3.0	3.2	1.0	0.40	0.14	0.77
14	1.3	2.9	3.1	3.1	3.1	3.1	2.9	3.1	1.00	0.29	0.11	0.94
15	1.5	2.8	3.2	3.1	3.1	3.1	2.6	2.9	0.89	0.25	0.11	0.98
16	1.5	2.7	3.0	3.1	3.1	3.2	2.4	2.8	0.58	0.31	0.10	0.75
17	1.6	2.7	2.9	3.1	3.1	3.2	2.4	2.8	0.45	0.36	0.09	0.75
18	1.6	2.7	3.0	3.1	3.2	3.2	2.6	2.7	0.49	0.44	0.10	0.83
19	1.6	2.7	3.0	3.1	3.1	3.1	2.9	1.7	0.56	0.52	0.07	0.89
20	1.7	2.8	3.0	3.1	3.1	3.0	3.1	1.6	0.60	0.52	0.09	0.97
21	1.7	2.8	3.1	3.0	3.1	3.0	3.1	2.0	0.61	0.52	0.10	1.0
22	1.3	2.8	3.0	3.1	3.1	3.0	3.1	2.4	0.61	0.50	0.14	1.1
23	1.4	3.3	3.1	3.1	3.1	2.3	3.1	2.6	0.59	0.53	0.16	1.0
24	1.6	3.6	3.1	3.0	3.0	2.0	3.1	2.7	0.55	0.54	0.16	1.1
25	1.7	3.6	3.0	3.1	3.1	2.5	3.0	2.7	0.56	0.53	0.11	1.2
26	1.7	3.2	3.0	3.1	3.0	2.7	3.1	2.3	0.61	0.54	0.06	1.2
27	1.8	3.1	3.0	3.1	3.1	2.8	3.4	2.0	0.61	0.53	0.03	1.2
28	1.8	3.2	3.0	3.3	3.1	2.8	3.6	1.9	0.60	0.38	0.01	1.2
29	1.7	3.2	3.1	3.2	---	2.9	3.3	1.9	0.50	0.29	0.01	0.87
30	1.9	3.3	3.2	2.9	---	2.8	3.1	1.7	0.34	0.32	0.01	0.67
31	2.3	---	3.3	3.0	---	2.8	---	1.6	---	0.40	0.03	---
TOTAL	42.59	82.0	96.1	96.7	86.7	92.4	88.6	80.5	23.14	12.56	6.86	20.42
MEAN	1.374	2.733	3.100	3.119	3.096	2.981	2.953	2.597	0.771	0.405	0.221	0.681
MAX	2.3	3.6	3.3	3.3	3.2	3.2	3.6	3.3	1.3	0.54	0.50	1.2
MIN	0.60	1.7	2.9	2.9	3.0	2.0	2.4	1.6	0.34	0.25	0.01	0.03
AC-FT	84	163	191	192	172	183	176	160	46	25	14	41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

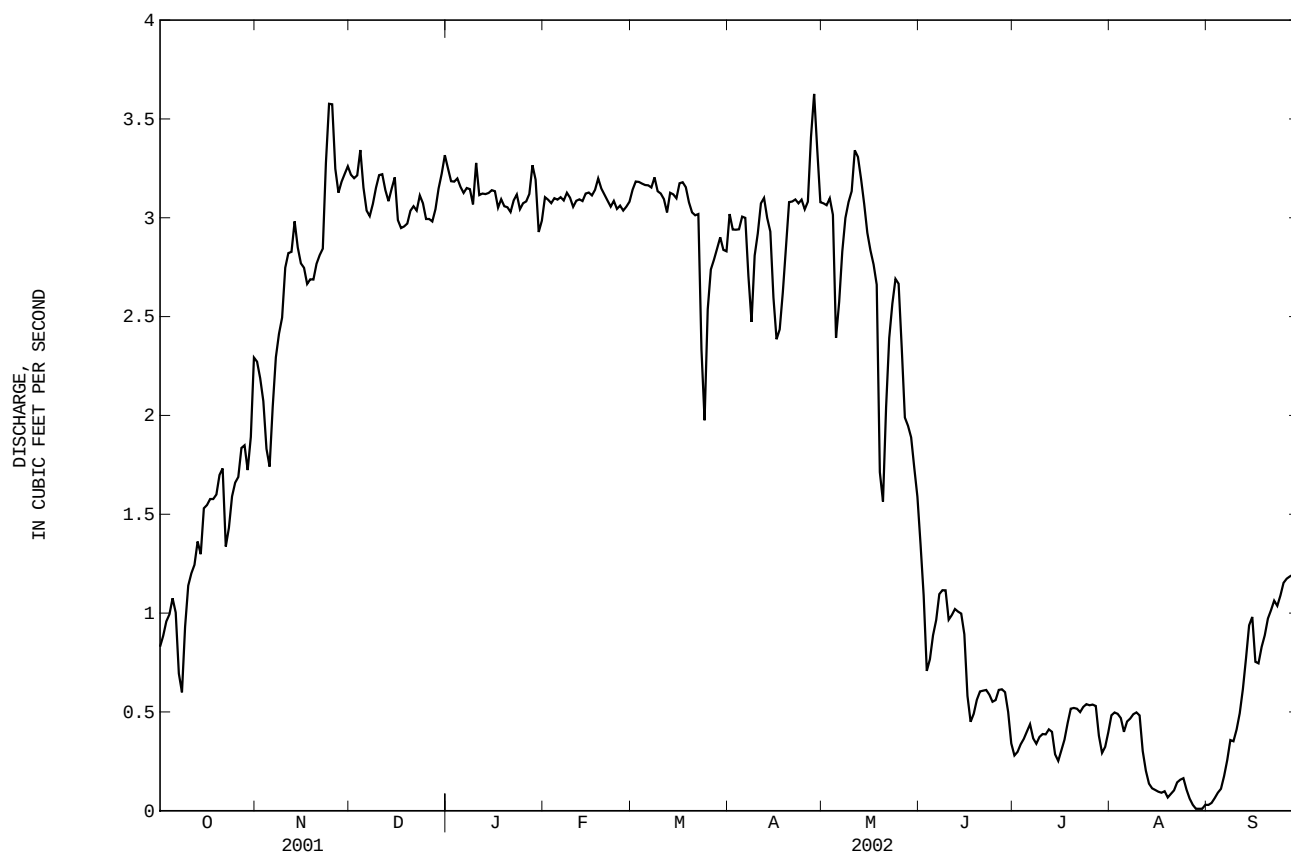
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	2.824	3.741	4.340	11.46	28.41	38.98	18.09	5.455	2.447	1.002	2.298
MAX	7.75	6.66	9.59	55.2	115	128	97.6	14.6	5.44	2.86	14.0
(WY)	2001	2001	1995	1993	1993	1993	1998	1998	1995	1998	2000
MIN	1.37	2.60	2.43	3.12	3.10	2.98	2.95	2.18	0.65	0.15	0.20
(WY)	2002	1997	1992	2002	2002	2002	2002	1996	1996	1997	1996

VIRGIN RIVER BASIN

09413900 BEAVER DAM WASH NEAR ENTERPRISE, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1992 - 2002	
ANNUAL TOTAL	1612.95	728.57	9.967	
ANNUAL MEAN	4.419	1.996	29.0	1993
HIGHEST ANNUAL MEAN			2.00	2002
LOWEST ANNUAL MEAN			1140	Feb 24 1998
HIGHEST DAILY MEAN	117 Mar 10	3.6 Nov 24	0.00 Aug 8 1994	
LOWEST DAILY MEAN	0.23 Sep 13	0.00 Aug 28	0.02 Aug 27 2002	
ANNUAL SEVEN-DAY MINIMUM	0.31 Jul 1	0.02 Aug 27		
ANNUAL RUNOFF (AC-FT)	3200	1450	7220	
10 PERCENT EXCEEDS	6.8	3.2	13	
50 PERCENT EXCEEDS	2.8	2.6	3.2	
90 PERCENT EXCEEDS	0.48	0.34	0.51	

e Estimated



GREAT SALT LAKE BASIN

10010000 GREAT SALT LAKE AT STATE PARK SALT AIR BEACH BOAT HARBOR, UT

LOCATION.--Lat 40°43'53", long 112°12'46", in NE¹/₄SW¹/₄NW¹/₄ sec. 17, T. 1 S., R. 3 W., Salt Lake County, Hydrologic Unit 16020310, at State Park Saltair Beach Boat Harbor on southeast shore of lake, 17.1 mi west of Salt Lake City. (Gage temporarily located 0.4 mi to the southeast, from Apr. 13, 1984 to May 30, 1985, because of problems associated with highwater, then relocated 0.1 mi to the northeast from May 30, 1985 to August 9, 1989 because of highway construction. Gage relocated to boat harbor marina on August 9, 1989).

PERIOD OF RECORD.--September 1875 to December 1899, October 1902 to current year. Records for October 1902 to September 1912 and diagram showing fluctuations of lake from 1851-1950, published in WSP 1314.

REVISED RECORDS.--WSP 1314: 1877. WDR-UT-74-1: 1967-73. WDR-UT-83-1: 1981-82. WDR-UT-95-1: 1984-94. WDR-UT-2001-1: 1984-2000.

GAGE.--Water-stage recorder at Boat Harbor since October 1938. Datum at gage since September 15, 1970 is 4,186.80 ft above NGVD of 1929. October 1938 to April 15, 1967, at datum 4,186.9 ft and April 15, 1967 to September 15, 1970, at datum 4,186.85 ft. Prior to October 1938, staff gages at sites and datums as follows: September 1875 to October 1877 at Black Rock at 4,208.4 ft above NGVD of 1929, November 1877 to November 1879 at Farmington Bay at 4,206.9 ft above NGVD of 1929, November 1879 to April 1881 near Black Rock at 4,203.1 ft above NGVD of 1929, April 1881 to December 1899 at Garfield Landing at 4,198.5 ft above NGVD of 1929, October 1902 to July 1903, at Midlake on Lucin cutoff of Southern Pacific Railroad, 30 mi west of Ogden, at 4,197.9 ft above NGVD of 1929, and July 1903 to October 1938 at Saltair at 4,196.9 ft above NGVD of 1929. Datums since September 15, 1970, from levels run to USGS/National Geodetic Survey Benchmarks C-174 (1970) and E-174 (1970).

REMARKS.--Wind effects may cause substantial changes in hourly elevations, which are shown in the published mean daily elevations after October 1989. Samples for specific gravity and temperature were collected from water surface near the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4,211.60 ft, Jun 3, 1986, Apr 1, 15, 1987; minimum, 4,191.35 ft, Oct 15, Nov 1, 1963. Maximum elevation prior to Jun 3, 1986, 4,211.6 ft in 1873, computed from traditional data by G. K. Gilbert and E. C. LaRue.

Date	Temperature Water (Deg. C)	Specific Gravity (20.0°C)	Percent Salinity
May 14, 2002.....	19.5	1.083	12.2

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4199.1	4198.8	4198.9	4199.2	4199.3	4199.5	4199.6	4199.8	4199.5	4199.0	4198.4	4197.7
2	4199.1	4198.8	4198.9	4199.2	4199.3	4199.4	4199.6	4199.7	4199.5	4199.0	4198.3	4197.7
3	4199.1	4198.8	4199.0	4199.2	4199.3	4199.4	4199.6	4199.7	4199.5	4198.9	4198.2	4197.7
4	4199.1	4198.8	4199.0	4199.2	4199.3	4199.4	4199.6	4199.7	4199.4	4198.9	4198.1	4197.6
5	4199.1	4198.8	4198.9	4199.2	4199.3	4199.4	4199.6	4199.7	4199.4	4198.9	4198.0	4197.6
6	4199.0	4198.8	4199.0	4199.2	4199.3	4199.4	4199.6	4199.7	4199.4	4198.9	4198.0	e4197.5
7	4199.0	4198.9	4199.1	4199.2	4199.3	4199.4	4199.6	4199.9	4199.4	4198.9	4198.1	4197.6
8	4199.0	4198.8	4199.1	4199.2	4199.4	4199.7	4199.6	4199.7	4199.6	4198.9	4198.1	4197.6
9	4199.1	4198.8	4199.1	4199.2	4199.3	4199.4	4199.5	4199.7	4199.5	4198.9	4198.1	4197.6
10	4199.0	4198.8	4199.1	4199.2	4199.3	4199.4	4199.6	4199.7	4199.3	4198.8	4198.0	4197.6
11	4199.1	4198.8	4199.1	4199.2	4199.3	4199.4	4199.5	4199.7	4199.3	4198.8	4198.0	4197.6
12	4199.0	4198.8	4199.1	4199.2	4199.3	4199.4	4199.6	4199.7	4199.3	4198.8	4198.1	4197.6
13	4199.0	4198.8	4199.0	4199.2	4199.3	4199.5	4199.5	4199.6	4199.3	4198.8	4198.0	4197.6
14	4198.9	4198.8	4199.1	4199.2	4199.3	4199.6	4199.6	4199.7	4199.3	4198.8	4198.0	4197.6
15	4198.9	4198.8	4199.2	4199.2	4199.3	4199.5	4199.8	4199.7	4199.3	4198.7	4198.0	4197.6
16	4198.9	4198.8	4199.1	4199.2	4199.3	4199.4	4199.6	4199.6	4199.3	4198.7	4198.0	4197.6
17	4198.9	4198.8	4199.1	4199.2	4199.3	4199.5	4199.6	4199.6	4199.3	4198.7	4198.0	4197.7
18	4198.9	4198.8	4199.1	4199.2	4199.3	4199.5	4199.6	4199.6	4199.3	4198.6	4197.9	4197.7
19	4198.9	4198.8	4199.1	4199.2	4199.3	4199.4	4199.6	4199.5	4199.4	4198.6	4197.9	4197.6
20	4198.9	4198.8	4199.2	4199.2	4199.3	4199.5	4199.7	4199.5	4199.2	4198.6	4197.9	e4197.5
21	4198.9	4198.8	4199.2	4199.2	4199.3	4199.5	4199.6	4199.4	4199.2	4198.6	4197.9	4197.6
22	4198.9	4198.9	4199.1	4199.3	4199.4	4199.5	4199.6	4199.5	4199.2	4198.5	4197.9	4197.6
23	4199.1	4199.0	4199.2	4199.2	4199.4	4199.5	4199.7	4199.5	4199.1	4198.4	4197.9	4197.6
24	4198.9	4198.8	4199.2	4199.2	4199.4	4199.5	4199.6	4199.5	4199.1	4198.5	4197.8	4197.6
25	4198.8	4199.1	4199.1	4199.2	4199.5	4199.5	4199.6	4199.5	4199.1	4198.4	4197.8	e4197.5
26	4198.8	4199.0	4199.1	4199.2	4199.4	4199.5	4199.7	4199.5	4199.1	4198.4	4197.8	4197.6
27	4198.8	4199.0	4199.2	4199.2	4199.4	4199.5	4199.5	4199.5	4199.1	4198.4	4197.8	e4197.5
28	4198.8	4198.9	4199.1	4199.3	4199.5	4199.6	4199.7	4199.5	4199.1	4198.4	4197.8	e4197.5
29	4198.8	4198.9	4199.1	4199.3	---	4199.6	4199.7	4199.5	4199.0	4198.4	4197.7	e4197.5
30	4198.8	4198.9	4199.2	4199.3	---	4199.6	4199.7	4199.5	4199.0	4198.4	4197.7	e4197.5
31	4198.8	---	4199.2	4199.3	---	4199.6	---	4199.5	---	4198.4	4197.7	---
MEAN	4198.9	4198.8	4199.1	4199.2	4199.3	4199.5	4199.6	4199.6	4199.3	4198.7	4198.0	4197.6
MAX	4199.1	4199.1	4199.2	4199.3	4199.5	4199.7	4199.8	4199.9	4199.6	4199.0	4198.4	4197.7
MIN	4198.8	4198.8	4198.9	4199.2	4199.3	4199.4	4199.5	4199.4	4199.0	4198.4	4197.7	4197.5

WTR YR 2002 MEAN 4199.0 MAX 4199.9 MIN 4197.5

e Estimated

GREAT SALT LAKE BASIN

10010100 GREAT SALT LAKE NEAR SALINE, UT

LOCATION.--Lat 41°15'19", long 112°29'46", in NE¹/₄NE¹/₄NW¹/₄ sec. 14, T. 6 N., R. 6 W., Box Elder County, Hydrologic Unit 16020310, 3.4 mi northwest of Saline at the Little Valley boat harbor, 30 mi west of Ogden and 27 mi south of Promontory.

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

REVISED RECORDS.--WDR UT-75-1: 1966-75. WDR UT-83-1: 1966-82. WDR UT-96-1: 1990-95 WDR UT-2001-1: 1966-2000.

GAGE.--Water-stage recorder on pier of boat harbor. Datum of gage since August 1, 1996 is 4,186.95 ft above NGVD of 1929. April 1966 to August 1, 1996 at datum 4,190.05 ft above NGVD of 1929. Both datums from levels run to USGS Benchmarks 72-77 FMK 1966.

REMARKS.--Wind effects may cause substantial changes in hourly elevations, which are shown in the published mean daily elevations after October 1989. Samples for specific gravity and temperature were collected from water surface near the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4,211.20 ft, Apr 7-29, 1987; minimum, 4,192.90 ft, Oct 15, Nov 1, 1966.

Date	Temperature Water (Deg. C)	Specific Gravity (20.0°C)	Percent Salinity
Nov 7, 2001.....	13.0	1.206	27.1
Mar 21, 2002.....	7.0	1.205	27.0
May 9.....	15.5	1.207	27.2
Jun 13.....	23.0	1.210	27.6
Aug 14.....	27.0	1.222	28.8

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4198.7	4198.4	4198.4	4198.7	4198.8	4199.0	4199.0	4199.3	4199.0	4198.6	4197.9	4197.3
2	4198.7	4198.4	4198.4	4198.7	4198.8	4198.8	4199.0	4199.1	4199.0	4198.5	4197.9	4197.3
3	4198.7	4198.4	4198.5	4198.7	4198.8	4198.8	4199.0	4199.2	4199.0	4198.4	4197.8	4197.2
4	4198.7	4198.4	4198.6	4198.7	4198.8	4198.8	4199.0	4199.1	4198.9	4198.4	4197.8	4197.2
5	4198.7	4198.4	4198.5	4198.7	4198.8	4198.8	4199.0	4199.1	4198.9	4198.5	4197.8	4197.2
6	4198.6	4198.4	4198.6	4198.7	4198.8	4198.8	4199.0	4199.1	4198.9	4198.4	4197.8	4197.2
7	4198.6	4198.4	4198.6	4198.7	4198.8	4198.8	4199.0	4199.3	4199.0	4198.4	4197.8	4197.3
8	4198.6	4198.4	4198.5	4198.8	4199.0	4199.0	4199.0	4199.1	4199.1	4198.4	4197.8	4197.3
9	4198.7	4198.4	4198.6	4198.8	4198.9	4198.8	4198.9	4199.0	4198.9	4198.4	4197.8	4197.3
10	4198.6	4198.4	4198.7	4198.8	4198.9	4198.9	4199.0	4199.1	4198.8	4198.4	4197.7	4197.3
11	4198.6	4198.4	4198.6	4198.8	4198.8	4198.8	4199.0	4199.2	4198.8	4198.3	4197.7	4197.2
12	4198.5	4198.4	4198.6	4198.8	4198.9	4198.8	4199.0	4199.0	4198.8	4198.3	4197.7	4197.2
13	4198.6	4198.4	4198.5	4198.8	4198.8	4198.9	4199.0	4199.0	4198.8	4198.3	4197.6	4197.2
14	4198.5	4198.4	4198.6	4198.8	4198.9	4199.0	4199.0	4199.1	4198.8	4198.3	4197.6	4197.2
15	4198.4	4198.4	4198.6	4198.8	4198.9	4198.9	4199.2	4199.1	4198.8	4198.3	e4197.6	4197.2
16	4198.4	4198.4	4198.6	4198.8	4198.9	4198.9	4199.1	4199.1	4198.7	4198.3	4197.6	4197.2
17	4198.5	4198.4	4198.6	4198.8	4198.9	4198.9	4199.0	4199.0	4198.8	4198.2	4197.6	4197.2
18	4198.4	4198.4	4198.6	4198.8	4198.9	4199.0	4199.1	4199.0	4198.8	4198.2	4197.6	4197.3
19	4198.4	4198.4	4198.6	4198.8	4198.9	4198.9	4199.1	4198.9	4198.8	4198.2	4197.6	4197.2
20	4198.4	4198.4	4198.6	4198.8	4198.9	4198.9	4199.1	4199.0	4198.7	4198.2	4197.5	4197.1
21	4198.4	4198.4	4198.7	4198.8	4198.9	4198.9	4199.0	4199.1	4198.7	4198.1	4197.6	4197.2
22	4198.4	4198.5	4198.7	4198.8	4198.9	4198.9	4198.9	4199.2	4198.6	4198.1	4197.5	4197.1
23	e4198.4	4198.5	4198.7	4198.8	4198.9	4199.0	4199.1	4199.0	4198.6	4198.0	4197.5	4197.1
24	e4198.4	4198.3	4198.7	4198.8	4199.1	4199.0	4199.0	4199.0	4198.6	4198.0	4197.4	4197.1
25	4198.4	4198.5	4198.7	4198.8	4199.0	4199.0	4199.0	4198.9	4198.6	4198.0	4197.4	4197.2
26	4198.3	4198.5	4198.7	4198.8	4198.9	4198.9	4199.0	4199.0	4198.6	4198.0	4197.4	4197.1
27	4198.3	4198.5	4198.7	4198.8	4198.9	4199.0	4199.1	4199.0	4198.6	4198.0	4197.4	4197.1
28	4198.3	4198.4	4198.7	4199.0	4199.0	4199.0	4199.1	4199.0	4198.6	4198.0	4197.3	4197.1
29	4198.3	4198.4	4198.7	4198.9	---	4199.0	4199.1	4199.0	4198.5	4198.0	4197.3	4197.1
30	4198.3	4198.5	4198.7	4198.8	---	4199.0	4199.2	4199.0	4198.6	4198.0	4197.3	4197.1
31	4198.5	---	4198.7	4198.8	---	4199.0	---	4199.0	---	4198.0	4197.3	---
MEAN	4198.5	4198.4	4198.6	4198.8	4198.9	4198.9	4199.0	4199.1	4198.8	4198.2	4197.6	4197.2
MAX	4198.7	4198.5	4198.7	4199.0	4199.1	4199.0	4199.2	4199.3	4199.1	4198.6	4197.9	4197.3
MIN	4198.3	4198.3	4198.4	4198.7	4198.8	4198.8	4198.9	4198.9	4198.5	4198.0	4197.3	4197.1

WTR YR 2002 MEAN 4198.5 MAX 4199.3 MIN 4197.1

e Estimated

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE¹/₄NW¹/₄SE¹/₄ sec. 30, T. 3 N., R. 10 E., Summit County, Utah Hydrologic Unit 16010101, on left bank 400 ft downstream from West Fork and 2.8 mi upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi².

PERIOD OF RECORD.--July 1942 to current year.

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

GAGE.--Water-stage recorder. Elevation of gage is 7,965 ft above NGVD of 1929, from river-profile map. Prior to October 1, 1986 at datum 3.0 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated slightly by Whitney Reservoir, total capacity, 4,700 acre-ft since 1966. Three diversions above station for irrigation of about 265 acres above and 2,600 acres below station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,230 ft³/s, Jun 6, 1986, gage height, 4.05 ft, datum then in use; minimum, 6.8 ft³/s, Apr 12, 1984, result of upstream ice jam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 1		*1060	*5.75	No peak greater than base discharge.			

Minimum daily discharge, 23 ft³/s, Aug 19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	55	e42	e28	e30	e26	44	257	830	91	39	27
2	37	45	e42	e28	e29	e26	48	206	724	101	41	27
3	37	42	e41	e29	e28	e27	50	222	578	141	44	27
4	37	41	e41	e29	e28	e27	56	235	476	131	e42	27
5	37	45	e42	e29	e27	e28	61	297	455	126	41	27
6	37	44	e43	e30	e27	e28	64	325	459	128	36	34
7	38	55	e44	e30	e28	e28	65	398	484	137	35	66
8	38	50	e45	e30	e29	e29	71	377	470	120	37	73
9	52	41	e44	e31	e28	e29	75	312	421	111	34	62
10	46	46	e43	e31	e27	e29	88	274	353	109	33	51
11	49	43	e43	e32	e27	e29	80	245	293	105	32	50
12	47	45	e42	e32	e27	e30	83	216	264	99	30	81
13	46	43	e42	e32	e26	e31	91	262	249	97	30	71
14	45	44	e43	e33	e26	e30	118	384	242	95	30	60
15	46	38	e43	e33	e26	e30	155	e455	238	96	29	58
16	43	38	e42	e34	e25	e31	134	494	228	107	28	55
17	45	38	e41	e34	e25	e32	109	458	222	110	27	88
18	44	43	e40	e35	e25	e32	91	614	213	130	27	124
19	41	34	e40	e34	e26	e31	93	734	208	118	23	116
20	42	34	e39	e34	e27	e30	85	e760	199	111	25	111
21	42	43	e39	e33	e26	e30	80	e729	185	100	30	99
22	42	40	e38	e33	e26	e31	80	508	174	94	30	89
23	44	39	e37	e32	e25	e31	95	401	160	94	28	80
24	40	41	e37	e32	e24	e32	109	361	143	89	27	77
25	37	40	e36	e32	e24	e32	126	339	e134	88	25	73
26	41	e40	e36	e31	e24	30	165	345	125	62	25	70
27	41	e40	e34	e31	e25	34	170	386	118	56	25	69
28	42	e42	e31	e30	e25	34	146	471	111	55	27	68
29	41	e42	e29	e30	---	34	180	614	103	51	27	70
30	40	e43	e28	e30	---	36	249	712	95	44	28	76
31	64	---	e28	e30	---	39	---	827	---	41	27	---
TOTAL	1319	1274	1215	972	740	946	3061	13218	8954	3037	962	2006
MEAN	42.55	42.47	39.19	31.35	26.43	30.52	102.0	426.4	298.5	97.97	31.03	66.87
MAX	64	55	45	35	30	39	249	827	830	141	44	124
MIN	37	34	28	28	24	26	44	206	95	41	23	27
AC-FT	2620	2530	2410	1930	1470	1880	6070	26220	17760	6020	1910	3980

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2002, BY WATER YEAR (WY)

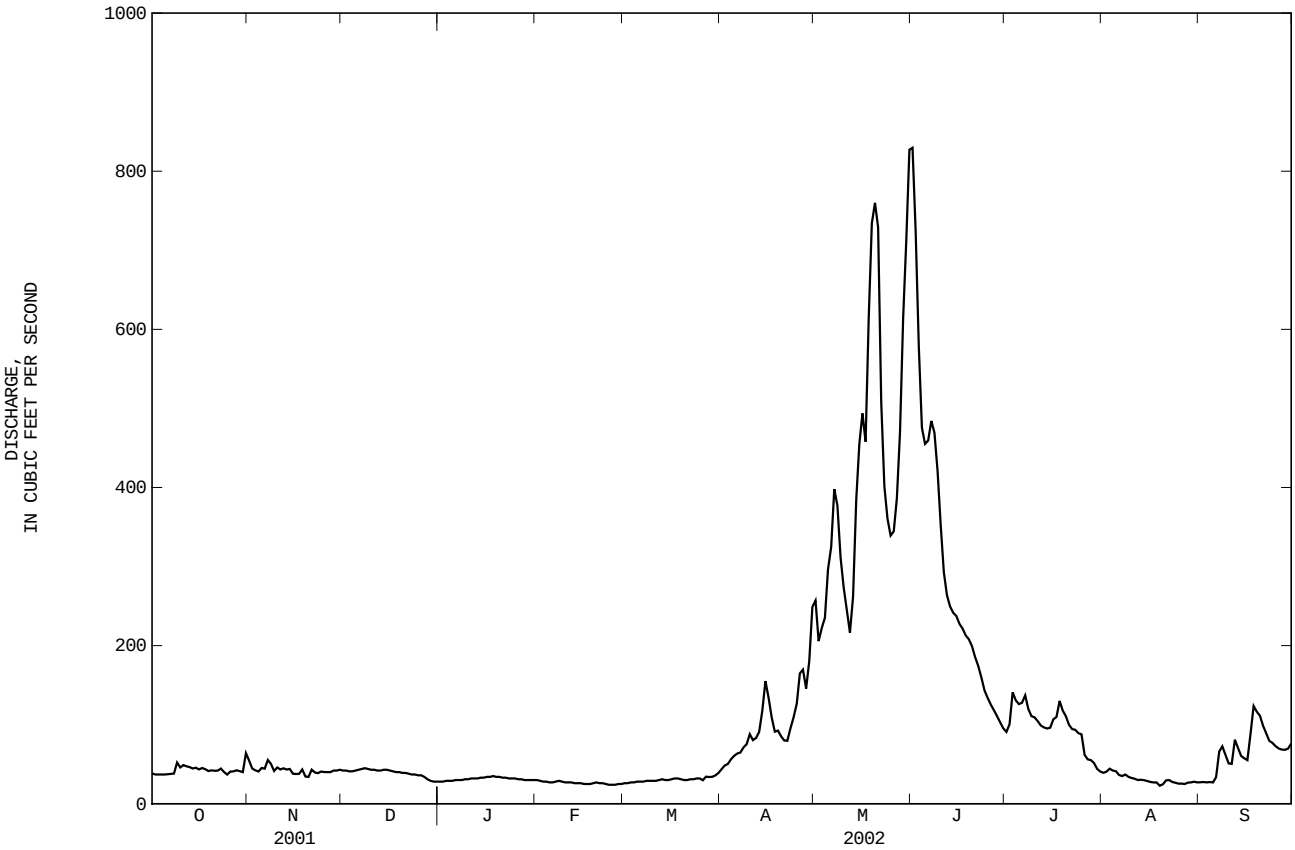
	MEAN	63.22	54.59	46.73	41.99	39.98	43.76	110.7	596.7	850.6	300.7	94.13	73.93
MAX	208	106	94.9	72.4	64.3	69.0	316	1044	1990	1105	244	229	
(WY)	1983	1984	1984	1984	1984	1986	1946	1984	1986	1995	1965	1983	
MIN	30.8	32.5	27.7	29.6	25.3	26.0	37.2	162	204	67.4	31.0	23.9	
(WY)	1959	1955	1960	1991	1964	1964	1944	1977	1992	1961	2002	1956	

BEAR RIVER BASIN

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1943 - 2002	
ANNUAL TOTAL	44043		37704		193.4	
ANNUAL MEAN	120.7		103.3		335	
HIGHEST ANNUAL MEAN					81.5	
LOWEST ANNUAL MEAN					2680	
HIGHEST DAILY MEAN	1500	May 16	830	Jun 1	1986	1977
LOWEST DAILY MEAN	27	Jan 8	23	Aug 19	18	Jan 3 1960
ANNUAL SEVEN-DAY MINIMUM	29	Jan 6	25	Feb 22	21	Dec 28 1959
ANNUAL RUNOFF (AC-FT)	87360		74790		140100	
10 PERCENT EXCEEDS	317		263		600	
50 PERCENT EXCEEDS	44		42		58	
90 PERCENT EXCEEDS	34		27		34	

e Estimated



10016900 BEAR RIVER AT EVANSTON, WY

LOCATION.--Lat 41°16'13", long 110°57'47", in NE¹/₄ NW¹/₄ NW¹/₄ sec.21, T.15 N., R.120 W., Uinta County, Hydrologic Unit 16010101, on left bank 100 ft downstream from bridge on State Highway 89, in the City of Evanston.

DRAINAGE AREA.--433 mi².

PERIOD OF RECORD.--May 1984 to current year (no winter records 1984 to 2001).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,730 ft above NGVD of 1929, from topographic map.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	32	e12	e28	e25	e23	161	314	727	44	12	11
2	13	32	e14	e25	e25	e23	264	237	671	42	12	11
3	12	23	e16	e22	e26	e24	307	228	538	43	12	12
4	14	17	e22	e24	e26	e23	289	212	400	57	13	13
5	14	14	e21	e26	e26	e25	300	273	325	49	12	13
6	12	16	e20	e27	e27	e26	244	310	300	44	9.1	15
7	7.8	21	e20	e26	e27	e28	187	414	295	51	9.8	16
8	7.0	36	e20	e24	e25	e29	162	412	274	46	8.6	18
9	6.9	29	e23	e26	e26	e29	141	322	250	37	7.8	24
10	12	17	e27	e24	e27	e27	183	260	225	36	8.5	17
11	15	20	e32	e23	e28	e30	167	201	202	40	6.4	12
12	9.2	19	e38	e22	e29	e32	134	185	152	37	6.2	18
13	8.8	21	e36	e21	e26	e34	129	164	115	32	14	37
14	8.5	20	e35	e20	e28	e32	144	241	110	30	14	36
15	8.4	21	e37	e20	e29	e32	195	334	90	29	12	26
16	7.5	18	e35	e19	e27	e34	219	403	70	28	15	22
17	7.1	13	e34	e20	e26	e35	191	313	57	27	16	26
18	5.2	14	e33	e21	e25	e36	148	394	51	43	15	64
19	3.6	18	e33	e22	e26	e37	169	555	79	64	16	92
20	3.2	15	e34	e24	e28	38	163	690	77	44	18	74
21	9.5	10	e35	e26	e29	43	133	815	73	35	19	71
22	15	e11	e33	e27	e30	53	156	559	61	25	17	62
23	17	e12	e30	e24	e31	59	175	439	61	22	17	51
24	20	e11	e27	e22	e28	63	154	364	59	23	17	41
25	17	e10	e25	e24	e25	68	152	298	50	22	17	38
26	11	e9.6	e24	e26	e23	71	158	263	51	22	14	36
27	14	e9.0	e25	e28	e20	67	214	279	57	20	11	36
28	16	e8.4	e26	e27	e22	87	179	301	58	18	14	39
29	16	e9.4	e27	e27	---	91	166	412	51	17	13	37
30	16	e10	e28	e26	---	96	231	523	46	19	10	40
31	18	---	e28	e26	---	116	---	673	---	15	9.3	---
TOTAL	356.7	516.4	850	747	740	1411	5615	11388	5575	1061	395.7	1008
MEAN	11.51	17.21	27.42	24.10	26.43	45.52	187.2	367.4	185.8	34.23	12.76	33.60
MAX	20	36	38	28	31	116	307	815	727	64	19	92
MIN	3.2	8.4	12	19	20	23	129	164	46	15	6.2	11
AC-FT	708	1020	1690	1480	1470	2800	11140	22590	11060	2100	785	2000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY)

	MEAN	11.51	17.21	27.42	24.10	26.43	45.52	305.2	754.3	772.1	202.9	65.61	56.75
MAX	11.5	17.2	27.4	24.1	26.4	45.5	602	1291	1890	1890	980	181	225
(WY)	2002	2002	2002	2002	2002	2002	1985	1986	1986	1995	1984	1984	1984
MIN	11.5	17.2	27.4	24.1	26.4	45.5	133	330	121	31.9	12.8	11.8	11.8
(WY)	2002	2002	2002	2002	2002	2002	1995	1990	1992	2000	2002	1988	1988

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 1984 - 2002

ANNUAL TOTAL	29663.8	---
ANNUAL MEAN	81.27	81.27
HIGHEST ANNUAL MEAN	---	81.3
LOWEST ANNUAL MEAN	---	81.3
HIGHEST DAILY MEAN	815	3160
LOWEST DAILY MEAN	3.2	3.2
ANNUAL SEVEN-DAY MINIMUM	6.2	5.3
MAXIMUM PEAK FLOW	963	3680
MAXIMUM PEAK STAGE	3.82	7.35
ANNUAL RUNOFF (AC-FT)	58840	58880
10 PERCENT EXCEEDS	254	254
50 PERCENT EXCEEDS	27	27
90 PERCENT EXCEEDS	12	12

e Estimated.

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NE¹/₄NW¹/₄NW¹/₄ sec. 29, T. 17 N., R. 120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 9.3 mi upstream from Woodruff Narrows Dam and 10 mi southeast of Woodruff.

DRAINAGE AREA.--752 mi².

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

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

GAGE.--Water-stage recorder. Elevation of gage is 6,455 ft above NGVD of 1929, from river-profile map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversion for irrigation of about 43,500 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft³/s, Jun 2, 1983, gage height, 6.17 ft; minimum, no flow several days during Aug, Sep 1988, and Sep 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 782 ft³/s, May 21, gage height, 3.36 ft; no flow on Sep 1, 2, 4, 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	6.4	6.5	e35	e37	e60	e101	207	576	14	1.6	e0.00
2	1.5	5.7	6.5	e36	e36	e64	e103	201	587	12	2.0	e0.00
3	1.4	5.8	7.4	e36	e36	e66	e105	151	489	11	1.6	0.09
4	1.4	6.3	8.8	e36	e37	e68	e107	149	358	9.2	1.7	e0.00
5	1.4	6.4	23	e37	e38	e70	e108	152	259	7.7	1.2	e0.00
6	1.6	6.4	52	e38	e39	e72	e108	195	232	7.6	0.93	0.10
7	1.8	7.1	52	e38	e41	e72	e112	242	222	9.2	0.95	0.16
8	1.9	9.2	39	e37	e43	e74	e115	293	204	7.5	0.78	0.33
9	2.0	7.6	e38	e37	e45	e76	117	245	194	4.0	0.66	0.29
10	2.3	8.4	e38	e38	e47	e74	123	181	189	3.6	0.79	1.3
11	2.4	8.1	e37	e39	e49	e74	154	153	172	7.6	0.72	1.4
12	2.8	8.2	e37	e40	e50	e73	110	126	129	4.8	0.81	2.2
13	3.0	8.1	e37	e40	e52	e70	92	93	105	4.0	1.1	2.3
14	3.1	7.9	e36	e39	e50	e70	89	98	83	5.2	0.89	2.1
15	3.1	7.3	e36	e39	e50	e67	114	175	71	4.3	0.46	1.9
16	3.2	6.6	e36	e38	e49	e65	166	228	54	5.1	0.35	1.7
17	3.4	6.7	e35	e38	e48	e68	148	220	42	5.0	0.24	2.0
18	3.4	6.4	e35	e39	e48	e72	131	197	32	7.6	0.19	2.4
19	3.3	6.2	e35	e40	e48	e73	110	318	29	14	0.45	2.6
20	3.5	5.9	e36	e41	e50	e76	116	462	30	14	0.65	6.3
21	3.6	6.0	e37	e41	e54	e78	100	613	36	17	1.2	5.2
22	4.1	6.6	e38	e41	e57	e82	99	562	38	16	1.1	3.1
23	4.5	8.6	e37	e40	e58	e86	106	391	36	14	1.0	2.7
24	4.6	7.5	e36	e39	e56	e90	95	295	33	10	1.1	2.8
25	5.2	8.1	e35	e37	e56	e93	93	226	33	7.7	1.3	2.9
26	5.9	6.6	e34	e36	e54	e93	92	184	31	5.4	0.77	2.7
27	5.8	5.9	e33	e35	e55	e96	132	179	27	3.6	0.42	2.7
28	5.8	6.2	e32	e34	e58	e96	152	194	24	2.7	0.35	3.1
29	6.6	7.3	e32	e35	---	e98	115	243	20	2.2	0.23	2.8
30	9.0	7.9	e33	e35	---	e98	133	341	17	2.0	0.16	3.4
31	7.0	---	e34	e36	---	e99	---	474	---	1.9	0.11	---
TOTAL	110.0	211.4	1012.2	1170	1341	2413	3446	7788	4352	239.9	25.81	58.57
MEAN	3.548	7.047	32.65	37.74	47.89	77.84	114.9	251.2	145.1	7.739	0.833	1.952
MAX	9.0	9.2	52	41	58	99	166	613	587	17	2.0	6.3
MIN	1.4	5.7	6.5	34	36	60	89	93	17	1.9	0.11	0.00
AC-FT	218	419	2010	2320	2660	4790	6840	15450	8630	476	51	116

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

	MEAN	72.77	72.30	71.61	68.07	83.54	165.1	335.0	798.3	841.1	196.4	49.21	48.43
MAX	437	198	181	147	312	627	671	1957	2564	1191	340	288	
(WY)	1983	1974	1984	1984	1986	1986	1969	1984	1986	1995	1983	1983	
MIN	3.03	6.06	7.21	6.76	13.8	26.8	77.7	104	54.6	4.41	0.68	0.49	
(WY)	1965	1989	1989	1989	1993	1977	1977	1977	1992	2000	2000	1988	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1962 - 2002

ANNUAL TOTAL	34352.45	22167.88	
ANNUAL MEAN	94.12	60.73	
HIGHEST ANNUAL MEAN			233.6
LOWEST ANNUAL MEAN			583
HIGHEST DAILY MEAN	1400	May 17	613
LOWEST DAILY MEAN	0.11	Aug 31	0.00
ANNUAL SEVEN-DAY MINIMUM	0.14	Aug 26	0.04
ANNUAL RUNOFF (AC-FT)	68140		43970
10 PERCENT EXCEEDS	269		159
50 PERCENT EXCEEDS	32		35
90 PERCENT EXCEEDS	1.4		1.3
			8.6

e Estimated

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'20", long 111°00'50", in NE¹/₄NE¹/₄NW¹/₄ sec. 32, T. 18 N., R. 120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 1,100 ft downstream from Woodruff Narrows Dam, 1.6 mi upstream from Salt Creek, 5.4 mi upstream from Wyoming-Utah State line, and 7.7 mi east of Woodruff.

DRAINAGE AREA.--784 mi².

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

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.96 ft above NGVD of 1929 (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to September 26, 1962, at site 175 ft upstream at same datum.

REMARKS.--Records good. Flow regulated by Woodruff Narrows Reservoir (station 10020200) beginning January 1962. Diversions for irrigation of about 43,500 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft³/s, Jun 2, 1983, gage height, 8.26 ft; no flow Jul 4, 5, 1962, Aug 30, 31, Sep 1, 2, 6, 7, 1979, Oct 30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,220 ft³/s, May 29; minimum daily discharge, 3.4 ft³/s, Sep 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	9.8	14	14	15	16	18	19	1150	11	9.6	8.4
2	5.1	9.8	13	14	15	17	18	17	1130	11	9.7	8.4
3	4.9	10	13	14	15	17	19	17	1110	11	9.4	8.3
4	4.6	10	14	14	15	17	19	17	1090	11	9.4	8.4
5	4.4	10	14	14	16	17	20	17	1040	11	9.2	6.1
6	12	10	14	14	15	17	20	17	1000	11	9.3	3.4
7	17	10	14	14	15	17	20	17	963	11	9.1	7.9
8	17	10	14	14	15	16	20	17	917	11	9.2	12
9	17	11	14	14	15	16	20	17	870	11	9.1	12
10	15	11	14	15	15	16	20	17	400	11	9.1	12
11	8.8	11	14	15	15	16	20	17	120	11	9.2	12
12	8.1	11	14	15	15	16	20	17	120	11	9.2	12
13	8.0	11	14	15	15	16	20	18	120	11	9.0	12
14	6.6	11	14	15	15	16	20	18	120	11	9.3	12
15	5.4	11	14	15	15	17	20	18	71	11	8.8	11
16	5.3	12	14	15	15	17	20	18	38	10	8.9	9.9
17	5.3	12	14	15	15	17	20	18	38	11	8.6	9.8
18	5.4	12	14	15	15	17	20	19	38	11	8.7	9.8
19	5.3	12	14	15	15	17	21	19	38	10	8.6	9.9
20	5.4	12	14	15	15	17	21	19	38	11	8.2	9.9
21	5.5	12	14	15	15	17	21	19	37	10	8.1	9.8
22	5.5	12	14	15	15	17	21	19	32	10	8.1	9.6
23	5.3	12	14	15	15	17	21	19	28	9.9	8.1	9.8
24	5.5	12	14	15	16	17	21	19	28	10	7.8	9.8
25	5.6	12	14	15	16	17	21	20	28	9.6	7.8	9.8
26	5.6	13	14	15	16	17	21	20	27	9.7	8.1	10
27	5.6	13	14	15	16	17	22	20	27	9.6	8.2	10
28	7.4	13	14	15	16	17	22	414	27	9.5	8.4	10
29	9.4	13	14	15	---	17	22	1220	27	9.5	8.3	9.9
30	9.5	13	14	15	---	17	22	1200	23	9.4	8.4	10
31	9.8	---	14	15	---	18	---	1170	---	9.6	8.4	---
TOTAL	240.3	341.6	432	456	426	520	610	4493	10695	324.8	271.3	293.9
MEAN	7.752	11.39	13.94	14.71	15.21	16.77	20.33	144.9	356.5	10.48	8.752	9.797
MAX	17	13	14	15	16	18	22	1220	1150	11	9.7	12
MIN	4.4	9.8	13	14	15	16	18	17	23	9.4	7.8	3.4
AC-FT	477	678	857	904	845	1030	1210	8910	21210	644	538	583

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

	MEAN	58.78	54.41	47.31	45.01	47.87	97.07	279.1	775.2	980.7	287.1	78.44	60.71
MAX	425	421	184	153	171	473	891	1828	2437	913	331	278	
(WY)	1983	1983	1983	1985	1971	1972	1985	1984	1983	1975	1983	1983	
MIN	3.89	0.12	4.28	4.37	4.71	4.70	0.34	27.8	356	10.3	3.91	3.65	
(WY)	1990	1981	1978	1978	1978	1978	1977	1977	2002	2002	1979	1979	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1962 - 2002

ANNUAL TOTAL	34883.5	19103.9	
ANNUAL MEAN	95.57	52.34	234.5
HIGHEST ANNUAL MEAN			509
LOWEST ANNUAL MEAN			44.3
HIGHEST DAILY MEAN	1250	1220	3630
LOWEST DAILY MEAN	4.4	3.4	0.00
ANNUAL SEVEN-DAY MINIMUM	5.3	5.4	0.07
ANNUAL RUNOFF (AC-FT)	69190	37890	169900
10 PERCENT EXCEEDS	57	22	799
50 PERCENT EXCEEDS	23	14	41
90 PERCENT EXCEEDS	8.3	8.4	9.5

10023000 BIG CREEK NEAR RANDOLPH, UT

LOCATION.--Lat 41°36'36", long 111°15'12", in NW¹/₄NW¹/₄NE¹/₄ sec. 15, T. 10 W., R. 6 E., Rich County, Hydrologic Unit 16010101, on left bank 2.7 mi downstream from main forks and 5.2 mi southwest of Randolph.

DRAINAGE AREA.--52.4 mi².

PERIOD OF RECORD.--March 1939 to September 1944 (fragmentary), October 1949 to September 1970. October 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,410 ft above NGVD of 1929, from topographic map. March 1939 to September 1944 (fragmentary), at site 0.2 mi downstream at different datum, October 1949 to September 1959 at site 200 ft upstream at different datum, September 1959 to September 1970 at site 300 ft upstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 337 ft³/s, Jul 11, 1957, gage height, 3.75 ft, site and datum then in use; minimum discharge, 0.9 ft³/s, Aug 4, 1961.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 18	1750	70	*5.65				

Minimum daily discharge 2.4 ft³/s, Aug 12.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	4.0	e3.4	e3.4	e3.7	e3.9	5.8	6.9	6.7	3.6	2.8	2.8
2	3.8	e4.1	e3.4	e3.5	e3.7	e3.8	5.7	6.8	6.9	3.5	2.9	2.8
3	3.7	e4.2	e3.4	e3.5	e3.7	e3.7	5.5	6.8	6.7	3.5	3.0	e2.7
4	3.7	e4.3	e3.3	e3.6	e3.6	e3.6	5.3	6.4	6.5	3.5	2.8	e2.9
5	3.8	e4.4	e3.3	e3.6	e3.6	e3.7	5.4	6.3	6.0	3.3	2.6	2.9
6	4.0	e4.3	e3.4	e3.7	e3.7	e3.8	5.3	6.3	5.9	3.6	2.6	3.2
7	4.1	e4.2	e3.4	e3.8	e3.7	e3.8	5.0	6.5	5.8	3.6	2.6	3.5
8	4.1	e4.1	e3.4	e3.8	e3.8	e3.7	4.8	6.5	5.8	3.1	2.5	3.8
9	4.3	e4.1	e3.5	e3.7	e3.8	e3.6	4.9	6.5	5.9	e3.3	2.5	3.6
10	4.3	e4.0	e3.6	e3.7	e3.8	e3.6	5.6	7.1	6.0	e3.1	2.6	3.2
11	4.7	e4.0	e3.5	e3.7	e3.9	e3.7	5.4	8.3	5.8	3.0	2.5	3.5
12	4.7	e4.0	e3.4	e3.8	e3.9	e3.7	5.2	7.1	5.6	2.9	2.4	e3.6
13	4.5	e4.0	e3.4	e3.7	e3.9	e3.8	5.2	6.6	5.4	2.9	2.5	e3.8
14	4.4	e3.9	e3.4	e3.7	e4.0	e3.8	5.4	6.6	5.2	e2.8	2.6	e3.8
15	4.5	e3.8	e3.5	e3.8	e4.0	e3.8	6.0	6.5	4.9	3.3	e2.7	e3.7
16	4.5	e3.7	e3.6	e3.8	e3.9	e3.9	5.8	6.4	4.9	3.7	e2.8	e3.6
17	4.5	e3.7	e3.7	e3.9	e3.9	e3.9	5.5	6.4	4.7	4.0	e2.9	e3.7
18	4.4	e3.6	e3.6	e3.9	e3.8	e3.9	5.4	6.4	4.7	e5.5	e3.0	e3.8
19	4.3	e3.6	e3.6	e3.9	e3.9	e4.0	5.5	6.4	4.6	e4.7	e3.0	e4.0
20	4.2	e3.6	e3.5	e4.0	e4.0	e4.0	6.5	6.6	4.5	e4.3	2.9	4.1
21	4.1	e3.6	e3.5	e4.1	e4.0	e4.1	5.3	7.1	4.4	e4.0	3.2	3.9
22	4.1	e3.5	e3.5	e4.2	e4.1	e4.2	4.9	7.7	4.7	e3.8	3.1	3.9
23	4.9	e3.6	e3.6	e4.2	e4.1	e4.3	4.8	6.8	4.4	3.7	e3.0	4.0
24	4.3	e3.5	e3.7	e4.1	e4.2	e4.4	4.7	6.3	4.1	3.3	e3.0	3.9
25	5.1	e3.5	e3.8	e4.0	e4.3	e4.5	5.0	6.0	e4.1	3.5	e2.9	3.8
26	4.2	e3.6	e3.7	e3.9	e4.2	e4.6	5.8	5.9	4.2	4.2	e2.9	3.8
27	4.0	e3.6	e3.7	e3.8	e4.1	6.0	7.1	6.0	4.2	3.3	2.9	3.7
28	3.8	e3.5	e3.6	e3.8	e4.0	5.7	7.1	5.9	3.8	3.1	3.0	3.7
29	3.7	e3.5	e3.5	e3.8	---	5.5	6.5	e6.2	3.7	e3.2	2.9	3.8
30	3.7	e3.5	e3.5	e3.8	---	5.4	6.5	e6.6	3.7	e2.9	2.8	5.0
31	5.1	---	e3.4	e3.8	---	5.7	---	6.6	---	e2.8	2.8	---
TOTAL	131.3	115.0	108.8	118.0	109.3	130.1	166.9	204.5	153.8	109.0	86.7	108.5
MEAN	4.235	3.833	3.510	3.806	3.904	4.197	5.563	6.597	5.127	3.516	2.797	3.617
MAX	5.1	4.4	3.8	4.2	4.3	6.0	7.1	8.3	6.9	5.5	3.2	5.0
MIN	3.7	3.5	3.3	3.4	3.6	3.6	4.7	5.9	3.7	2.8	2.4	2.7
AC-FT	260	228	216	234	217	258	331	406	305	216	172	215

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950-70, 1987-2002, BY WATER YEAR (WY)

	12.41	11.41	10.28	9.463	9.311	10.50	15.60	31.41	22.41	16.58	13.93	12.72
MEAN	12.41	11.41	10.28	9.463	9.311	10.50	15.60	31.41	22.41	16.58	13.93	12.72
MAX	26.7	25.9	23.7	23.4	22.7	25.4	42.3	95.4	62.2	40.3	32.8	29.2
(WY)	2000	1987	1987	1987	1999	1999	1951	1952	1952	1950	1999	1999
MIN	2.14	2.84	2.18	2.17	2.63	2.65	3.56	2.85	1.86	1.48	1.29	1.80
(WY)	1993	1993	1991	1991	1991	1991	1991	1992	1992	1961	1992	1992

10023000 BIG CREEK NEAR RANDOLPH, UT--Continued

SUMMARY STATISTICS

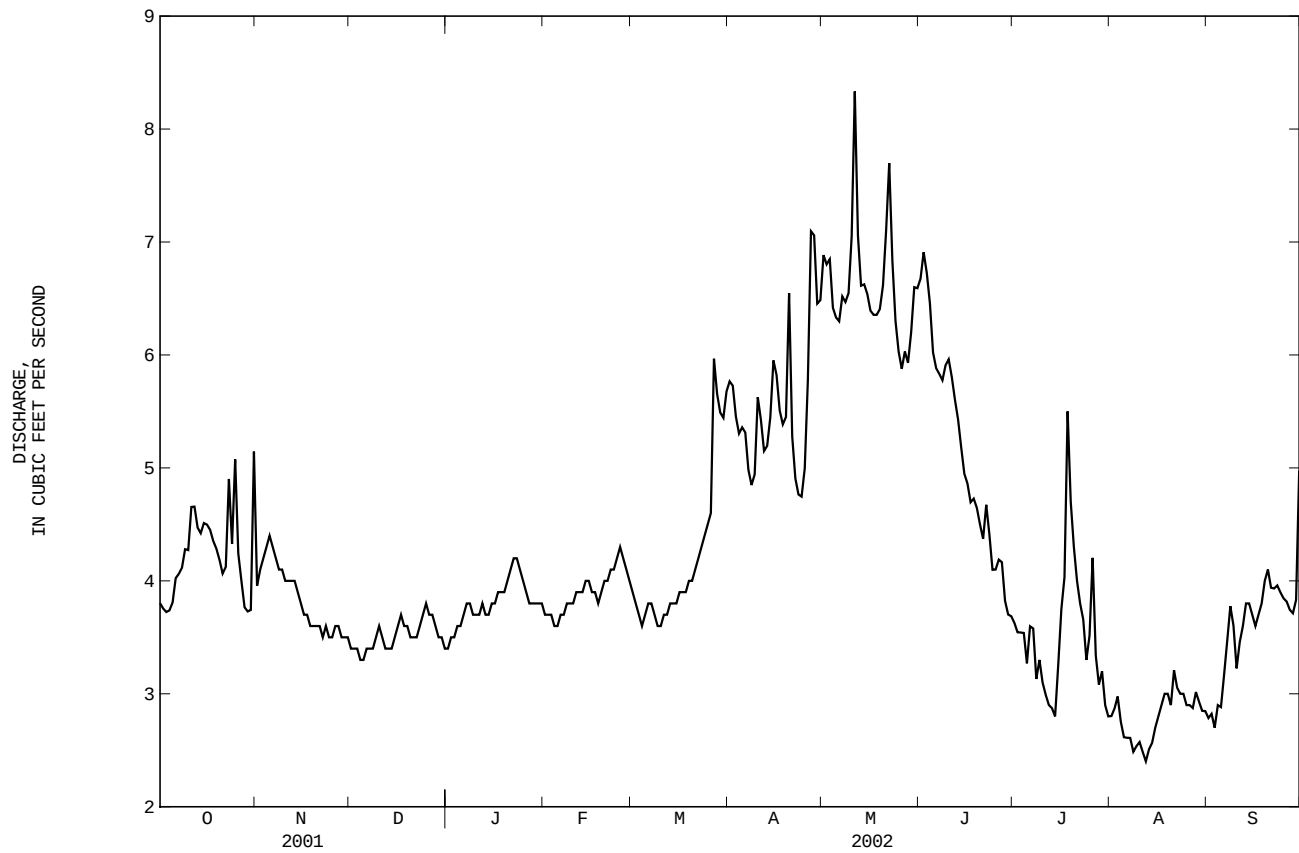
FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1950-70, 1987-2002

ANNUAL TOTAL	2065.8	1541.9		
ANNUAL MEAN	5.660	4.224	14.70	
HIGHEST ANNUAL MEAN			32.1	1952
LOWEST ANNUAL MEAN			3.24	1992
HIGHEST DAILY MEAN	11	8.3	140	May 18 1950
LOWEST DAILY MEAN	3.1	2.4	1.0	Aug 5 1992
ANNUAL SEVEN-DAY MINIMUM	3.4	2.5	1.1	Aug 8 1992
ANNUAL RUNOFF (AC-FT)	4100	3060	10650	
10 PERCENT EXCEEDS	9.1	6.1	29	
50 PERCENT EXCEEDS	4.7	3.8	11	
90 PERCENT EXCEEDS	3.6	3.0	3.9	

e Estimated



BEAR RIVER BASIN

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SW¹/₄SE¹/₄SE¹/₄ sec. 25, T. 23 N., R. 120 W., Lincoln County, Hydrologic Unit 16010102, 800 ft downstream from Pixley Dam, 11 mi south of Cokeville, and 17.5 mi downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi².

PERIOD OF RECORD.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1958 to current year (seasonal only). Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder. Elevation of gage is 6,185 ft above NGVD of 1929, from river-profile map. October 31, 1941 to November 30, 1943, at site 200 ft downstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,300 ft³/s, Mar 25, 1956; minimum daily discharge, 0.08 ft³/s, Sep 7, 2002.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	93	1.5	1.3	0.57	0.86	0.11
2	---	---	---	---	---	---	59	1.2	1.2	0.63	0.78	0.15
3	---	---	---	---	---	---	35	1.9	1.3	0.86	0.79	0.21
4	---	---	---	---	---	---	38	1.7	1.1	0.76	0.72	0.18
5	---	---	---	---	---	---	38	1.6	0.97	0.89	0.67	0.12
6	---	---	---	---	---	---	37	1.4	1.0	1.0	0.64	0.11
7	---	---	---	---	---	---	36	1.6	0.92	1.2	0.62	0.08
8	---	---	---	---	---	---	27	1.5	1.1	1.1	0.60	0.09
9	---	---	---	---	---	---	14	1.5	1.3	1.3	0.66	0.10
10	---	---	---	---	---	---	16	2.0	1.3	1.5	0.72	0.25
11	---	---	---	---	---	---	16	2.3	1.3	1.8	0.63	0.26
12	---	---	---	---	---	---	14	2.1	1.3	1.7	0.69	0.24
13	---	---	---	---	---	---	12	2.3	1.5	1.7	0.74	0.19
14	---	---	---	---	---	---	8.9	2.3	1.5	1.5	0.85	0.22
15	---	---	---	---	---	---	9.0	2.3	1.4	1.3	0.86	0.21
16	---	---	---	---	---	---	8.2	2.3	1.2	0.97	0.89	0.24
17	---	---	---	---	---	---	8.5	2.2	0.96	1.00	0.92	0.16
18	---	---	---	---	---	---	8.9	2.2	0.67	1.2	1.0	0.15
19	---	---	---	---	---	---	10	2.0	0.69	1.3	1.0	0.14
20	---	---	---	---	---	---	11	1.8	0.86	1.5	0.98	0.15
21	---	---	---	---	---	---	11	1.7	0.99	1.6	0.87	0.16
22	---	---	---	---	---	---	11	0.89	1.1	1.9	0.94	0.16
23	---	---	---	---	---	---	9.6	1.8	1.1	1.5	1.1	0.19
24	---	---	---	---	---	---	8.2	1.6	0.96	1.5	0.73	0.15
25	---	---	---	---	---	---	8.0	1.6	0.96	1.5	0.65	0.29
26	---	---	---	---	---	---	6.0	1.7	0.98	1.2	0.55	0.41
27	---	---	---	---	---	---	1.6	1.9	0.84	1.0	0.46	0.44
28	---	---	---	---	---	---	1.4	1.9	0.67	0.99	0.49	0.41
29	---	---	---	---	---	---	1.3	2.0	0.56	0.95	0.38	0.26
30	---	---	---	---	---	---	0.98	1.9	0.58	0.78	0.30	0.24
31	---	---	---	---	---	---	---	1.7	---	0.80	0.21	---
TOTAL	---	---	---	---	---	---	558.58	56.39	31.61	37.50	22.30	6.07
MEAN	---	---	---	---	---	---	18.62	1.819	1.054	1.210	0.719	0.202
MAX	---	---	---	---	---	---	93	2.3	1.5	1.9	1.1	0.44
MIN	---	---	---	---	---	---	0.98	0.89	0.56	0.57	0.21	0.08
AC-FT	---	---	---	---	---	---	1110	112	63	74	44	12

e Estimated

10032000 SMITHS FORK NEAR BORDER, WY

LOCATION.--Lat 42°17'36", long 110°52'18", in NE¹/₄SW¹/₄ sec. 28, T. 27 N., R. 118 W., Lincoln County, Hydrologic Unit 16010102, on left bank 4.9 mi upstream from Howland Creek, 5.6 mi downstream from Hobbie Creek, and 12.4 mi northeast of Border.

DRAINAGE AREA.--165 mi².

PERIOD OF RECORD.--May 1942 to current year.

REVISED RECORDS.--WSP 1734: 1952(M).

GAGE.--Water-stage recorder. Elevation of gage is 6,720 ft above NGVD of 1929, from topographic map. Prior to October 16, 1945, at site 1.2 mi downstream at different datum. October 16, 1945 to November 1986 at site 0.4 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. One diversion for irrigation of about 200 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s, Jun 4, 1986, gage height, 5.66 ft; minimum, 21 ft³/s, Mar 29, 1975, Jan 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 485 ft³/s, Jun 1, gage height, 2.39 ft; minimum daily discharge, 40 ft³/s, many days in Dec thru Mar.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e62	69	e50	e40	e40	e42	50	167	472	162	110	72
2	e60	62	e48	e41	e40	e42	57	163	462	160	113	71
3	e58	60	e45	e42	e40	e41	56	157	430	158	112	71
4	e60	59	e43	e42	e40	e42	57	161	400	155	108	71
5	e62	60	e41	e42	e40	e41	63	173	376	e150	106	70
6	e62	60	e40	e41	e40	e41	73	181	371	144	104	77
7	e60	67	e40	e41	e42	e41	79	213	391	142	107	84
8	e59	67	e40	e42	e42	e40	83	202	394	136	99	100
9	e58	62	e40	e43	e42	e40	85	187	360	133	93	83
10	e60	60	e40	e45	e42	e41	93	179	327	135	95	76
11	e62	62	e40	e45	e43	40	91	181	298	133	91	74
12	e64	62	e40	e45	e43	43	86	179	282	130	91	75
13	e62	60	e40	e44	e45	42	91	169	273	126	96	73
14	e60	61	e40	e44	e44	44	112	180	269	124	93	72
15	e60	60	e40	e44	e44	42	180	208	270	125	101	71
16	e60	59	e40	e43	e43	42	210	225	269	134	93	70
17	58	59	e40	e43	e40	42	171	242	264	149	89	75
18	58	53	e42	e40	e42	40	151	265	256	150	92	81
19	57	49	e45	e40	e41	46	145	305	239	143	93	74
20	56	48	e42	e40	e41	43	141	344	228	134	96	72
21	55	49	e41	e43	e41	41	133	368	220	122	87	69
22	54	55	e40	e44	e41	42	128	334	219	118	80	68
23	59	52	e40	e42	e41	43	130	290	210	119	79	68
24	59	52	e42	e45	41	42	129	275	200	131	79	67
25	53	52	e45	e44	41	42	136	248	192	124	77	67
26	54	55	e42	e43	e41	42	139	236	187	140	76	68
27	56	56	e41	e42	e41	46	145	238	182	130	76	68
28	54	e55	e40	e41	e41	43	145	253	174	134	76	68
29	53	e53	e41	e40	---	43	139	300	169	111	75	68
30	54	e50	e40	e42	---	45	160	362	164	107	74	75
31	63	---	e40	e42	---	46	---	436	---	111	73	---
TOTAL	1812	1728	1288	1315	1162	1310	3458	7421	8548	4170	2834	2198
MEAN	58.45	57.60	41.55	42.42	41.50	42.26	115.3	239.4	284.9	134.5	91.42	73.27
MAX	64	69	50	45	45	46	210	436	472	162	113	100
MIN	53	48	40	40	40	40	50	157	164	107	73	67
AC-FT	3590	3430	2550	2610	2300	2600	6860	14720	16950	8270	5620	4360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2002, BY WATER YEAR (WY)

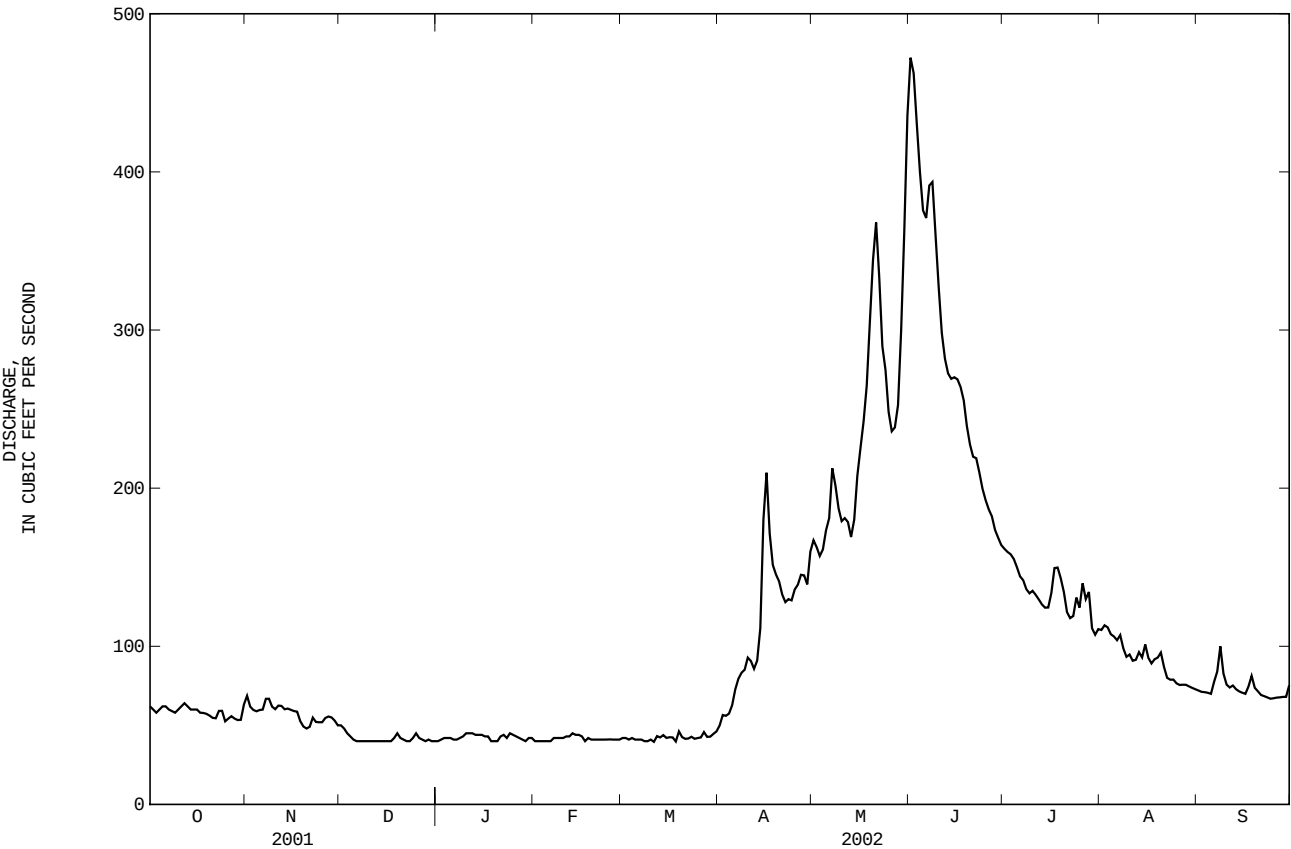
	MEAN	90.95	78.31	69.24	63.63	61.14	62.75	159.2	538.9	626.8	293.7	152.0	108.3
MAX	156	113	88.4	85.0	82.8	99.4	385	1072	1377	602	242	166	
(WY)	1987	1986	1983	1983	1984	1986	1946	1997	1986	1975	1983	1986	
MIN	51.0	50.7	41.5	40.1	38.1	39.5	58.6	99.1	96.2	61.4	55.1	52.1	
(WY)	1978	1978	2002	1988	1988	1988	1975	1977	1977	1977	1977	1977	

BEAR RIVER BASIN

10032000 SMITHS FORK NEAR BORDER, WY--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1943 - 2002	
ANNUAL TOTAL	34497		37244		192.5	
ANNUAL MEAN	94.51		102.0		324	
HIGHEST ANNUAL MEAN					71.1	
LOWEST ANNUAL MEAN					2000	
HIGHEST DAILY MEAN	403	May 17	472	Jun 1	2000	Jun 4 1986
LOWEST DAILY MEAN	40	Dec 6	40	Dec 6	32	Dec 6 1993
ANNUAL SEVEN-DAY MINIMUM	40	Dec 6	40	Dec 6	35	Dec 1 1993
ANNUAL RUNOFF (AC-FT)	68420		73870		139500	
10 PERCENT EXCEEDS	200		222		512	
50 PERCENT EXCEEDS	65		63		90	
90 PERCENT EXCEEDS	49		41		58	

e Estimated



10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

LOCATION.--Lat 42°07'36", long 110°58'21", in NW¹/₄SE¹/₄NE¹/₄ sec. 28, T. 25 N., R. 119 W., Lincoln County, Hydrologic Unit 16010102, on left bank 1.1 mi upstream from Wyman Dam, 2.8 mi northwest of Cokeville, and 3.8 mi downstream from Smiths Fork.

DRAINAGE AREA.--2,447 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1954 to current year (October 1996 to September 1998 seasonal).

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

GAGE.--Water-stage recorder. Elevation of gage is 6,140 ft above NGVD of 1929, from river-profile map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,620 ft³/s, Jun 7, 1983, gage height, 8.75 ft; minimum, 31 ft³/s, Oct 4, 5, 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 405 ft³/s, Jun 3, gage height, 3.53 ft; minimum daily discharge, 50 ft³/s, Oct 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	89	e110	e97	e76	e92	214	138	370	139	113	64
2	58	79	e114	e99	e76	e96	252	148	386	151	112	63
3	58	76	e123	e101	e77	e98	213	141	384	149	116	63
4	57	76	e120	e98	e77	e96	188	146	352	156	114	63
5	50	77	e125	e100	e79	e94	195	149	333	150	109	62
6	57	80	e113	e104	e81	e92	209	154	316	142	104	68
7	58	85	e107	e102	e83	e92	209	186	321	142	102	86
8	57	138	e98	e98	e86	e92	208	196	332	146	100	103
9	56	102	e90	e95	e88	e94	196	184	326	133	108	104
10	56	114	e88	e92	e89	e96	186	175	309	138	109	82
11	57	98	e87	e90	e88	e100	178	181	293	135	105	75
12	63	101	e88	e88	e85	e110	149	180	266	132	100	73
13	63	101	e88	e87	e84	118	122	178	244	127	93	68
14	66	114	e91	e86	e85	160	121	179	237	124	92	67
15	68	108	e92	e87	e85	135	161	209	227	122	89	66
16	67	110	e93	e88	e84	127	198	228	225	123	88	65
17	67	110	e94	e90	e85	118	162	229	222	139	87	70
18	68	106	e93	e92	e85	128	142	239	215	135	86	84
19	67	102	e91	e94	e86	131	125	272	192	135	85	84
20	59	100	e89	e100	e90	e133	121	316	178	131	85	80
21	57	100	e86	e102	e93	e137	129	344	161	127	87	78
22	58	111	e85	e100	e90	141	119	360	165	119	87	78
23	66	113	e84	e98	e89	148	102	312	166	118	85	80
24	70	104	e86	e103	e92	160	98	288	154	115	85	80
25	66	103	e90	e98	e94	176	107	263	138	126	86	75
26	65	93	e94	e102	e91	184	115	231	133	152	85	70
27	70	e100	e98	e98	e88	201	127	218	142	133	78	68
28	72	e108	e100	e92	e88	212	124	219	151	127	75	69
29	70	e114	e97	e86	---	208	116	240	148	120	72	67
30	71	e112	e96	e80	---	196	119	273	142	116	69	76
31	89	---	e96	e77	---	184	---	325	---	113	66	---
TOTAL	1974	3024	3006	2924	2394	4149	4705	6901	7228	4115	2872	2231
MEAN	63.68	100.8	96.97	94.32	85.50	133.8	156.8	222.6	240.9	132.7	92.65	74.37
MAX	89	138	125	104	94	212	252	360	386	156	116	104
MIN	50	76	84	77	76	92	98	138	133	113	66	62
AC-FT	3920	6000	5960	5800	4750	8230	9330	13690	14340	8160	5700	4430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2002, BY WATER YEAR (WY)

	MEAN	222.3	231.2	202.7	184.4	208.9	363.3	674.8	973.6	1213	576.0	237.0	201.8
MAX	755	692	536	344	429	1159	1945	2794	3712	1556	707	658	
(WY)	1983	1983	1983	1984	1986	1986	1985	1984	1983	1983	1983	1983	1983
MIN	55.6	83.1	96.5	86.2	82.4	116	69.2	115	96.7	71.4	80.1	55.9	
(WY)	1978	1978	1978	1993	1993	1988	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1955 - 2002

ANNUAL TOTAL	52728	45523	
ANNUAL MEAN	144.5	124.7	438.9
HIGHEST ANNUAL MEAN			1049
LOWEST ANNUAL MEAN			112
HIGHEST DAILY MEAN	679	Mar 27	5400
LOWEST DAILY MEAN	50	Oct 5	31
ANNUAL SEVEN-DAY MINIMUM	56	Oct 4	36
ANNUAL RUNOFF (AC-FT)	104600	90290	318000
10 PERCENT EXCEEDS	234	213	1070
50 PERCENT EXCEEDS	130	101	223
90 PERCENT EXCEEDS	70	68	110

e Estimated

BEAR RIVER BASIN

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY--Continued
(National Water-Quality Assessment Program Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 29, 1998 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 13, 1998 to September 30, 2001.

INSTRUMENTATION.--Temperature data logger until removed September 30, 2001.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 23.3°C, Jul 4, 5, 6, 2001; minimum, 0.0°C, on many days during the winter period.

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

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CAC03 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HC03 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS C03 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT 11...	1540	53	603	109	10.8	8.4	505	4.5	5.7	178	217	--	14.9
NOV 16...	1040	110	615	110	11.9	8.3	591	.0	3.3	219	261	3	25.9
DEC 18...	1620	93	614	129	15.2	8.0	648	-1.0	.1	235	287	--	28.3
JAN 15...	1430	87	608	105	12.2	8.1	637	-5.0	.3	227	277	--	23.8
MAR 25...	1430	155	611	120	12.7	8.1	531	3.0	3.6	195	238	--	21.9
MAY 23...	0810	320	610	92	9.3	8.2	417	2.0	5.6	163	198	--	8.69
JUL 24...	1200	110	617	156	11.7	8.4	455	29.0	19.2	149	173	4	10.1
SEP 12...	1130	75	614	115	9.7	8.3	450	16.5	13.4	157	191	--	9.22

Date	SULFATE DIS-SOLVED (MG/L AS S04) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+N03 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT 11...	69.3	<.04	.16	E.04	--	<.008	<.02	.018	--	1.3	9.0
NOV 16...	69.0	<.04	.28	.05	.33	<.008	<.02	.034	--	.0	.0
DEC 18...	79.9	<.04	.15	.13	.29	<.008	<.02	.021	216	3.3	13
JAN 15...	76.1	E.03	.16	.15	.31	<.008	<.02	.018	6	23.3	99
MAR 25...	65.8	E.03	.34	.09	.43	<.008	<.02	.042	--	8.0	19
MAY 23...	43.0	<.04	.48	.08	.56	<.008	E.01	.167	70	83.8	97
JUL 24...	56.4	<.04	.19	.05	.24	<.008	<.02	.024	--	2.1	7.0
SEP 12...	58.3	<.04	.17	E.03	--	<.008	<.02	.014	71	6.1	30

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M (00573)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS) (70950)	PHEO-PHYTIN A, PERI-PHYTON (MG/M2) (62359)
AUG 07...	1430	99	11.3	428	19.2	844	950	1102	180	51

E Estimated value.

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

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE¹/₄NE¹/₄NE¹/₄ sec. 15, T. 14 S., R. 46 E., Bear Lake County, Idaho, Hydrologic Unit 16010102, on left bank 0.2 mi west of Wyoming-Idaho State line, 0.5 mi west of Border, and 2.1 mi upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi².

PERIOD OF RECORD.--October 1937 to September 1996, October 1996 to September 2000 (seasonal), October 2000 to September 2001.

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

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft above NGVD of 1929, unadjusted.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft³/s, Jun 7, 1983, gage height, 9.69 ft; minimum, 24 ft³/s, Apr 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 342 ft³/s, Jun 3, gage height, 2.39 ft; minimum discharge, 28 ft³/s, Sep 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	e40	e105	e98	e76	e94	183	121	304	103	75	37
2	46	38	e110	e100	e76	e96	234	107	331	102	74	36
3	43	36	e123	e102	e77	e98	215	104	336	108	75	34
4	44	35	e121	e100	e79	e96	170	103	311	113	77	29
5	43	36	e120	e103	e81	e95	160	102	305	122	73	30
6	46	37	e116	e104	e82	e93	137	109	283	139	69	e31
7	52	40	e105	e103	e84	e93	141	120	279	136	65	e37
8	51	53	e98	e100	e86	e94	141	139	292	127	61	e44
9	51	62	e90	e95	e89	e96	141	139	294	89	61	e54
10	50	59	e89	e93	e90	e100	128	134	278	80	63	54
11	53	87	e88	e90	e87	e105	129	138	266	84	62	47
12	54	80	e90	e88	e86	e115	112	143	246	85	59	45
13	58	82	e91	e87	e86	e130	88	137	220	85	57	43
14	59	86	e92	e87	e86	e150	81	138	206	82	56	40
15	57	86	e93	e89	e86	e138	94	151	201	80	e55	38
16	40	85	e94	e90	e86	e127	140	178	192	79	e47	37
17	39	85	e94	e92	e86	e118	137	183	190	86	42	39
18	37	85	e94	e95	e87	e115	125	186	184	97	42	41
19	37	82	e91	e97	e87	e120	114	206	169	99	43	42
20	37	81	e88	e100	e90	e125	111	243	146	95	e42	40
21	35	83	e86	e102	e94	e135	116	281	131	93	43	38
22	36	88	e85	e100	e92	e145	117	321	125	91	42	37
23	38	93	e86	e100	e91	e150	108	300	129	88	42	38
24	35	89	e88	e102	e94	e160	94	268	124	88	42	e37
25	35	94	e92	e100	e93	e170	98	252	113	90	42	37
26	34	85	e95	e102	e91	e200	105	217	105	110	42	36
27	35	105	e98	e94	e89	e205	119	191	103	109	42	36
28	37	99	e100	e85	e90	e200	126	187	114	86	40	35
29	37	e118	e97	e80	---	182	119	195	108	82	39	34
30	37	e110	e96	e77	---	178	112	219	106	79	38	35
31	41	---	e97	e76	---	165	---	254	---	77	37	---
TOTAL	1347	2239	3012	2931	2421	4088	3895	5566	6191	2984	1647	1161
MEAN	43.45	74.63	97.16	94.55	86.46	131.9	129.8	179.5	206.4	96.26	53.13	38.70
MAX	59	118	123	104	94	205	234	321	336	139	77	54
MIN	34	35	85	76	76	93	81	102	103	77	37	29
AC-FT	2670	4440	5970	5810	4800	8110	7730	11040	12280	5920	3270	2300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2002, BY WATER YEAR (WY)

	210.2	225.8	197.2	182.3	207.8	379.9	744.1	1017	1164	531.7	226.1	179.3
MAX	751	693	563	381	479	1294	1979	3158	3829	1670	752	671
(WY)	1983	1983	1983	1985	1986	1986	1985	1952	1983	1983	1983	1983
MIN	43.5	74.6	97.2	77.6	75.2	105	71.2	74.4	62.2	54.2	42.3	38.5
(WY)	2002	2002	2002	1993	1993	1988	1977	1977	1977	1977	1940	1940

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1938 - 2002

ANNUAL TOTAL	46258	37482	
ANNUAL MEAN	126.7	102.7	428.1
HIGHEST ANNUAL MEAN			1068
LOWEST ANNUAL MEAN			103
HIGHEST DAILY MEAN	646	336	4840
LOWEST DAILY MEAN	34	29	25
ANNUAL SEVEN-DAY MINIMUM	35	33	29
ANNUAL RUNOFF (AC-FT)	91750	74350	310100
10 PERCENT EXCEEDS	223	185	1100
50 PERCENT EXCEEDS	119	92	220
90 PERCENT EXCEEDS	45	38	107

e Estimated

10046000 RAINBOW INLET CANAL NEAR DINGLE, ID

LOCATION.--Lat 42°13'48", long 111°17'43", in NW¹/₄SW¹/₄SE¹/₄ sec. 3, T. 14 S., R. 44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 1.5 mi west of Dingle and 1.8 mi downstream from headworks at Stewart Dam.

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

GAGE.--Water-stage recorder. Elevation of gage datum is 5,922.0 ft above NGVD of 1929, (by topographic survey). Prior to October 1, 1923, at site 300 ft downstream at different datum; October 1, 1923 to October 27, 1944, at site 0.5 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Canal diverts from Bear River at Stewart Dam in NE¹/₄ sec. 34, T. 13 S., R. 44 E., for storage in Bear Lake. At times flow in canal is augmented by surplus water from Black Otter Slough entering at the station and by seepage and surplus water from irrigation.

COOPERATION.--Records collected by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--80 years, 365 ft³/s, 264,400 acre-ft/yr.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	28	e38	e56	e66	e71	245	5.4	7.1	7.1	10	5.8
2	5.0	32	e38	e56	e66	e73	234	5.4	7.1	7.1	10	5.8
3	5.0	32	e41	e56	e64	e71	253	5.4	7.1	7.1	12	5.8
4	5.0	31	e38	e58	e64	e73	242	5.4	7.1	10	12	5.8
5	5.0	30	e38	e58	e66	e75	215	5.4	7.1	10	12	5.8
6	5.2	e28	e38	e58	e66	e78	202	5.4	7.1	10	12	5.8
7	5.8	e28	e41	e60	e66	e75	189	5.4	7.1	10	12	5.8
8	5.4	e30	e41	e60	e69	e78	192	5.4	7.1	10	12	5.8
9	4.6	e28	e45	e60	e69	e79	187	5.4	7.1	10	12	5.8
10	6.8	e28	e45	e62	e66	e85	181	5.4	7.1	10	12	5.8
11	9.1	e30	e45	e62	e66	e87	171	6.3	7.1	10	12	5.8
12	9.3	e30	e48	e62	e69	e88	154	6.3	7.1	10	12	5.8
13	10	e33	e48	e64	e66	e90	137	6.3	7.1	10	12	5.8
14	12	e33	e45	e64	e66	e91	106	6.3	7.1	10	12	5.8
15	13	e30	e45	e62	e64	e92	91	6.3	7.1	10	12	5.8
16	16	e30	e48	e62	e64	e97	87	6.3	7.1	10	12	5.8
17	13	e33	e48	e62	e66	e98	83	6.3	7.1	10	12	5.8
18	11	e33	e45	e64	e66	e103	78	6.3	7.1	10	12	5.8
19	13	e33	e45	e64	e69	e107	76	6.3	7.1	10	12	5.8
20	12	e33	e45	e66	e66	e113	5.4	6.3	7.1	10	12	2.4
21	12	e33	e48	e66	e66	e119	5.4	6.3	7.1	10	12	2.4
22	14	e36	e48	e64	e69	e125	5.4	6.3	7.1	10	12	2.4
23	13	e33	e48	e64	e69	e131	5.4	6.3	7.1	10	12	2.4
24	14	e33	e48	e66	e66	e138	5.4	6.3	7.1	10	12	2.4
25	16	e33	e52	e66	e66	e138	5.4	6.3	7.1	10	12	2.4
26	16	e36	e52	e64	e64	e156	5.4	6.3	7.1	10	12	2.4
27	15	e36	e52	e64	e66	193	5.4	6.3	7.1	10	5.8	2.4
28	15	e38	e55	e66	e69	200	5.4	7.1	7.1	10	5.8	2.4
29	15	e38	e55	e64	---	215	5.4	7.1	7.1	10	5.8	2.4
30	19	e38	e55	e64	---	230	5.4	7.1	7.1	10	5.8	2.4
31	27	---	e55	e66	---	242	---	7.1	---	10	5.8	---
TOTAL	347.2	967	1433	1930	1859	3611	3182.4	189.5	213.0	301.3	337.0	136.6
MEAN	11.20	32.23	46.23	62.26	66.39	116.5	106.1	6.113	7.100	9.719	10.87	4.553
MAX	27	38	55	66	69	242	253	7.1	7.1	10	12	5.8
MIN	4.6	28	38	56	64	71	5.4	5.4	7.1	7.1	5.8	2.4
AC-FT	689	1920	2840	3830	3690	7160	6310	376	422	598	668	271

CAL YR 2001 TOTAL 25465.6 MEAN 69.77 MAX 656 MIN 3.6 AC-FT 50510
WTR YR 2002 TOTAL 14507.0 MEAN 39.75 MAX 253 MIN 2.4 AC-FT 28770

e Estimated

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

LOCATION.--Lat 42°07'16", long 111°18'52", in NE¹/₄ sec. 16, T. 15 S., R. 44 E., Bear Lake County, Hydrologic Unit 16010201, in Lifton pumping plant of Utah Power & Light Co., 3.5 mi east of St. Charles.

DRAINAGE AREA.--435 mi², approximately (does not include Mud Lake drainage).

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

GAGE.--Water-stage recorder. Elevation of gage is 5,900 ft, PacifiCorp datum.

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

COOPERATION.--Records provided by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 635,000 acre-ft May 28, elevation 5912.20 ft; minimum contents, 358,000 acre-ft Sep 30, elevation 5907.88 ft.

RESERVOIR STORAGE IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	596	566	570	575	583	594	607	628	629	565	479	388
2	595	566	570	576	584	594	608	628	628	561	478	388
3	594	566	570	576	584	594	609	629	627	559	476	387
4	592	566	570	576	584	594	609	630	626	557	474	385
5	592	566	570	576	585	595	612	630	626	555	471	384
6	589	566	570	576	585	595	613	630	625	553	469	382
7	587	566	571	576	585	596	614	630	624	551	466	380
8	586	566	571	576	586	596	615	630	624	548	463	378
9	585	566	571	576	586	596	615	630	623	544	460	378
10	583	566	572	577	587	596	616	630	622	539	457	378
11	583	566	572	577	587	597	616	630	621	534	454	377
12	582	566	572	578	587	597	617	630	619	530	451	376
13	581	566	572	578	588	598	617	630	617	526	448	376
14	581	566	572	578	588	598	617	630	615	523	446	376
15	579	566	572	578	589	599	618	630	613	521	442	375
16	579	566	572	579	589	599	619	630	612	518	439	373
17	578	566	572	579	589	600	619	631	610	516	436	372
18	578	566	573	579	590	600	620	631	609	514	433	371
19	577	566	573	579	591	600	621	631	607	510	430	370
20	576	566	573	579	591	600	622	632	606	508	427	369
21	576	566	573	580	591	600	623	632	603	506	423	368
22	575	567	573	580	591	600	624	632	600	504	420	367
23	574	567	574	580	592	600	624	633	597	501	417	366
24	574	568	574	581	592	601	624	633	594	499	413	365
25	573	568	574	581	592	602	624	634	590	496	409	364
26	572	568	574	581	592	602	625	634	585	494	404	363
27	570	569	574	581	593	603	625	634	581	491	399	361
28	569	569	574	581	593	604	626	635	577	488	396	360
29	568	569	574	581	---	604	626	634	573	485	391	359
30	567	569	574	582	---	605	627	632	568	483	390	358
31	566	---	575	583	---	606	---	631	---	481	389	---
MAX	596	569	575	583	593	606	627	635	629	565	479	388
MIN	566	566	570	575	583	594	607	628	568	481	389	358
(#)	5911.15	5911.19	5911.28	5911.40	5911.56	5911.75	5912.08	5912.14	5911.18	5909.83	5908.38	5907.88
(*)	-30	+3	+6	+8	+10	+13	+21	+4	-63	-87	-92	-31

CAL YR 2001.....(*) -284

WTR YR 2002.....(*) -238

(#) Elevation, in feet, at end of month.

(*) Change in contents, in thousands of acre-feet.

BEAR RIVER BASIN

10059500 BEAR LAKE OUTLET CANAL NEAR PARIS, ID

LOCATION.--Lat 42°13'00", long 111°20'35", in SW¹/₄NW¹/₄SW¹/₄ sec. 8, T. 14 S., R. 44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 2,000 ft downstream from headgates (at dike) and 3 mi southeast of Paris.

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

GAGE.--Water-stage recorder. Datum of gage is 5,912.6 ft above NGVD of 1929, unadjusted.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Bear Lake (station 10055500).

COOPERATION.--Records collected by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--80 years, 418 ft³/s, 302,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,080 ft³/s, Jun 19-21, 1986; minimum daily discharge, 1.0 ft³/s, for many days in 1937, 1954, 1959, 1961, 1964, 1977-78.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	658	1340	896	595
2	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	662	1450	884	544
3	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	661	1490	887	599
4	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	594	1560	889	727
5	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	481	1620	912	718
6	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	507	1620	944	647
7	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	504	1610	947	560
8	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	525	1600	946	333
9	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	533	1580	946	108
10	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	523	1570	958	111
11	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	520	1560	975	114
12	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	515	1550	988	241
13	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	453	1540	999	322
14	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	418	1530	999	243
15	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	454	1510	995	261
16	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	514	1510	992	262
17	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	588	1440	995	121
18	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	676	1370	995	e5.0
19	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	829	1370	992	e5.0
20	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	112	999	1360	1030	e5.0
21	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	210	1140	1350	1090	e5.0
22	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	1320	1310	1110	e5.0
23	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	1430	1200	1160	e5.0
24	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	1510	1190	1280	e5.0
25	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	1660	1120	1320	e5.0
26	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	1660	999	1320	e5.0
27	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	1570	994	1240	109
28	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	e5.0	150	1460	989	1040	181
29	e5.0	e5.0	e5.0	e5.0	---	e5.0	e5.0	370	1440	987	736	e5.0
30	e5.0	e5.0	e5.0	e5.0	---	e5.0	e5.0	509	1350	979	607	e5.0
31	e5.0	---	e5.0	e5.0	---	e5.0	---	665	---	944	539	---
TOTAL	155.0	150.0	155.0	155.0	140.0	155.0	150.0	2141.0	26154	42242	30611	6851.0
MEAN	5.000	5.000	5.000	5.000	5.000	5.000	5.000	69.06	871.8	1363	987.5	228.4
MAX	5.0	5.0	5.0	5.0	5.0	5.0	5.0	665	1660	1620	1320	727
MIN	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	418	944	539	5.0
AC-FT	307	298	307	307	278	307	298	4250	51880	83790	60720	13590

CAL YR 2001 TOTAL 128867 MEAN 353.1 MAX 1440 MIN 5.0 AC-FT 255600
WTR YR 2002 TOTAL 109059 MEAN 298.8 MAX 1660 MIN 5.0 AC-FT 216300

e Estimated

10068500 BEAR RIVER AT PESCADERO, ID

LOCATION.--Lat 42°24'06", long 111°21'22", in SW¹/₄SW¹/₄SE¹/₄ sec. 6, T. 12 S., R. 44 E., Bear Lake County, Hydrologic Unit 16010201, on left bank at Pescadero, 400 ft downstream from road bridge, 2 mi downstream from Bennington Creek, and 6.5 mi northwest of Montpelier.

DRAINAGE AREA.--3,705 mi².

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

GAGE.--Water-stage recorded. Elevation of gage is 5,900 ft above NGVD of 1929, from topographic map. Prior to October 1, 1988 at datum 0.35 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Bear Lake (station 10055500) and diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,280 ft³/s, Jun 21, 1986; minimum daily, 23 ft³/s, Mar 14-17, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,770 ft³/s, Jul 7, gage height, 5.86 ft; minimum daily discharge, 34 ft³/s, Oct 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e34	49	e62	e47	e39	e62	e86	71	673	1370	e980	617
2	e35	48	e59	e45	e39	e62	e84	76	679	1470	956	581
3	e35	47	e60	e45	e39	e62	e84	81	707	1550	940	560
4	e36	48	e64	e44	e40	e64	e83	78	717	1600	934	664
5	e36	48	e68	e44	e41	e64	e82	76	587	1690	938	727
6	e37	49	e63	e43	e41	e66	e86	72	565	1720	974	732
7	e37	56	e59	e43	e42	e66	e92	76	581	1770	988	627
8	e38	56	e60	e42	e43	e64	105	70	583	1740	981	582
9	e38	55	e60	e42	e44	e63	98	71	610	1720	980	307
10	e39	52	e59	e41	e45	e61	91	63	628	1700	982	176
11	e39	53	e58	e41	e46	e59	87	64	626	1690	1010	154
12	e40	55	e57	e40	e46	e60	82	65	627	1680	1020	150
13	e40	56	e57	e40	e47	e62	74	64	610	1660	1030	327
14	e41	57	e55	e40	e47	e64	68	66	502	1650	1040	286
15	e42	57	e53	e41	e48	e66	68	64	522	1620	1040	268
16	e42	57	e51	e42	e49	e68	65	63	506	1600	1020	274
17	e43	56	e48	e41	e50	e70	85	57	603	1580	e1010	270
18	43	57	e46	e39	e50	e72	79	58	625	1500	1010	146
19	43	56	e47	e40	e52	e74	89	61	756	1450	1010	56
20	44	57	e48	e40	e52	e76	99	62	900	1430	1010	46
21	44	58	e49	e41	e54	e78	94	279	1110	1420	1090	42
22	45	63	e48	e42	e54	e80	84	208	1310	1400	1120	41
23	48	65	e48	e43	e56	e82	78	118	1420	1330	1130	38
24	45	62	e49	e42	e58	e84	66	126	1450	1280	1230	35
25	45	e62	e50	e42	e58	e86	64	113	1580	1250	1310	37
26	46	e64	e50	e40	e60	e88	64	103	e1670	1140	1340	39
27	46	e62	e49	e39	e60	e92	73	95	1680	1090	1340	38
28	47	e62	e49	e38	e60	e90	75	97	1570	1070	1210	200
29	46	e64	e49	e38	---	e90	72	356	1510	1060	922	164
30	45	e61	e48	e38	---	e90	69	440	1470	1050	771	55
31	50	---	e48	e38	---	e88	---	633	---	e1020	584	---
TOTAL	1289	1692	1671	1281	1360	2253	2426	3926	27377	45300	31900	8239
MEAN	41.58	56.40	53.90	41.32	48.57	72.68	80.87	126.6	912.6	1461	1029	274.6
MAX	50	65	68	47	60	92	105	633	1680	1770	1340	732
MIN	34	47	46	38	39	59	64	57	502	1020	584	35
AC-FT	2560	3360	3310	2540	2700	4470	4810	7790	54300	89850	63270	16340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923-54, 1970-2002, BY WATER YEAR (WY)

	MEAN	462.5	472.4	475.3	433.4	389.9	398.6	436.0	573.4	944.2	1196	1022	669.6
MAX	2039	2134	1788	1340	1710	1707	1678	2106	3413	2918	1955	1696	
(WY)	1984	1984	1985	1924	1985	1985	1986	1986	1986	1983	1983	1984	
MIN	35.7	56.4	53.9	36.4	29.8	25.4	80.9	127	340	516	511	43.2	
(WY)	1978	2002	2002	1936	1936	1936	2002	2002	1932	1938	1936	1977	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1923-54, 1970-2002

ANNUAL TOTAL	155552	128714		
ANNUAL MEAN	426.2	352.6	626.2	
HIGHEST ANNUAL MEAN			1733	1984
LOWEST ANNUAL MEAN			266	1945
HIGHEST DAILY MEAN	1640	Jul 4	4280	Jun 21 1986
LOWEST DAILY MEAN	30	Sep 21	23	Mar 14 1936
ANNUAL SEVEN-DAY MINIMUM	31	Sep 18	23	Mar 11 1936
ANNUAL RUNOFF (AC-FT)	308500	255300	453600	
10 PERCENT EXCEEDS	1290	1260	1340	
50 PERCENT EXCEEDS	72	65	510	
90 PERCENT EXCEEDS	43	41	75	

e Estimated

BEAR RIVER BASIN

10075000 BEAR RIVER AT SODA SPRINGS, ID

LOCATION.--Lat 42°36'50", long 111°34'58", in NW¹/₄SW¹/₄NW¹/₄ sec. 29, T. 9 S., R. 42 E., Caribou County, Hydrologic Unit 16010202, on left bank 800 ft upstream from Bailey Creek road bridge and 2 mi south of Soda Springs.

DRAINAGE AREA.--3,972 mi².

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

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

GAGE.--Water-stage recorder. Elevation of gage is 5,760 ft above NGVD of 1929, from topographic map. May 25 to October 2, 1896, May 22 to July 1, 1898, staff gage at different datum. During irrigation season 1944-49, 1950-53, water-stage recorder at site 800 ft downstream at different datum.

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

COOPERATION.--Records collected by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--49 years, 717 ft³/s, 519,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft³/s, Jun 9, 15, 1896, gage height, 8.40 ft, datum then in use; minimum daily discharge, 37 ft³/s, Sep 30, Oct, 1, 2, 2001.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	107	e112	e109	e112	e114	240	164	765	1400	1020	546
2	37	107	e112	e109	e109	e116	244	187	792	1400	976	609
3	39	107	e109	e112	e112	e116	241	174	819	1500	960	558
4	39	107	e112	e109	e114	e118	246	169	833	1540	952	588
5	39	107	e112	e107	e112	e116	243	167	774	1610	951	714
6	38	107	e114	e112	e112	e114	247	167	655	1670	971	741
7	41	107	e114	e109	e109	e112	245	171	661	1710	1010	723
8	59	107	e112	e109	e109	e114	249	180	668	1720	998	644
9	79	107	e109	e112	e109	e116	236	175	687	1680	1000	510
10	81	107	e109	e109	e112	e114	184	170	718	1660	1000	235
11	79	107	e107	e107	e112	e116	176	168	725	1640	1020	177
12	82	107	e107	e112	e109	e118	166	168	713	1630	1030	166
13	84	107	e107	e109	e109	e118	153	164	701	1620	1030	192
14	89	107	e112	e109	e109	e120	149	159	635	1610	1050	369
15	90	107	e109	e112	e112	e118	176	156	555	1590	1050	277
16	90	107	e109	e112	e114	e125	194	159	572	1570	1040	285
17	90	107	e107	e112	e114	e129	174	157	601	1550	1010	293
18	88	107	e109	e109	e114	e139	181	152	661	1510	1010	279
19	86	107	e109	e109	e112	e144	178	155	723	1450	1000	141
20	88	107	e109	e114	e112	e149	191	160	861	1410	1000	97
21	88	107	e109	e107	e112	e164	191	188	1040	1390	1040	82
22	90	107	e112	e109	e114	e172	175	456	1260	1370	1090	74
23	94	107	e112	e112	e116	e178	159	286	1400	1330	1110	69
24	94	e107	e109	e114	e114	e187	149	239	1450	1270	1150	79
25	94	e107	e109	e112	e112	186	140	243	1520	1250	1270	68
26	95	e107	e112	e109	e112	191	138	227	1650	1170	1320	65
27	95	e107	e112	e109	e109	215	149	214	1690	1070	1330	72
28	95	e107	e112	e112	e112	220	157	199	1620	1060	1250	72
29	95	e107	e109	e114	---	227	155	241	1520	1050	1040	253
30	95	e107	e109	e114	---	230	150	500	1480	1050	778	166
31	116	---	e109	e109	---	233	---	622	---	1040	648	---
TOTAL	2406	3210	3414	3423	3128	4629	5676	6737	28749	44520	32104	9144
MEAN	77.61	107.0	110.1	110.4	111.7	149.3	189.2	217.3	958.3	1436	1036	304.8
MAX	116	107	114	114	116	233	249	622	1690	1720	1330	741
MIN	37	107	107	107	109	112	138	152	555	1040	648	65
AC-FT	4770	6370	6770	6790	6200	9180	11260	13360	57020	88310	63680	18140

CAL YR 2001 TOTAL 167729 MEAN 459.5 MZX 1560 MIN 37 AC-FT 332700
WTR YR 2002 TOTAL 147140 MEAN 403.1 MAX 1720 MIN 37 AC-FT 291900

e Estimated

10079000 SODA POINT RESERVOIR AT ALEXANDER, ID

LOCATION.--Lat 42°38'41", long 111°42'44", in NW¹/₄SE¹/₄NW¹/₄ sec. 17, T. 9 S., R. 41 E., Caribou County, Hydrologic Unit 16010202, 0.5 mi Southeast of Alexander, 5 mi downstream from Soda Creek.

DRAINAGE AREA.--4,099 mi².

GAGE.--Elevation of gage is 5,600 ft, PacifiCorp datum.

REMARKS.--Records good.

PERIOD OF RECORD.--October 1924 to current year. Prior to 1986, published in reports of the Bear River Commission.

COOPERATION.--Records provided by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 14,970 acre-ft Sep 18, elevation 5720.29 ft; minimum contents, 11,080 acre-ft Jul 5, elevation 5716.28 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13070	12960	13650	13240	13900	14020	14650	12710	12300	12540	14330	14170
2	12710	12960	13520	13270	13900	14020	14520	12870	12780	12100	14260	14120
3	12700	12980	13420	13300	13900	14020	14300	13010	13300	11610	14190	14150
4	12670	13010	13290	13320	13910	13990	13990	13120	13710	11250	14090	13870
5	12670	13020	13150	13340	13910	13980	13670	13210	14100	11080	13940	13700
6	12670	13040	12990	13360	13920	13960	13250	13280	14200	11170	13830	13680
7	12670	13180	12990	13400	13920	13960	12740	13390	14170	11380	13770	14160
8	12670	13230	12820	13440	13940	13990	12600	13390	14120	11600	13740	14500
9	12670	13260	12840	13470	13940	14000	12580	13590	14130	11810	13680	14730
10	12780	13290	12870	13510	13940	14000	12540	13690	14180	11940	13640	14730
11	12800	13320	12870	13540	13940	14010	12540	13780	14310	12030	13550	14530
12	12810	13360	12920	13570	13940	14010	12530	13870	14320	12100	13470	14500
13	12810	13400	12940	13620	13920	14100	12530	13940	14380	12150	13450	14140
14	12840	13430	13000	13660	13920	14150	12460	14030	14410	12180	13420	14460
15	12850	13480	13020	13670	13920	14180	12490	14110	14410	12430	13420	14700
16	12870	13530	13040	13670	13940	14200	12490	14110	14360	12690	13440	14790
17	12900	13570	13040	13700	13940	14240	12590	14220	14070	12950	13440	14900
18	12900	13620	13070	13740	13940	14270	12580	14290	13940	13260	13420	14970
19	12910	13670	13100	13750	13940	14310	12620	14320	13920	13490	13390	14850
20	12910	13720	13140	13750	13940	14320	12590	14020	13700	13670	13350	14290
21	12930	13770	13150	13800	13920	14340	12620	13650	13700	13900	13070	14160
22	12930	13840	13150	13810	13940	14410	12620	13460	13360	14080	12950	14030
23	12790	13890	13160	13820	13970	14530	12610	13570	13110	14180	12850	13890
24	12790	13960	13170	13830	13980	14680	12510	13400	13040	14370	12810	13770
25	12790	14020	13170	13860	14020	14850	12430	13140	12700	14500	12910	13690
26	12820	14060	13170	13860	14020	14720	12450	12890	12570	14830	12980	13580
27	12820	14160	13170	13870	14020	14590	12490	12630	12630	14880	13140	13510
28	12820	14140	13190	13910	14020	14460	12540	12630	12630	14810	13570	13430
29	12820	13870	13200	13940	---	14460	12610	12330	12620	14700	13830	13360
30	12820	13760	13210	13940	---	14490	12660	11740	12500	14590	13940	13630
31	12880	---	13230	13900	---	14650	---	11920	---	14470	14160	---
MAX	13070	14160	13650	13940	14020	14850	14650	14320	14410	14880	14330	14970
MIN	12670	12960	12820	13240	13900	13960	12430	11740	12300	11080	12810	13360
(#)	5718.25	5719.14	5718.61	5719.28	5719.39	5719.99	5718.02	5717.23	5717.85	5719.82	5719.53	5719.01
(*)	+10	+880	-530	+670	+120	+630	-1990	-740	+580	+1970	-310	-530

CAL YR 2001.....(*) +380

WTR YR 2002.....(*) +760

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

BEAR RIVER BASIN

10079500 BEAR RIVER AT ALEXANDER, ID

LOCATION.--Lat 42°38'42", long 111°41'51", in NE¹/₄SW¹/₄NW¹/₄ sec. 17, T. 9 S., R. 41 E., Caribou County, Hydrologic Unit 16010202, on right bank 600 ft downstream from Soda hydroelectric plant of Utah Power & Light Co., 0.5 mi southeast of Alexander, and 5 mi downstream from Soda Creek.

DRAINAGE AREA. --4,099 mi².

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

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

GAGE.--Water-stage recorder. Elevation of gage is 5,650 ft above NGVD of 1929, from topographic map.

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

COOPERATION.--Records collected by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--90 years, 804 ft³/s, 582,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,740 ft³/s, Mar 31, 1911; maximum gage height, 15.95 ft, Dec 11, 1919 (backwater from ice); minimum, 14 ft³/s, Oct 22, 1990.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	171	300	165	156	188	579	189	564	1720	1110	657
2	116	167	301	164	156	174	618	186	563	1940	1060	658
3	131	168	291	164	156	173	619	187	614	1970	1060	723
4	113	168	297	163	156	172	621	184	651	1930	1050	790
5	114	164	308	163	155	171	623	185	681	1890	1050	792
6	115	165	308	162	155	179	625	186	696	1870	1040	694
7	116	169	216	170	155	192	426	183	696	1890	1040	618
8	117	161	171	165	159	186	280	184	703	1920	1030	626
9	152	162	167	164	159	176	256	180	694	1940	1040	620
10	153	162	167	164	154	175	257	182	693	1960	1060	379
11	154	163	168	163	158	179	259	183	692	1970	1060	275
12	155	163	168	162	158	201	265	184	691	1990	1060	261
13	156	164	169	162	158	200	230	185	698	2000	1060	266
14	156	164	168	161	162	190	207	182	658	1890	1070	267
15	157	160	167	161	161	184	203	186	626	1820	1060	268
16	158	161	167	156	161	179	270	185	704	1800	1060	274
17	159	161	166	156	161	178	281	185	735	1730	1050	333
18	160	162	170	155	165	177	263	184	759	1700	1050	397
19	165	162	169	155	165	176	279	315	775	1630	1050	448
20	165	163	168	155	164	198	275	490	878	1500	1140	272
21	166	163	168	155	169	222	271	489	1170	1450	1190	184
22	166	164	167	159	172	236	273	488	1530	1430	1190	177
23	167	168	166	158	175	230	269	488	1540	1330	1190	165
24	167	169	170	158	179	214	265	480	1670	1280	1190	166
25	168	169	170	158	178	289	210	479	1760	1190	1260	163
26	168	174	169	158	173	342	188	472	1690	1180	1290	160
27	169	179	168	157	172	347	185	471	1790	1190	1180	153
28	169	244	172	157	180	345	186	471	1690	1200	1110	150
29	169	299	163	157	---	340	187	470	1750	1190	999	152
30	170	300	162	157	---	340	188	469	1560	1190	759	153
31	170	---	166	157	---	442	---	516	---	1190	656	---
TOTAL	4698	5309	6047	4961	4572	6995	9658	9418	29921	50880	33214	11241
MEAN	151.5	177.0	195.1	160.0	163.3	225.6	321.9	303.8	997.4	1641	1071	374.7
MAX	170	300	308	170	180	442	625	516	1790	2000	1290	792
MIN	113	160	162	155	154	171	185	180	563	1180	656	150
AC-FT	9320	10530	11990	9840	9070	13870	19160	18680	59350	100900	65880	22300
CAL YR 2001	TOTAL	194164	MEAN	532.0	MAX	1750	MIN	104	AC-FT	385100		
WTR YR 2002	TOTAL	176914	MEAN	484.7	MAX	2000	MIN	113	AC-FT	350900		

10080000 BEAR RIVER BELOW GRACE DAM, NEAR GRACE, ID

LOCATION.--Lat 42°35'11", long 111°43'51", in NE¹/₄SE¹/₄NW¹/₄ sec. 1, T. 10 S., R. 40 E., Caribou County, Hydrologic Unit 16010202, on left bank 1,000 ft downstream from dam, and 1 mi north of Grace.

DRAINAGE AREA.--4,110 mi².

PERIOD OF RECORD.--April 1922 to November 1923 (fragmentary); March 1924 to current year. 1945 to 1950 published in reports on Bear River Hydrometric Data, water year 1946 published in WSP 1060. Prior to 1986, not published, records available from PacifiCorp.

GAGE.--Water-stage recorder. Elevation of gage is 5,550 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair.

COOPERATION.--Records collected by PacifiCorp.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,390 ft³/s, Jun 10, 1986, gage height, 6.77 ft; minimum, 0.74 ft³/s, Feb 2, 1986.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	7.3	7.4	3.5	6.3	21	3.4	7.3	20	129	39	15
2	8.4	7.7	9.1	3.2	7.0	10	3.1	6.1	21	372	34	16
3	6.4	7.3	5.9	3.2	8.2	7.6	4.2	6.4	22	372	31	15
4	7.3	6.9	5.5	3.2	9.0	5.8	3.1	6.8	22	317	30	25
5	5.0	7.0	8.3	3.4	8.9	4.6	3.1	6.4	24	249	30	24
6	5.0	7.4	5.9	3.4	9.7	2.0	3.1	6.4	22	220	30	18
7	5.1	7.4	4.2	3.7	9.2	1.9	5.3	6.7	34	228	34	14
8	5.1	6.2	4.2	3.7	7.5	2.5	3.6	5.9	17	248	34	17
9	5.5	6.2	3.9	3.6	6.6	2.2	3.4	5.5	26	256	36	14
10	9.2	5.9	3.9	3.9	5.4	2.3	3.4	5.9	24	260	37	15
11	11	6.7	3.9	3.5	4.0	2.4	3.6	5.9	26	269	28	14
12	7.5	6.3	4.6	3.5	3.4	3.2	3.6	5.5	28	278	28	13
13	6.8	6.3	5.2	3.8	3.4	4.2	100	5.1	29	296	27	12
14	6.8	5.9	5.6	4.0	4.7	4.2	210	4.4	48	195	31	13
15	6.8	6.0	5.6	3.7	14	3.9	214	4.1	26	138	30	12
16	6.9	5.6	4.5	3.4	4.4	4.6	264	4.7	21	124	29	8.8
17	9.0	5.6	4.1	3.0	3.1	4.2	286	3.7	17	100	30	5.2
18	8.2	5.6	3.8	2.8	3.2	3.9	268	12	18	97	30	5.6
19	9.5	5.3	4.1	2.3	3.4	3.6	277	47	17	69	33	4.8
20	7.0	5.3	4.1	5.0	3.0	3.6	276	28	21	69	30	4.8
21	8.3	5.3	3.7	5.7	3.1	4.6	272	38	19	77	26	6.3
22	12	6.8	3.7	4.3	2.5	5.3	271	35	80	85	25	5.2
23	11	6.5	3.7	3.1	2.4	5.6	262	36	100	68	26	4.5
24	8.8	6.5	4.0	2.8	2.7	4.6	262	38	214	40	86	13
25	8.4	7.7	8.9	2.8	2.8	4.2	212	37	349	37	222	15
26	8.9	5.4	6.0	2.7	2.3	6.4	58	37	338	36	263	13
27	8.5	9.9	5.6	2.9	2.0	6.4	17	36	353	45	144	3.5
28	8.1	8.2	5.2	4.6	2.0	6.0	12	24	363	38	83	3.2
29	8.1	4.4	4.8	3.6	---	3.1	11	21	285	36	61	3.0
30	8.1	16	4.8	3.9	---	3.1	6.9	24	118	34	18	3.5
31	7.3	---	4.1	5.2	---	4.2	---	18	---	35	15	---
TOTAL	238.9	204.6	158.3	111.4	144.2	151.2	3321.8	527.8	2702	4817	1600	336.4
MEAN	7.706	6.820	5.106	3.594	5.150	4.877	110.7	17.03	90.07	155.4	51.61	11.21
MAX	12	16	9.1	5.7	14	21	286	47	363	372	263	25
MIN	4.9	4.4	3.7	2.3	2.0	1.9	3.1	3.7	17	34	15	3.0
AC-FT	474	406	314	221	286	300	6590	1050	5360	9550	3170	667

CAL YR 2001 TOTAL 15029.8 MEAN 41.18 MAX 335 MIN 2.0 AC-FT 29810
CAL YR 2002 TOTAL 14313.6 MEAN 39.22 MAX 372 MIN 1.9 AC-FT 28390

BEAR RIVER BASIN

10086000 ONEIDA NARROWS RESERVOIR AT ONEIDA, ID

LOCATION.--Lat 42°16'34", long 111°44'56", in SW¹/₄NW¹/₄SE¹/₄ sec. 23, T. 13 S, R. 40 E., Franklin County, Hydrologic Unit 16010202, 6 mi south of Cleveland.

DRAINAGE AREA.--4,455 mi².

PERIOD OF RECORD.--October 1914 to current year. Prior to 1986, published in reports of Bear River Commission.

REVISED RECORDS.--WDR UT-74-1, WDR UT-89-1: Drainage area; WDR UT-88-1: 1987.

GAGE.--Elevation of gage is 4,800 ft, PacifiCorp datum.

REMARKS.--Records fair.

COOPERATION.--Records provided by Pacificorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10500	10330	10260	10350	10450	10380	10540	10380	9949	9263	10310	10330
2	10380	10300	10280	10330	10540	10400	10540	10370	9883	9024	10400	10350
3	10450	10370	10330	10310	10520	10420	10250	10420	9849	9057	10500	10260
4	10350	10370	10230	10310	10400	10450	10180	10470	9784	9246	10470	10160
5	10420	10380	10230	10300	10400	10480	9949	10500	9784	9327	10380	10120
6	10400	10430	10310	10350	10400	10480	9883	10480	9801	9441	10430	10150
7	10370	10470	10330	10370	10430	10480	9897	10470	9863	9475	10470	10420
8	10370	10430	10300	10370	10500	10450	9866	10430	9966	9216	10540	10580
9	10330	10400	10230	10280	10500	10310	9914	10430	10010	9280	10500	10690
10	10370	10380	10220	10310	10450	10330	9897	10420	10100	9327	10420	10640
11	10450	10380	10220	10330	10470	10350	9901	10380	10160	9343	10250	10500
12	10370	10310	10220	10370	10420	10370	9980	10350	10260	9556	10310	10580
13	10300	10350	10200	10370	10380	10420	9997	10310	10380	9815	10330	10580
14	10260	10380	10220	10330	10420	10450	10080	10300	10500	10130	10310	10480
15	10310	10380	10280	10280	10400	10400	10050	10300	10450	10220	10310	10430
16	10400	10370	10280	10280	10370	10350	10010	10280	10520	10300	10300	10430
17	10470	10310	10250	10280	10470	10280	10120	10300	10500	10260	10260	10500
18	10430	10230	10300	10230	10540	10260	10200	10300	10370	10310	10230	10670
19	10400	10080	10310	10280	10540	10250	10220	10180	9815	10350	10230	10620
20	10380	10160	10300	10330	10500	10160	10220	10030	9296	10310	10130	10500
21	10370	10180	10260	10230	10470	10230	10250	10160	8882	10150	10130	10520
22	10310	10220	10260	10350	10450	10370	10060	10310	8615	10160	10120	10420
23	10350	10230	10260	10430	10450	10420	9980	10370	8631	10310	10080	10450
24	10420	10180	10260	10420	10470	10430	9949	10350	8431	10350	10100	10330
25	10230	10160	10310	10380	10420	10160	10030	10350	7868	10640	10220	10450
26	10260	10150	10370	10420	10370	10250	10130	10310	7675	10640	9980	10470
27	10260	10150	10430	10470	10350	10330	10230	10330	7616	10450	10140	10470
28	10260	10080	10480	10430	10500	10280	10250	10300	8094	10370	10070	10500
29	10300	10200	10400	10330	---	10280	10310	10250	8053	10310	10120	10420
30	10300	10280	10370	10310	---	10330	10380	10130	7983	10300	10250	10350
31	10350	---	10370	10330	---	10450	---	10100	---	10280	10300	---
MAX	10500	10470	10480	10470	10540	10480	10540	10500	10520	10640	10540	10690
MIN	10230	10080	10200	10230	10350	10160	9866	10030	7616	9024	9980	10120
(#)	4881.40	4881.21	4881.45	4881.35	4881.83	4881.69	4881.50	4880.68	4874.28	4881.21	4881.26	4881.40
(*)	-120	-70	+90	-40	+170	-50	-70	-280	-2117	+2297	+20	+50
CAL YR 2001.....(*)	+80											
WTR YR 2002.....(*)	-120											

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

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

LOCATION.--Lat 42°16'00", long 111°45'04", in NE¹/₄SE¹/₄NW¹/₄ sec. 26, T. 13 S., R. 40 E., Franklin County, Hydrologic Unit 16010202, on right bank 200 ft downstream from tailrace of Oneida plant and 6 mi south of Cleveland.

DRAINAGE AREA.--4,456 mi².

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

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

GAGE.--Water-stage recorder. Elevation of gage is 4,800 ft above NGVD of 1929, from topographic map.

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

COOPERATION.--Records collected by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--81 years, 882 ft³/s, 639,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,480 ft³/s, May 8, 1922; minimum, 3.0 ft³/s, Jun 13, 1978.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	277	409	311	230	292	769	444	392	1410	892	668
2	233	244	406	308	257	281	843	335	390	1370	813	665
3	238	231	463	308	318	281	1150	301	385	1380	792	768
4	200	234	512	289	311	279	985	310	383	1080	873	785
5	184	236	340	265	244	288	770	340	367	1390	945	793
6	189	236	407	265	244	298	854	350	343	1070	816	697
7	187	243	420	279	243	301	822	353	342	1130	812	592
8	187	321	359	341	271	446	587	352	344	1480	802	618
9	171	260	321	320	302	305	518	344	343	1270	921	708
10	154	258	301	267	252	286	523	340	338	1270	798	690
11	219	278	292	267	294	286	532	339	347	1200	906	403
12	275	264	286	266	320	286	362	331	349	1100	923	370
13	267	245	284	293	259	298	449	317	347	952	913	390
14	212	248	284	309	265	332	381	284	383	1050	920	369
15	178	271	287	296	292	339	559	260	492	1240	888	294
16	178	271	300	283	249	346	445	241	399	1180	883	277
17	206	335	285	274	240	328	397	222	612	1170	820	267
18	266	329	279	254	261	305	497	230	790	1130	869	331
19	252	343	331	246	310	283	454	275	949	1180	935	590
20	252	173	331	251	324	339	597	350	942	1070	969	532
21	250	270	320	246	295	260	484	345	1020	1080	981	298
22	247	256	304	248	286	257	519	369	976	1110	976	255
23	230	288	273	276	287	309	519	414	1070	1040	955	207
24	225	305	240	285	287	464	475	437	1570	901	858	206
25	237	305	228	285	284	473	317	383	1600	1060	1020	151
26	234	305	228	285	267	372	309	397	1500	1070	1420	160
27	234	299	247	294	248	535	329	392	1190	937	1240	173
28	234	242	329	306	268	590	342	422	1040	993	1230	215
29	236	264	350	284	---	535	294	400	835	1050	1030	234
30	236	401	302	240	---	482	294	395	881	961	845	189
31	271	---	302	225	---	495	---	393	---	996	641	---
TOTAL	6877	8232	10020	8666	7708	10971	16376	10665	20919	35320	28686	12895
MEAN	221.8	274.4	323.2	279.5	275.3	353.9	545.9	344.0	697.3	1139	925.4	429.8
MAX	275	401	512	341	324	590	1150	444	1600	1480	1420	793
MIN	154	173	228	225	230	257	294	222	338	901	641	151
AC-FT	13640	16330	19870	17190	15290	21760	32480	21150	41490	70060	56900	25580
CAL YR 2001	TOTAL	205580	MEAN	563.2	MAX	1600	MIN	95	AC-FT	407800		
WTR YR 2002	TOTAL	177335	MEAN	485.8	MAX	1600	MIN	151	AC-FT	351700		

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

LOCATION.--Lat 42°00'47", long 111°55'14", in NE¹/₄ NW¹/₄NE¹/₄ sec. 29, T. 16 S., R. 39 E., Franklin County, Idaho, Hydrologic Unit 16010202, on left bank 1,050 ft downstream from inlet canal to Cub River pumps, 1.1 mi downstream from Weston Creek, 1.8 mi upstream from Idaho-Utah State line, and 3.5 mi southeast of Weston.

DRAINAGE AREA.--4,881 mi².

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

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

GAGE.--Water-stage recorder. Elevation of gage is 4,420 ft above NGVD of 1929, from topographic map. Prior to September 10, 1982 at datum 2.00 ft higher. September 10, 1982 to September 30, 1985 at datum 10.0 ft lower.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,870 ft³/s, Jun 14, 1984, gage height, 9.20 ft; minimum daily discharge, 48 ft³/s, May 29, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,550 ft³/s, Apr 6, gage height, 12.89 ft; minimum daily discharge, 135 ft³/s, May 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	343	e288	e312	e305	e287	650	472	291	876	706	632
2	225	319	e286	e316	e300	e287	890	482	332	1040	578	630
3	279	274	e284	e320	e295	e290	1030	387	335	1060	563	662
4	237	276	e285	e322	e290	e295	962	328	312	953	668	725
5	204	269	e293	e325	e286	e305	1040	412	302	1020	708	737
6	195	275	e300	e333	e295	322	954	449	277	916	583	785
7	202	296	e302	e341	e310	336	928	442	225	927	575	708
8	202	311	e305	e338	e318	391	767	459	224	1100	572	706
9	204	378	e298	e330	e300	458	602	446	255	990	624	716
10	189	322	e296	e330	e288	340	570	431	287	971	666	838
11	179	317	e303	319	e293	324	607	426	255	969	801	682
12	308	368	e308	316	e292	349	512	431	244	795	643	455
13	345	288	e312	322	e290	396	518	411	226	849	679	492
14	328	281	e320	378	e295	419	467	353	202	752	697	506
15	229	289	e330	375	e300	430	545	252	276	901	666	441
16	207	312	e320	343	e310	438	592	193	242	836	657	390
17	215	325	e305	337	e290	430	488	141	278	915	633	384
18	283	404	e315	315	e283	382	569	116	443	827	715	355
19	315	409	e318	294	e293	373	556	122	637	860	667	516
20	296	342	e320	292	e303	376	571	212	620	877	712	670
21	289	254	e330	298	e310	377	561	245	608	984	754	510
22	288	340	e340	286	e297	349	628	368	727	793	755	414
23	295	324	e360	309	e288	397	574	353	828	755	747	261
24	256	359	e355	343	e285	476	554	354	1010	745	717	238
25	270	372	e360	351	e295	646	514	318	1310	663	786	209
26	279	360	e340	348	e304	492	437	265	1200	882	1140	171
27	277	340	e320	e340	e295	539	443	265	1060	780	1000	179
28	275	362	e310	e330	e290	669	469	265	727	852	1080	194
29	271	289	e305	e310	---	635	445	254	643	803	954	254
30	275	e290	e300	e315	---	572	415	251	591	732	907	247
31	328	---	e308	e310	---	542	---	261	---	736	649	---
TOTAL	7901	9688	9716	10098	8300	12922	18858	10164	14967	27159	22602	14707
MEAN	254.9	322.9	313.4	325.7	296.4	416.8	628.6	327.9	498.9	876.1	729.1	490.2
MAX	345	409	360	378	318	669	1040	482	1310	1100	1140	838
MIN	156	254	284	286	283	287	415	116	202	663	563	171
AC-FT	15670	19220	19270	20030	16460	25630	37400	20160	29690	53870	44830	29170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2002, BY WATER YEAR (WY)

	MEAN	952.5	1015	1025	1004	1010	1210	1422	1543	1401	1055	956.4	947.1
MAX	2850	2983	2552	1904	2556	3264	3594	3968	4263	3442	2416	2545	
(WY)	1984	1984	1985	1984	1986	1986	1986	1986	1986	1983	1984	1986	
MIN	250	298	310	334	296	351	403	335	333	393	461	192	
(WY)	1993	1993	1982	2002	2002	1991	1992	2002	1989	1995	1993	1992	

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1971 - 2002
ANNUAL TOTAL	179810	167082	
ANNUAL MEAN	492.6	457.8	1129
HIGHEST ANNUAL MEAN			2728
LOWEST ANNUAL MEAN			462
HIGHEST DAILY MEAN	1240	1310	4830
LOWEST DAILY MEAN	75	116	48
ANNUAL SEVEN-DAY MINIMUM	163	183	69
ANNUAL RUNOFF (AC-FT)	356700	331400	817600
10 PERCENT EXCEEDS	875	831	2240
50 PERCENT EXCEEDS	417	343	897
90 PERCENT EXCEEDS	241	255	324

e Estimated

10105900 LITTLE BEAR RIVER AT PARADISE, UT

LOCATION.--Lat 41°34'32", long 111°51'16" in NW¹/₄NE¹/₄SE¹/₄ sec 29, T. 10 N., R. 1 E., Cache County, Hydrologic Unit 16010203, on right bank 1 mi west of Paradise.

DRAINAGE AREA.--182 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 4,740 ft above NGVD of 1929, from topographic map. Prior to August 11, 1994, 50 ft upstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,250 ft³/s, May 11, 1998, gage height, 10.23 ft, minimum daily discharge, 4.4 ft³/s Feb 10, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 273 ft³/s, Apr 27, gage height, 6.90 ft; minimum discharge, 12 ft³/s, Jul 6, 7, and Sep 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	37	e32	e33	e22	e25	160	124	108	e15	16	16
2	14	32	e32	e32	e22	e23	154	122	94	15	15	15
3	14	31	e31	e32	e21	e22	139	119	71	16	14	15
4	13	31	e31	e32	e21	e23	137	123	62	15	15	15
5	13	31	e31	e31	e21	e23	144	132	51	14	15	15
6	13	31	e31	e32	e21	e23	142	139	49	13	15	19
7	14	34	e31	e33	e22	e24	132	152	45	13	15	20
8	17	32	e31	e34	e21	e24	125	144	39	14	15	29
9	17	32	e31	e36	e21	e26	122	134	36	14	19	26
10	17	31	e30	e34	e21	e28	143	125	38	15	17	22
11	27	31	e31	e33	e21	e30	128	126	33	15	16	21
12	28	31	e33	e32	e21	33	117	111	e26	15	16	22
13	28	31	e31	e32	e21	36	115	104	e23	15	18	20
14	28	31	e30	e32	e22	37	116	133	e20	15	17	19
15	29	31	e31	e32	e21	37	127	152	e17	15	16	19
16	29	31	e32	e31	e21	37	129	147	e15	15	17	19
17	29	30	e31	e31	e21	37	122	136	e14	15	16	20
18	29	31	e31	e31	e22	36	119	139	e13	16	17	22
19	30	30	e31	e31	e23	36	119	152	e14	18	19	22
20	29	30	e31	e30	e25	35	113	154	e14	17	20	23
21	30	e28	e32	e31	e23	38	108	161	e14	18	18	25
22	31	e29	e31	e30	e22	52	109	149	e14	17	19	25
23	28	e29	e30	e30	e23	110	101	121	e14	18	22	24
24	29	e29	e29	e30	e25	133	87	104	e14	18	18	24
25	30	e29	e29	e29	e23	100	82	89	e13	15	16	24
26	31	e29	e29	e28	e22	84	95	79	e14	16	16	23
27	31	e30	e28	e26	e23	112	178	87	e14	15	16	23
28	32	e31	e30	e24	e24	127	170	104	e14	15	16	21
29	33	e32	e32	e22	---	128	132	114	e15	15	15	21
30	32	e34	e32	e20	---	132	121	113	e15	16	16	24
31	50	---	e32	e21	---	150	---	113	---	16	16	---
TOTAL	790	929	957	935	616	1761	3786	3902	923	479	516	633
MEAN	25.48	30.97	30.87	30.16	22.00	56.81	126.2	125.9	30.77	15.45	16.65	21.10
MAX	50	37	33	36	25	150	178	161	108	18	22	29
MIN	13	28	28	20	21	22	82	79	13	13	14	15
AC-FT	1570	1840	1900	1850	1220	3490	7510	7740	1830	950	1020	1260

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

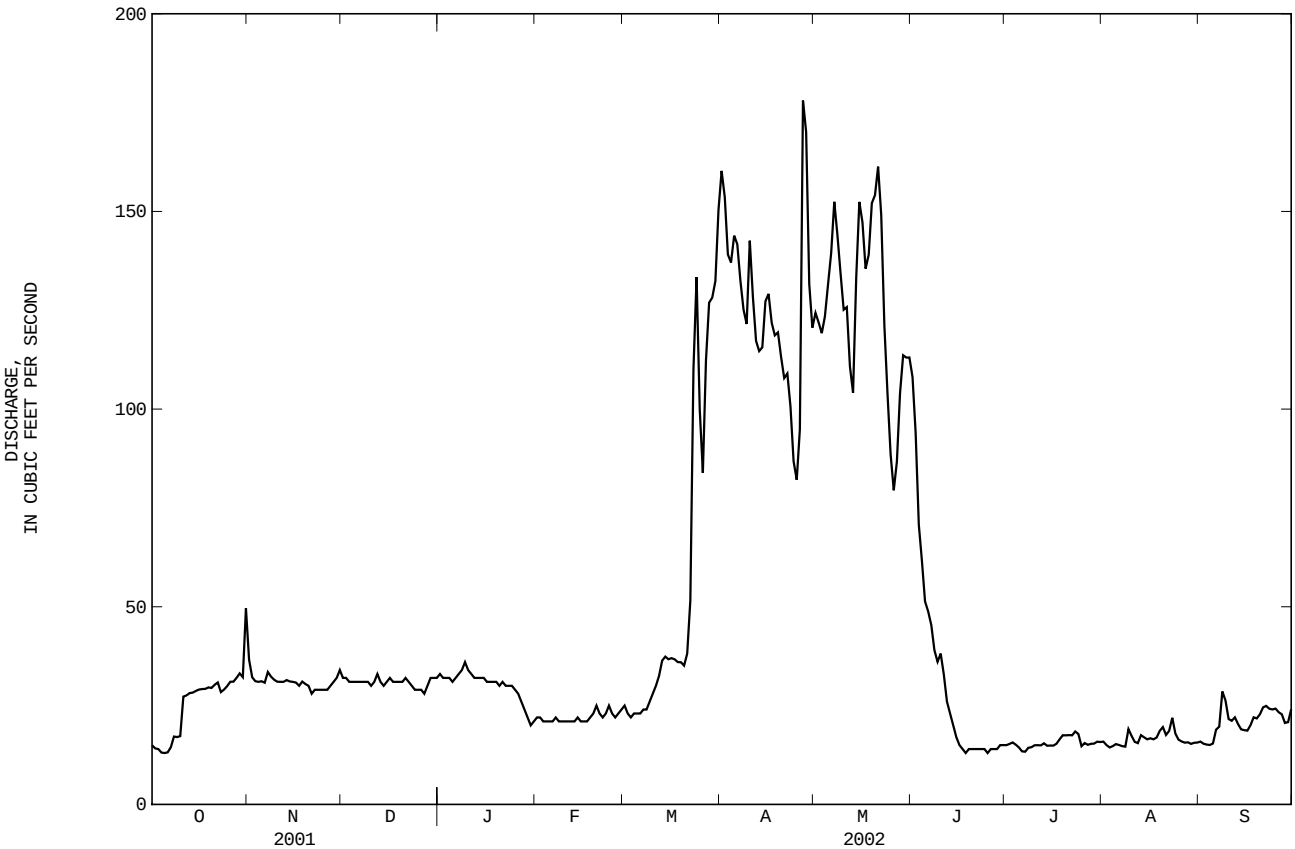
	MEAN	46.73	48.56	47.46	51.07	53.59	114.2	219.5	325.7	148.0	37.68	32.14	37.92
MAX	114	124	88.8	118	92.5	186	360	626	337	89.3	95.3	95.5	
(WY)	1999	1999	1997	1997	1999	1997	1998	1998	1998	1998	1998	1998	
MIN	16.5	20.6	19.0	17.5	14.8	56.8	90.2	74.7	18.0	15.5	12.7	15.8	
(WY)	1993	1993	1993	1993	1993	2002	2001	2001	2001	2002	1993	2001	

BEAR RIVER BASIN

10105900 LITTLE BEAR RIVER AT PARADISE, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1993 - 2002	
ANNUAL TOTAL	14300		16227		97.03	
ANNUAL MEAN	39.18		44.46		172	
HIGHEST ANNUAL MEAN					41.0	
LOWEST ANNUAL MEAN					910	
HIGHEST DAILY MEAN	153	Mar 21	178	Apr 27	910	May 11 1998
LOWEST DAILY MEAN	13	Oct 4	13	Oct 4	4.4	Feb 10 1993
ANNUAL SEVEN-DAY MINIMUM	14	Oct 1	14	Oct 1	6.9	Feb 5 1993
ANNUAL RUNOFF (AC-FT)	28360		32190		70290	
10 PERCENT EXCEEDS	93		124		253	
50 PERCENT EXCEEDS	31		29		48	
90 PERCENT EXCEEDS	16		15		17	

e Estimated



10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT

LOCATION.--Lat 41°44'35", long 111°45'40", in NE¹/₄NW¹/₄NE¹/₄ sec. 31, T. 12 N., R. 2 E., Cache County, Hydrologic Unit 16010203, Cache National Forest, on left bank 487 ft downstream from head and 3.8 mi east of Logan.

PERIOD OF RECORD.--May 1963 to current year.

GAGE.--Water-stage recorder and 8-ft concrete Parshall flume. Datum of gage is 4,858.69 ft above NGVD of 1929 (Bureau of Public Roads bench mark).

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

AVERAGE DISCHARGE.--39 years, 22.1 ft³/s, 16,020 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 111 ft³/s, May 23, 1963, May 28, 1966; no flow at times most years.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	15	5.8	e4.8	e4.5	e4.5	0.08	0.92	e48	50	38	32
2	28	10	5.9	e4.9	e4.5	e4.5	0.08	0.88	e50	49	37	31
3	28	10	6.0	e4.9	e4.5	e4.5	0.08	0.88	50	51	37	30
4	27	10	5.9	e5.0	e4.5	e4.6	0.08	1.1	50	52	38	28
5	27	11	5.8	e4.9	e4.5	e4.6	0.08	5.6	58	52	38	29
6	27	11	5.8	e4.9	e4.4	e4.7	0.04	12	62	53	37	28
7	27	11	5.8	e4.8	e4.5	e4.7	0.04	35	63	53	33	29
8	27	10	5.7	e4.7	e4.5	e4.8	0.04	32	66	51	33	29
9	27	10	5.8	e4.7	e4.4	e4.9	0.04	34	60	46	33	28
10	27	10	5.7	e4.7	e4.3	e5.0	0.04	34	43	47	33	26
11	27	10	5.8	e4.8	e4.4	e5.2	0.04	34	50	47	33	26
12	27	11	5.7	e5.0	e4.5	e5.4	0.04	34	51	46	33	26
13	27	8.1	5.7	e4.9	e4.5	5.6	0.04	37	51	46	33	25
14	25	2.6	e5.6	e4.8	e4.5	6.2	0.04	36	45	46	32	25
15	20	9.9	e5.4	e4.8	e4.5	6.2	0.04	33	52	46	32	26
16	20	10	e5.4	e4.7	e4.4	6.0	0.04	33	53	45	32	26
17	20	10	e5.2	e4.7	e4.3	5.9	e0.00	38	53	43	32	26
18	19	7.6	e5.2	e4.7	e4.2	5.9	e0.00	52	53	43	33	25
19	19	2.4	e5.2	e4.7	e4.3	5.9	e0.00	56	55	43	32	25
20	19	8.3	e5.0	e4.8	e4.4	6.1	e0.00	60	60	43	33	25
21	19	8.3	e5.0	e4.7	e4.5	5.9	e0.00	e56	57	43	e32	25
22	19	8.3	e5.2	e4.8	e4.4	5.4	e0.00	e42	56	43	e31	25
23	19	8.3	e5.2	e4.7	e4.3	5.5	0.04	e43	47	43	e31	25
24	19	8.3	e5.0	e4.8	e4.3	5.4	0.04	e44	57	43	e32	25
25	19	8.4	e4.9	e4.7	e4.2	5.5	0.04	e44	55	43	e32	25
26	19	8.5	e4.9	e4.8	e4.3	5.2	0.04	e44	50	42	e32	25
27	18	8.6	e4.9	e4.7	e4.4	4.9	0.04	e45	51	43	32	25
28	18	8.6	e4.8	e4.6	e4.5	3.8	0.04	e45	50	43	32	25
29	18	8.6	e4.8	e4.6	---	0.08	0.04	e47	51	43	32	25
30	18	7.9	e4.8	e4.6	---	0.08	0.62	e47	51	41	32	25
31	18	---	e4.8	e4.5	---	0.08	---	e47	---	37	32	---
TOTAL	700	271.7	166.7	147.7	123.5	147.04	1.74	1073.38	1598	1416	1032	795
MEAN	22.58	9.057	5.377	4.765	4.411	4.743	0.058	34.63	53.27	45.68	33.29	26.50
MAX	28	15	6.0	5.0	4.5	6.2	0.62	60	66	53	38	32
MIN	18	2.4	4.8	4.5	4.2	0.08	0.00	0.88	43	37	31	25
AC-FT	1390	539	331	293	245	292	3.5	2130	3170	2810	2050	1580

CAL YR 2001 TOTAL 6876.19 MEAN 18.84 MAX 74 MIN 0.00 AC-FT 13640
WTR YR 2002 TOTAL 7472.76 MEAN 20.47 MAX 66 MIN 0.00 AC-FT 14820

e Estimated

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT

LOCATION.--Lat 41°44'36", long 111°46'55", in NW¹/₄NW¹/₄NE¹/₄ sec. 36, T. 12 N., R. 1 E., Cache County, Hydrologic Unit 10010203, on left bank 0.5 mi upstream from State dam, and 2.5 mi east of Logan.

DRAINAGE AREA.--214 mi².

PERIOD OF RECORD.--June 1896 to current year. Published as Logan River near Logan prior to 1913. Records since May 1913 equivalent to earlier records, if records for Utah Power & Light Co.'s tailrace near Logan (station 10108000) are added. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-74-1: Drainage area. WDR UT-96-1:1995, Combined discharge of Logan River Above State Dam and Logan, Hyde Park and Smithfield Canal at Head.

GAGE.--Water-stage recorder. Elevation of gage is 4,680 ft above NGVD of 1929, from topographic map. Prior to May 7, 1913, nonrecording gage at various sites within 0.5 mi downstream at different datums. May 7, 1913, to September 3, 1938, water-stage recorder at present site at different datums.

REMARKS.--Records good. Flow affected by regulation and diversions above station for power, irrigation, and municipal culinary supply. Utah Power and Light Co. stopped diverting water from river November 1970 at which time the tailrace station (station 10108000) was discontinued. During 1963, site for gaging station for Logan, Hyde Park and Smithfield Canal (station 10108400) was relocated. Records for combined flow since that time are equivalent to previous records. For record of combined flow, see following page.

AVERAGE DISCHARGE.--River only: 89 years (water years 1914-2002), 155 ft³/s 112,300 acre-ft/yr. Combined river and canal: 105 years, 270 ft³/s 195,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 2,000 ft³/s, Mar 21, 1916, gage height, 5.6 ft; minimum, 5.2 ft³/s, Feb 26, 1986, result of hydro-electric plant testing. Combined river and canal: Maximum discharge observed, 2,480 ft³/s, May 24, 1907; minimum daily, 50 ft³/s, Jan 21, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 521 ft³/s, May 29, gage height, 3.72 ft; minimum daily discharge, 63 ft³/s, Jan 30. Combined river and canal: Maximum daily discharge, 542 ft³/s, Jun 2; minimum daily discharge, 68 ft³/s, Jan 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	91	86	84	e77	78	119	191	477	171	109	91
2	79	90	89	81	e77	76	131	193	492	166	108	92
3	79	88	92	80	e75	72	137	200	469	160	107	93
4	78	88	89	80	e79	76	138	208	428	157	105	94
5	79	87	89	79	e81	82	148	230	395	153	104	94
6	81	88	91	82	e78	81	162	233	387	148	106	97
7	81	90	89	81	e86	80	154	262	394	145	106	101
8	82	88	83	81	e85	83	154	283	390	144	105	115
9	82	88	86	80	e80	82	150	262	374	141	104	104
10	82	87	85	78	e77	80	158	247	334	139	104	98
11	84	87	85	80	e80	78	160	229	e308	136	103	97
12	85	86	80	80	e78	80	154	215	e295	133	103	97
13	79	91	86	79	e73	89	154	222	e278	131	102	96
14	82	90	87	76	79	87	165	258	282	128	102	95
15	84	86	86	80	76	82	198	301	272	126	101	97
16	83	86	81	80	78	79	243	305	268	126	99	96
17	82	86	86	76	81	83	e228	312	265	128	99	101
18	81	89	87	76	79	82	177	330	258	127	98	102
19	83	88	86	77	80	80	178	381	248	131	97	98
20	84	86	86	78	80	80	169	411	228	124	97	96
21	83	86	85	78	80	84	160	437	222	121	97	94
22	83	95	86	83	78	87	153	407	222	119	96	95
23	85	92	79	81	80	89	152	359	223	117	95	95
24	84	89	73	e80	81	97	150	329	204	115	94	94
25	84	91	71	e79	83	98	150	301	205	114	93	94
26	83	88	72	e81	78	95	161	292	201	115	92	93
27	83	87	92	e80	77	96	e176	300	196	112	92	94
28	83	84	93	e83	79	100	e168	346	190	111	93	93
29	83	89	86	e70	---	103	163	389	183	109	92	94
30	84	89	84	e63	---	106	173	419	176	110	91	96
31	98	---	84	e78	---	112	---	455	---	110	90	---
TOTAL	2562	2650	2634	2444	2215	2677	4883	9307	8864	4067	3084	2896
MEAN	82.65	88.33	84.97	78.84	79.11	86.35	162.8	300.2	295.5	131.2	99.48	96.53
MAX	98	95	93	84	86	112	243	455	492	171	109	115
MIN	78	84	71	63	73	72	119	191	176	109	90	91
AC-FT	5080	5260	5220	4850	4390	5310	9690	18460	17580	8070	6120	5740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2002, BY WATER YEAR (WY)

MEAN	139.6	132.7	118.6	111.0	109.3	136.9	252.1	567.5	667.9	328.0	182.4	148.7
MAX	247	213	186	161	205	369	615	1072	1413	691	337	267
(WY)	1984	1984	1984	1985	1986	1986	1986	1997	1986	1984	1983	1986
MIN	67.4	71.9	69.0	63.1	61.6	78.9	109	131	113	77.9	63.6	61.1
(WY)	1978	1993	1993	1993	1993	1991	1977	1977	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR			FOR 2002 WATER YEAR			WATER YEARS 1971 - 2002		
ANNUAL TOTAL	48059			48283					
ANNUAL MEAN	131.7			132.3			241.6		
HIGHEST ANNUAL MEAN							440		
LOWEST ANNUAL MEAN							99.6		
HIGHEST DAILY MEAN	721	May	16	492	Jun	2	1870	Jun	6
LOWEST DAILY MEAN	71	Dec	25	63	Jan	30	55	Jan	21
ANNUAL SEVEN-DAY MINIMUM	79	Dec	20	74	Jan	29	58	Sep	24
ANNUAL RUNOFF (AC-FT)	95330			95770			175000		
10 PERCENT EXCEEDS	249			262			554		
50 PERCENT EXCEEDS	96			93			146		
90 PERCENT EXCEEDS	83			79			84		

e Estimated

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	107	91	88	82	83	119	192	525	221	146	123
2	107	100	95	85	82	81	131	194	542	215	146	123
3	106	98	97	85	80	76	137	201	519	212	145	123
4	106	98	95	85	84	81	138	209	478	209	142	122
5	106	98	94	84	86	86	148	235	453	205	142	123
6	108	98	97	86	82	85	162	245	449	201	142	125
7	108	101	95	85	90	85	154	297	456	197	139	129
8	109	98	89	86	90	88	154	315	456	194	138	144
9	109	98	92	85	84	87	150	296	434	188	137	131
10	109	97	91	83	81	85	158	282	377	186	137	124
11	111	97	91	85	84	83	160	264	358	183	136	123
12	112	97	86	85	82	86	154	249	346	179	136	123
13	106	99	92	84	78	95	154	259	329	177	135	121
14	107	92	93	81	83	93	165	294	327	174	135	120
15	104	96	92	85	81	88	198	334	324	172	133	122
16	103	96	86	84	83	85	243	338	321	171	131	122
17	102	96	91	80	85	88	228	349	318	171	131	127
18	100	97	92	81	83	88	177	382	311	170	131	127
19	102	91	91	81	84	86	178	437	303	174	129	123
20	103	94	91	83	85	86	169	472	288	167	130	121
21	102	94	90	83	85	90	160	493	279	164	129	119
22	102	103	91	87	82	92	153	449	278	162	127	120
23	104	100	84	85	84	94	152	402	270	161	126	120
24	103	98	78	85	85	102	150	373	260	158	126	120
25	103	99	76	84	87	103	150	345	259	157	125	119
26	102	97	77	86	83	100	161	336	251	157	124	119
27	101	96	97	85	82	101	176	345	247	155	124	119
28	101	93	98	88	83	104	168	391	240	154	125	118
29	101	98	91	75	---	103	163	436	234	152	124	119
30	102	97	89	68	---	106	174	466	227	151	123	121
31	117	---	89	82	---	112	---	502	---	147	122	---
TOTAL	3263	2923	2801	2589	2340	2822	4884	10382	10459	5484	4116	3690
MEAN	105.3	97.43	90.35	83.52	83.57	91.03	162.8	334.9	348.6	176.9	132.8	123.0
MAX	117	107	98	88	90	112	243	502	542	221	146	144
MIN	100	91	76	68	78	76	119	192	227	147	122	118
AC-FT	6470	5800	5560	5140	4640	5600	9690	20590	20750	10880	8160	7320
CAL YR 2001	TOTAL 54949	MEAN 150.5	MAX 772	MIN 76	AC-FT 109000							
WTR YR 2002	TOTAL 55753	MEAN 152.7	MAX 542	MIN 68	AC-FT 110600							

BEAR RIVER BASIN

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT

LOCATION.--Lat 41°37'25", long 111°44'17", in SE¹/₄NE¹/₄NE¹/₄ sec. 8, T. 10 N., R. 2 E., Cache County, Hydrologic Unit 16010203, on right bank 1.1 mi upstream from diversion dam, and 6 mi east of Hyrum.

DRAINAGE AREA.--263 mi².

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1913 to September 1996, March 31, 2000 to current year. Monthly discharge only for October 1913, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925. WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,020 ft above NGVD of 1929, from topographic map. October 2, 1934 to May 27, 1987 at site 1,200 ft downstream at different datum. Prior to October 2, 1934, at site 200 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. A few small diversions for irrigation of about 200 acres above station. Flow is slightly regulated by powerplant above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft³/s, May 14, 1984, gage height, 7.12 ft, site and datum then in use; minimum, 4.7 ft³/s, Nov 28, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 140 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 10	1745	151	4.41	May 9	1115	157	4.45

Minimum discharge, 32 ft³/s, Aug 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	e60	57	e56	e55	e54	105	111	84	67	62	59
2	55	e55	59	e55	e55	e56	105	111	84	67	63	60
3	55	55	60	56	e54	e58	99	e109	82	66	63	61
4	56	54	58	56	e54	e61	83	111	80	67	62	61
5	55	54	58	55	54	61	89	113	79	66	61	62
6	56	54	62	55	55	60	102	118	80	64	61	62
7	56	56	58	56	56	62	99	124	79	63	60	64
8	56	56	60	56	55	60	e102	119	77	63	60	68
9	56	56	73	56	53	58	e120	119	76	65	57	63
10	58	57	54	55	54	59	e125	114	76	63	60	62
11	59	57	54	55	54	59	e118	113	75	64	59	61
12	57	58	e55	56	54	61	106	108	74	66	58	61
13	58	57	e56	56	54	64	108	103	74	65	59	60
14	57	57	58	56	55	62	114	103	74	65	59	59
15	57	56	56	56	54	e60	125	102	75	64	61	61
16	58	57	56	55	54	e60	e126	103	74	64	58	61
17	58	56	e56	55	55	e60	e111	107	70	65	58	57
18	57	56	56	55	54	e61	e104	109	72	64	59	58
19	59	55	56	54	54	e61	e103	108	72	68	58	57
20	59	56	56	55	55	e61	e99	108	71	65	58	57
21	59	58	56	55	53	62	e95	110	69	64	59	55
22	60	65	56	55	54	65	93	113	69	65	58	55
23	60	61	53	e54	55	72	92	104	68	65	58	56
24	59	59	e50	54	54	77	89	100	66	64	59	56
25	58	61	e53	54	54	74	90	96	68	64	58	55
26	59	58	e55	55	e55	79	95	93	68	65	59	56
27	59	56	57	54	55	90	109	91	70	64	58	56
28	59	56	58	56	56	98	115	90	69	62	59	55
29	58	60	55	e56	---	100	113	88	69	63	58	56
30	60	58	56	e56	---	99	108	87	68	62	60	57
31	e63	---	56	e56	---	101	---	85	---	63	60	---
TOTAL	1791	1714	1763	1714	1524	2115	3142	3270	2212	2002	1842	1771
MEAN	57.77	57.13	56.87	55.29	54.43	68.23	104.7	105.5	73.73	64.58	59.42	59.03
MAX	63	65	73	56	56	101	126	124	84	68	63	68
MIN	55	54	50	54	53	54	83	85	66	62	57	55
AC-FT	3550	3400	3500	3400	3020	4200	6230	6490	4390	3970	3650	3510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919-96, 2000-2002, BY WATER YEAR (WY)

MEAN	91.55	86.23	81.45	77.96	80.77	102.2	211.2	289.8	168.1	120.1	104.9	95.09
MAX	192	174	159	148	269	356	566	940	494	284	239	209
(WY)	1985	1985	1984	1984	1986	1986	1946	1984	1984	1984	1984	1984
MIN	42.6	41.2	40.7	42.9	43.5	47.3	63.9	58.6	49.7	45.1	40.9	40.2
(WY)	1993	1993	1991	1991	1942	1942	1931	1934	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1919-96, 2000-2002

ANNUAL TOTAL	25169	24860	
ANNUAL MEAN	68.96	68.11	126.4
HIGHEST ANNUAL MEAN			295
LOWEST ANNUAL MEAN			53.0
HIGHEST DAILY MEAN	122	126	1530
LOWEST DAILY MEAN	50	50	26
ANNUAL SEVEN-DAY MINIMUM	53	54	35
ANNUAL RUNOFF (AC-FT)	49920	49310	91550
10 PERCENT EXCEEDS	92	103	224
50 PERCENT EXCEEDS	66	60	94
90 PERCENT EXCEEDS	55	55	56
e Estimated			

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.--October 1, 2001 to September 30, 2002.

GAGE.--An 8.2-inch diameter, unheated, tipping bucket rain gage.

REMARKS.--Records good except for estimated snowfall-affected days, which are fair. Snowfall-affected data can result during the winter months when snow fills the rain gage bucket and then melts as temperatures rise. Snowfall-affected data is subject to appreciable errors. On October 28 and May 3 erroneous values were recorded and could not be estimated. May 4, 5, 6 were estimated as zero, based on the good values recorded before and after these days.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 1.38 in, Sep 7, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 1.38 in, Sep 7.

PRECIPITATION, IN INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	e1.13	0.00	---	---	---	0.05	0.13	0.00	0.00	0.00
2	0.00	0.00	0.00	e0.19	---	---	---	0.00	0.04	0.00	0.03	0.00
3	0.00	0.49	0.00	e0.19	---	---	---	---	0.00	0.00	0.00	0.00
4	0.07	0.00	0.00	e0.08	---	---	---	e0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	---	---	---	e0.00	0.00	0.00	0.00	0.00
6	0.34	0.00	0.00	0.00	---	---	---	e0.00	0.00	0.00	0.00	0.67
7	0.00	0.00	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	1.38
8	0.00	0.03	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	1.35
9	0.00	0.01	e0.70	0.00	---	---	---	0.00	0.00	0.00	0.00	0.25
10	0.00	0.00	0.00	---	---	---	---	0.03	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	---	---	---	---	0.18	0.00	0.00	0.00	0.01
12	0.00	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00
13	0.00	0.08	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	e0.01	---	---	---	---	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	---	---	---	---	0.00	0.00	0.01	0.00	0.00
17	0.01	0.00	0.00	---	---	---	---	0.00	0.06	0.00	0.00	0.92
18	0.09	0.20	0.00	---	---	---	---	0.00	0.00	0.41	0.00	0.03
19	0.00	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	---	---	---	---	0.98	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	---	---	---	---	0.16	0.18	0.01	0.00	0.00
23	0.00	0.00	0.00	---	---	---	---	0.01	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00
25	0.06	0.00	0.00	---	---	---	---	0.00	0.00	0.10	0.00	0.00
26	0.07	0.00	0.00	---	---	---	---	0.00	0.00	0.05	0.00	0.00
27	0.10	0.28	e0.01	---	---	---	---	0.00	0.00	0.00	0.00	0.00
28	---	0.47	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	e0.01	---	---	---	---	0.00	0.00	0.00	0.00	0.20
30	0.00	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.02
31	0.00	---	0.00	---	---	---	---	0.00	---	0.00	0.00	---
TOTAL	0.74	1.56	1.86	0.46	---	---	---	1.41	0.41	0.58	0.03	4.83

WTR YR 2002 TOTAL 11.88

e Estimated

10116500 CUTLER RESERVOIR NEAR COLLINSTON, UT

LOCATION.--Lat 41°50'13", long 112°02'51", in NW¹/₄/NW¹/₄/SW¹/₄ sec. 26, T. 13 N., R. 2 W., Box Elder County, Hydrologic Unit 16010202, 2 mi north of Beaver Dam, 6 mi north of Collinston.

DRAINAGE AREA. - - 6,265 mi².

PERIOD OF RECORD.--October 1927 to current year.

GAGE.--Elevation of gage is 4,000 ft, PacifiCorp datum.

REMARKS.--Records fair. New capacity table being used from October 1, 1992.

COOPERATION.--Records provided by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12930	14670	13960	11930	11280	11600	11930	11600	15020	11930	15380	15020
2	12590	13960	14310	11930	11930	11600	12590	13960	15380	11280	15380	15020
3	12590	14310	14310	11280	11280	11930	12590	14310	15020	11600	14670	14670
4	12590	13960	13960	11280	11280	11280	12590	14310	14670	11930	14310	14310
5	12930	12930	13620	11280	10650	11600	12930	14670	15020	12590	13960	14670
6	13270	14310	14310	10650	10050	10650	13960	14670	14670	12590	13960	14670
7	13620	13270	14310	10650	10050	11600	13270	15380	15020	12590	13270	14670
8	13620	13960	12930	10650	9186	11930	13270	15380	15020	12590	12590	16120
9	13620	13270	11280	10350	9467	12930	12260	15380	15020	12930	12260	14310
10	13960	12590	9467	10650	9754	12730	10970	16120	15380	13620	12260	14670
11	13960	13270	9467	10650	10350	12590	13620	15380	15020	13960	11600	16120
12	13960	13270	9467	10650	10350	11600	12590	15380	15380	14310	11930	16870
13	13960	13620	8641	10050	10650	12260	12590	14670	15020	14310	11930	15750
14	15020	13960	8910	10050	9754	13270	12590	13620	14670	14310	11930	16490
15	15020	13270	8377	10050	9754	13270	13620	14670	14310	14100	11930	15750
16	13270	13270	8119	10050	9754	13960	13620	15020	13270	13960	11930	15750
17	12930	13270	8119	10350	10970	14310	13960	15380	12260	13960	11600	16120
18	13960	13620	8377	9754	11280	11930	13960	15020	10650	13960	11280	15380
19	14670	14310	10050	9754	10350	12930	12930	15020	10050	14310	10970	16490
20	14670	12930	10350	10050	10970	11930	11280	15020	9754	14670	10970	16490
21	13960	13620	10650	10050	10970	11930	14310	15020	9186	14670	10650	16490
22	13960	13960	10650	9467	10970	12590	11930	16120	9186	15380	10650	16490
23	13620	12590	10650	10350	10970	12930	10970	15750	8910	15380	10650	16120
24	15020	12260	10650	9754	10970	13960	11280	15380	8910	15380	10650	16490
25	12590	13620	10650	10350	10970	12590	13960	13960	9467	15020	10650	15750
26	13960	13960	9467	10350	11280	13620	13960	14670	9754	14810	10650	15750
27	15020	13960	9186	10970	11930	11930	13960	15020	12260	15240	11600	15380
28	12930	13960	7866	12590	11600	10970	12590	14670	13270	15240	12590	15380
29	14310	14310	8910	10050	---	11600	12590	15020	13270	15380	13620	15380
30	15020	13960	10350	10650	---	10650	13620	14670	12930	15380	14310	15750
31	14670	---	10650	11930	---	12260	---	15380	---	15380	15020	---
MAX	15020	14670	14310	12590	11930	14310	14310	16120	15380	15380	15380	16870
MIN	12590	12260	7866	9467	9186	10650	10970	11600	8910	11280	10650	14310
(#)	4407.40	4407.30	4406.80	4407.00	4406.95	4407.05	4407.25	4407.50	4407.15	4407.50	4407.45	4407.55
(*)	+1400	-710	-3310	+1280	-330	+660	+1360	+1760	-2450	+2450	-360	+730

CAL	YR	2001.....	(*)	-3310
WTR	YR	2002.....	(*)	+2480

(#) Elevation in feet, at end of month.
(*) Change in contents, in acre-feet.

LOCATION.--Lat 41°49'51", long 112°03'24", in SE $\frac{1}{4}$ sec. 27, T. 13 N., R. 2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 3,600 ft downstream from Cutler Dam and 4 mi north of Collinston.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

REMARKS.--Records good. Canal diverts from east side of Bear River at Cutler Dam for irrigation of about 58,000 acres below station in eastern Box Elder County.

COOPERATION.--Records collected by PacifiCorp.

AVERAGE DISCHARGE.--88 years (water years 1913-81, 1983-2002), 53.2 ft³/s, 38,540 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 184 ft³/s, Jun 29, 1963, May 2, 1977; no flow at times in each year.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	33	0.00	0.00	0.00	0.00	0.00	0.00	161	164	151	136
2	24	25	0.00	0.00	0.00	0.00	0.00	0.00	164	162	151	136
3	24	18	0.00	0.00	0.00	0.00	0.00	0.00	164	162	153	136
4	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160	163	153	134
5	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	160	162	153	132
6	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	159	161	153	133
7	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	162	162	145	134
8	56	0.00	0.00	0.00	0.00	0.00	0.00	72	167	162	138	131
9	85	0.00	0.00	0.00	0.00	0.00	0.00	84	167	162	136	131
10	84	0.00	0.00	0.00	0.00	0.00	0.00	114	168	162	133	126
11	78	0.00	0.00	0.00	0.00	0.00	0.00	141	167	162	133	124
12	78	0.00	0.00	0.00	0.00	0.00	0.00	141	167	163	133	115
13	78	0.00	0.00	0.00	0.00	0.00	0.00	142	167	158	133	108
14	78	0.00	0.00	0.00	0.00	0.00	0.00	148	166	158	133	104
15	78	0.00	0.00	0.00	0.00	0.00	0.00	152	166	158	133	100
16	80	0.00	0.00	0.00	0.00	0.00	0.00	153	165	160	133	100
17	55	0.00	0.00	0.00	0.00	0.00	0.00	154	165	159	133	96
18	29	0.00	0.00	0.00	0.00	0.00	0.00	154	166	159	133	91
19	28	0.00	0.00	0.00	0.00	0.00	0.00	156	164	163	136	91
20	28	0.00	0.00	0.00	0.00	0.00	0.00	161	163	167	137	91
21	28	0.00	0.00	0.00	0.00	0.00	0.00	152	163	167	137	91
22	27	0.00	0.00	0.00	0.00	0.00	0.00	157	165	167	136	91
23	27	0.00	0.00	0.00	0.00	0.00	0.00	166	166	168	136	91
24	27	0.00	0.00	0.00	0.00	0.00	0.00	149	167	168	136	91
25	26	0.00	0.00	0.00	0.00	0.00	0.00	147	168	165	135	92
26	26	0.00	0.00	0.00	0.00	0.00	0.00	147	166	161	135	91
27	26	0.00	0.00	0.00	0.00	0.00	0.00	147	166	154	136	91
28	25	0.00	0.00	0.00	0.00	0.00	0.00	146	167	158	137	91
29	8.3	0.00	0.00	0.00	---	0.00	0.00	147	167	158	136	91
30	0.00	0.00	0.00	0.00	---	0.00	0.00	149	166	157	136	91
31	0.00	---	0.00	0.00	---	0.00	---	149	---	151	136	---
TOTAL	1227	76.00	0.00	0.00	0.00	0.00	0.00	3428	4949	5003	4299	3260
MEAN	39.59	2.533	0.000	0.000	0.000	0.000	0.000	110.6	165.0	161.4	138.7	108.7
MAX	85	33	0.00	0.00	0.00	0.00	0.00	166	168	168	153	136
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	159	151	133	91
AC-FT	2430	151	0.00	20.00	0.00	0.00	0.00	6800	9820	9920	8530	

CAL	YR	2001	TOTAL	23218	MEAN	63.61	MAX	174	MIN	0.00	AC-FT	46050
WTR	YR	2002	TOTAL	22242	MEAN	60.94	MAX	168	MIN	0.00	AC-FT	44120

BEAR RIVER BASIN

10117500 WEST SIDE CANAL NEAR COLLINSTON, UT

LOCATION.--Lat 41°49'55", 112°03'36", in SW¹/₄ sec. 27, T. 13 N., R. 2 W., Box Elder County, Hydrologic Unit 16010204, on left bank 4,200 ft downstream from Cutler Dam and 4 mi north of Collinston.

PERIOD OF RECORD.--June 1912 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

REMARKS.--Records good. Canal diverts from west side of Bear River at Cutler Dam for irrigation of about 58,000 acres below station in eastern Box Elder County.

COOPERATION.--Records collected by PacifiCorp.

AVERAGE DISCHARGE.--88 years (water years 1913-81, 1983-2002), 255 ft³/s, 184,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 787 ft³/s, Jun 23, 1986; no flow for periods in every year except 1914.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	299	145	0.00	0.00	0.00	0.00	0.00	0.00	738	733	636	603
2	290	144	0.00	0.00	0.00	0.00	0.00	2.8	738	736	619	601
3	274	144	0.00	0.00	0.00	0.00	0.00	338	730	738	599	604
4	267	144	0.00	0.00	0.00	0.00	0.00	426	730	734	584	604
5	265	144	0.00	0.00	0.00	0.00	0.00	426	712	728	572	602
6	265	144	0.00	0.00	0.00	0.00	0.00	424	694	716	572	603
7	265	143	0.00	0.00	0.00	0.00	0.00	424	692	712	573	599
8	260	143	0.00	0.00	0.00	0.00	0.00	424	690	710	579	601
9	257	143	0.00	0.00	0.00	0.00	0.00	426	682	703	581	544
10	257	143	0.00	0.00	0.00	0.00	0.00	500	672	694	584	449
11	257	143	0.00	0.00	0.00	0.00	0.00	567	688	697	583	393
12	257	142	0.00	0.00	0.00	0.00	0.00	574	689	699	584	394
13	255	142	0.00	0.00	0.00	0.00	0.00	598	687	699	584	391
14	255	134	0.00	0.00	0.00	0.00	0.00	624	687	699	583	363
15	253	133	0.00	0.00	0.00	0.00	0.00	650	714	699	592	338
16	256	132	0.00	0.00	0.00	0.00	0.00	667	734	690	597	341
17	223	130	0.00	0.00	0.00	0.00	0.00	665	735	690	597	349
18	180	129	0.00	0.00	0.00	0.00	0.00	667	727	692	597	337
19	178	127	0.00	0.00	0.00	0.00	0.00	669	729	690	592	339
20	165	0.00	0.00	0.00	0.00	0.00	0.00	670	731	682	594	342
21	150	0.00	0.00	0.00	0.00	0.00	0.00	608	731	686	594	341
22	146	0.00	0.00	0.00	0.00	0.00	0.00	557	730	688	594	338
23	146	0.00	0.00	0.00	0.00	0.00	0.00	534	722	688	590	341
24	150	0.00	0.00	0.00	0.00	0.00	0.00	532	722	686	595	341
25	148	0.00	0.00	0.00	0.00	0.00	0.00	584	724	688	603	342
26	147	0.00	0.00	0.00	0.00	0.00	0.00	628	732	675	607	340
27	145	0.00	0.00	0.00	0.00	0.00	0.00	628	731	667	608	340
28	144	0.00	0.00	0.00	0.00	0.00	0.00	663	733	671	608	341
29	145	0.00	0.00	0.00	---	0.00	0.00	702	733	671	608	341
30	145	0.00	0.00	0.00	---	0.00	0.00	725	733	677	604	342
31	145	---	0.00	0.00	---	0.00	---	741	---	667	602	---
TOTAL	6589	2649.00	0.00	0.00	0.00	0.00	0.00	16643.80	21490	21605	18415	12804
MEAN	212.5	88.30	0.000	0.000	0.000	0.000	0.000	536.9	716.3	696.9	594.0	426.8
MAX	299	145	0.00	0.00	0.00	0.00	0.00	741	738	738	636	604
MIN	144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	672	667	572	337
AC-FT	13070	5250	0.00	0.00	0.00	0.00	0.00	33010	42630	42850	36530	25400
CAL YR 2001	TOTAL	102995.00	MEAN	282.2	MAX	748	MIN	0.00	AC-FT	204300		
WTR YR 2002	TOTAL	100195.80	MEAN	274.5	MAX	741	MIN	0.00	AC-FT	198700		

10118000 BEAR RIVER NEAR COLLINSTON, UT

LOCATION.--Lat 41°50'03", long 112°03'16", in NW¹/₄SE¹/₄ sec. 27, T. 13 N., R. 2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 800 ft downstream from Cutler plant of Utah Power & Light Co., 2,000 ft downstream from Cutler Dam, and 5.5 mi north of Collinston.

DRAINAGE AREA.--6,267 mi².

PERIOD OF RECORD.--July 1889 to current year. Published as "at Collinston" prior to 1900. Monthly discharge only for some periods, published in WSP 1314.

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

GAGE.--Water-stage recorder. Datum of gage is 4,276.13 ft above NGVD of 1929 (levels by Bureau of Reclamation). Prior to November 8, 1913, nonrecording gage, and November 8, 1913 to September 10, 1938, water-stage recorder, at site 0.8 mi downstream at different datums.

REMARKS.--Records good. Natural flow of stream affected by storage reservoir, power developments and diversions for irrigation.

COOPERATION.--Records collected by PacifiCorp, under general supervision of the U. S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,700 ft³/s, Feb 20, 1986, gage height, 8.68 ft; minimum daily, 10 ft³/s, Aug. 4-12, 18-23, 1905; practically no flow at 2400 Aug 5, 1920.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	855	198	517	358	412	800	650	224	34	25	25
2	25	40	626	527	482	416	585	546	356	34	25	25
3	25	177	598	485	1470	435	1270	285	131	34	25	25
4	25	1210	716	510	1470	412	988	779	348	32	25	25
5	25	27	419	547	1470	430	1680	135	323	32	25	25
6	25	37	679	568	1470	319	1430	397	180	32	25	25
7	25	642	706	443	1510	421	1420	235	109	31	25	25
8	25	429	822	477	550	509	1380	864	78	31	25	416
9	25	385	728	523	370	444	1430	402	76	31	25	351
10	25	208	671	554	374	739	413	314	150	30	25	64
11	25	224	333	516	433	700	810	354	96	30	25	25
12	25	27	492	475	405	632	999	302	54	30	25	478
13	25	438	263	464	476	733	565	255	66	29	25	25
14	25	434	563	597	418	707	709	127	38	28	25	192
15	545	161	564	509	418	787	486	64	38	28	25	25
16	102	264	418	477	404	815	1410	137	37	27	25	42
17	25	336	502	528	409	815	937	152	37	27	25	41
18	25	30	100	428	436	1490	968	75	37	27	25	90
19	347	619	335	461	409	479	1940	55	36	26	25	64
20	26	242	342	511	336	1180	666	101	36	26	25	145
21	499	274	508	422	664	873	660	184	36	26	25	274
22	253	356	462	412	542	910	938	629	35	26	25	118
23	25	187	433	815	356	911	613	847	35	25	25	25
24	473	438	423	858	490	1270	487	414	34	25	25	25
25	125	342	391	288	445	2520	524	716	34	25	25	158
26	25	412	823	311	422	1590	712	69	34	25	25	25
27	319	455	1050	330	440	1710	1250	196	34	25	25	25
28	186	136	311	546	454	676	786	117	36	25	25	25
29	25	471	338	371	---	1420	620	52	35	25	25	25
30	204	255	438	751	---	941	707	101	35	25	25	25
31	201	---	235	1220	---	989	---	55	---	25	25	---
TOTAL	3755	10111	15487	16441	17481	26685	28183	9609	2798	876	775	2858
MEAN	121.1	337.0	499.6	530.4	624.3	860.8	939.4	310.0	93.27	28.26	25.00	95.27
MAX	545	1210	1050	1220	1510	2520	1940	864	356	34	25	478
MIN	25	27	100	288	336	319	413	52	34	25	25	25
AC-FT	7450	20060	30720	32610	34670	52930	55900	19060	5550	1740	1540	5670
CAL YR 2001	TOTAL	133972	MEAN	367	MAX	1850	MIN	24	AC-FT	265700		
WTR YR 2002	TOTAL	135059	MEAN	370	MAX	2520	MIN	25	AC-FT	267900		

BEAR RIVER BASIN

10126000 BEAR RIVER NEAR CORINNE, UT

LOCATION.--Lat 41°34'35", long 112°06'00", in NE¹/₄SE¹/₄NE¹/₄ sec. 30, T. 10 N., R. 2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 1.2 mi downstream from Salt Creek, 2.0 mi northeast of Corinne, and 2.8 mi downstream from Malad River.

DRAINAGE AREA.--7,029 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1949 to September 1957, October 1963 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 4,204.6 ft above NGVD of 1929, unadjusted. Auxiliary nonrecording gage 7,800 ft downstream July 27, 1950 to November 21, 1955.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,770 ft³/s, May 19, 1984, gage height, 17.50 ft; minimum daily discharge, 47 ft³/s, Aug 25, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,750 ft³/s, Mar 26, gage height, 8.89 ft; minimum daily discharge, 54 ft³/s, Aug 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	933	887	1060	e940	1130	1810	1160	232	99	80	60
2	153	635	875	1040	e930	965	1530	1130	357	93	80	63
3	169	324	1160	1310	e930	895	1070	1010	512	92	78	63
4	183	338	1310	1290	e910	895	1650	770	533	90	83	64
5	194	754	1340	1240	e915	890	1690	992	576	89	79	64
6	179	313	1180	1370	e880	863	1940	585	592	86	74	69
7	161	159	1290	1380	e865	848	1950	743	548	84	76	90
8	139	573	1410	1260	e865	736	1950	583	378	83	72	156
9	124	550	1490	1210	e895	856	1900	1010	271	80	70	482
10	103	628	1520	1200	e900	805	1840	927	242	79	70	815
11	85	514	1760	1280	e900	978	1200	858	288	79	70	530
12	73	464	1550	1230	e910	1020	1280	687	351	80	70	317
13	73	263	1540	1180	e920	1060	1550	675	267	79	69	554
14	79	536	1380	1140	e940	1030	1280	624	233	78	73	493
15	80	e575	1310	1210	e950	1020	1260	458	217	e78	71	404
16	306	e600	1430	1270	e975	1090	1300	248	192	e79	68	387
17	303	e640	e1350	1190	e980	1120	1690	306	175	e80	63	276
18	141	e660	e1290	1210	e990	1270	1790	273	160	e81	61	303
19	107	e700	985	1140	e990	1320	1710	285	e155	e82	59	399
20	321	734	808	1140	e1000	995	2110	220	140	82	60	305
21	259	754	957	1190	1030	1230	1450	271	123	82	58	380
22	527	665	1160	1220	1230	1250	1490	474	117	83	56	553
23	349	682	1100	1120	1350	1310	1570	901	110	75	55	495
24	264	717	1070	1280	1040	1680	1320	1110	107	79	54	386
25	441	907	1100	1180	1040	2240	1120	829	103	85	56	253
26	430	756	1130	1020	1020	2430	1180	942	103	79	58	362
27	171	857	1140	999	959	2390	1450	416	104	78	58	304
28	385	901	1120	e980	905	2350	1870	427	99	77	58	215
29	483	713	1110	e965	---	1830	1570	361	100	80	60	177
30	246	1030	910	e960	---	2080	1160	231	99	77	60	157
31	566	---	1130	e945	---	1730	---	214	---	81	61	---
TOTAL	7225	18875	37792	36209	27159	40306	46680	19720	7484	2549	2060	9176
MEAN	233.1	629.2	1219	1168	970.0	1300	1556	636.1	249.5	82.23	66.45	305.9
MAX	566	1030	1760	1380	1350	2430	2110	1160	592	99	83	815
MIN	73	159	808	945	865	736	1070	214	99	75	54	60
AC-FT	14330	37440	74960	71820	53870	79950	92590	39110	14840	5060	4090	18200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950-57, 1964-2002, BY WATER YEAR (WY)

	MEAN	1380	1653	1717	1839	1877	2352	2873	2953	2250	741.8	642.9	943.7
MAX	4240	4471	4414	3639	5966	6041	7258	9598	9201	4186	3045	3423	
(WY)	1984	1985	1984	1984	1986	1986	1985	1984	1984	1983	1983	1984	
MIN	95.6	621	535	620	723	913	638	71.8	77.6	72.3	55.2	62.2	
(WY)	1993	2001	1995	1993	1993	1991	1992	1992	1992	1994	1992	1992	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1950-57, 1964-2002

ANNUAL TOTAL	236704	255235	
ANNUAL MEAN	648.5	699.3	
HIGHEST ANNUAL MEAN			1766
LOWEST ANNUAL MEAN			5050
HIGHEST DAILY MEAN	2200	2430	14300
LOWEST DAILY MEAN	53	54	47
ANNUAL SEVEN-DAY MINIMUM	62	56	50
ANNUAL RUNOFF (AC-FT)	469500	506300	1279000
10 PERCENT EXCEEDS	1530	1380	3660
50 PERCENT EXCEEDS	514	640	1430
90 PERCENT EXCEEDS	76	77	130

e Estimated

10128500 WEBER RIVER NEAR OAKLEY, UT

LOCATION.--Lat 40°44'14", long 111°14'50", in NW¹/₄SE¹/₄NE¹/₄ sec. 15, T. 1 S., R. 6 E., Summit County, Hydrologic Unit 16020101, on right bank 1.5 mi downstream from South Fork, 2.2 mi upstream from Weber-Provo diversion canal, and 3.2 mi northeast of Oakley.

DRAINAGE AREA.--162 mi².

PERIOD OF RECORD.--October 1904 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 790: 1934. WSP 1394: 1907-09, 1911-12, 1921-22. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,640 ft above NGVD of 1929, from topographic map. Prior to October 25, 1933, staff gage at site 0.2 mi downstream at different datum. October 25, 1933 to August 29, 1955, water-stage recorder at present site at datum 0.5 ft higher. August 29, 1955 to October 27, 1981 at present site at different datum. October 27, 1981 to July 21, 1993 at site 0.3 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several small diversions for irrigation above station. Flow slightly regulated by several small lakes on headwaters and a small reservoir on Smith and Morehouse Creek. Total capacity of lakes and reservoir, 10,750 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,170 ft³/s, Jun 13, 1921, gage height, 9.0 ft, site and datum then in use, from rating curve extended above 2,000 ft³/s; minimum observed, 15 ft³/s, Dec 9, 1977, minimum discharge, 15 ft³/s, Dec 15, 1990, Feb 27, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 31	0020	*1,110	*3.03				

Minimum daily discharge 22 ft³/s, Nov 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	e46	e26	e36	e36	e42	75	262	956	107	93	44
2	46	e38	e28	e34	e38	e40	86	246	840	114	93	44
3	45	e32	e31	e33	e39	e37	92	257	640	133	92	44
4	45	e38	e29	e36	e42	e43	98	267	558	133	89	48
5	45	e33	e30	e35	e39	e41	111	295	553	e130	89	48
6	45	e36	e32	e35	e41	e43	115	322	555	e130	87	49
7	45	e41	e30	e32	e45	e46	117	391	552	128	84	66
8	45	e46	e33	e34	e40	e43	124	408	515	123	82	67
9	58	e43	e33	e35	e46	e44	135	398	462	120	81	66
10	54	e43	e32	e32	e44	e45	154	380	397	126	79	57
11	52	e40	e33	e35	e43	e43	150	345	337	129	76	54
12	53	e43	e31	e35	e43	e45	149	319	291	125	74	59
13	51	e43	e34	e31	e44	e44	159	328	273	120	74	65
14	51	e36	e32	e27	e43	e44	181	396	269	115	73	60
15	51	e40	e35	e29	e45	e42	205	478	264	115	72	55
16	50	e34	e34	e30	e42	e46	214	547	249	117	69	54
17	50	e37	e35	e29	e45	e45	190	601	232	121	67	70
18	50	e36	e35	e30	e44	e44	174	692	216	126	67	94
19	50	e35	e33	e33	e43	e42	171	814	209	120	66	96
20	50	e27	e33	e33	e44	e43	164	889	202	118	65	86
21	50	e32	e34	e32	e43	e43	156	874	190	114	65	79
22	50	e30	e35	e34	e44	e46	153	617	176	109	66	72
23	50	e28	e34	e29	e46	e48	164	505	165	109	65	68
24	51	e23	e35	e31	e44	e46	177	440	154	107	65	64
25	50	e24	e33	e34	e42	e44	182	393	147	107	65	63
26	50	e28	e32	e38	e40	e46	196	386	144	106	63	62
27	50	e25	e34	e37	e42	55	211	461	133	104	63	59
28	50	e22	e34	e37	e43	57	195	602	120	103	62	59
29	50	e24	e35	e34	---	59	196	780	115	99	62	61
30	51	e29	e36	e34	---	62	228	889	110	97	61	60
31	e45	---	e35	e34	---	67	---	984	---	95	47	---
TOTAL	1529	1032	1016	1028	1190	1435	4722	15566	10024	3600	2256	1873
MEAN	49.32	34.40	32.77	33.16	42.50	46.29	157.4	502.1	334.1	116.1	72.77	62.43
MAX	58	46	36	38	46	67	228	984	956	133	93	96
MIN	45	22	26	27	36	37	75	246	110	95	47	44
AC-FT	3030	2050	2020	2040	2360	2850	9370	30880	19880	7140	4470	3720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2002, BY WATER YEAR (WY)

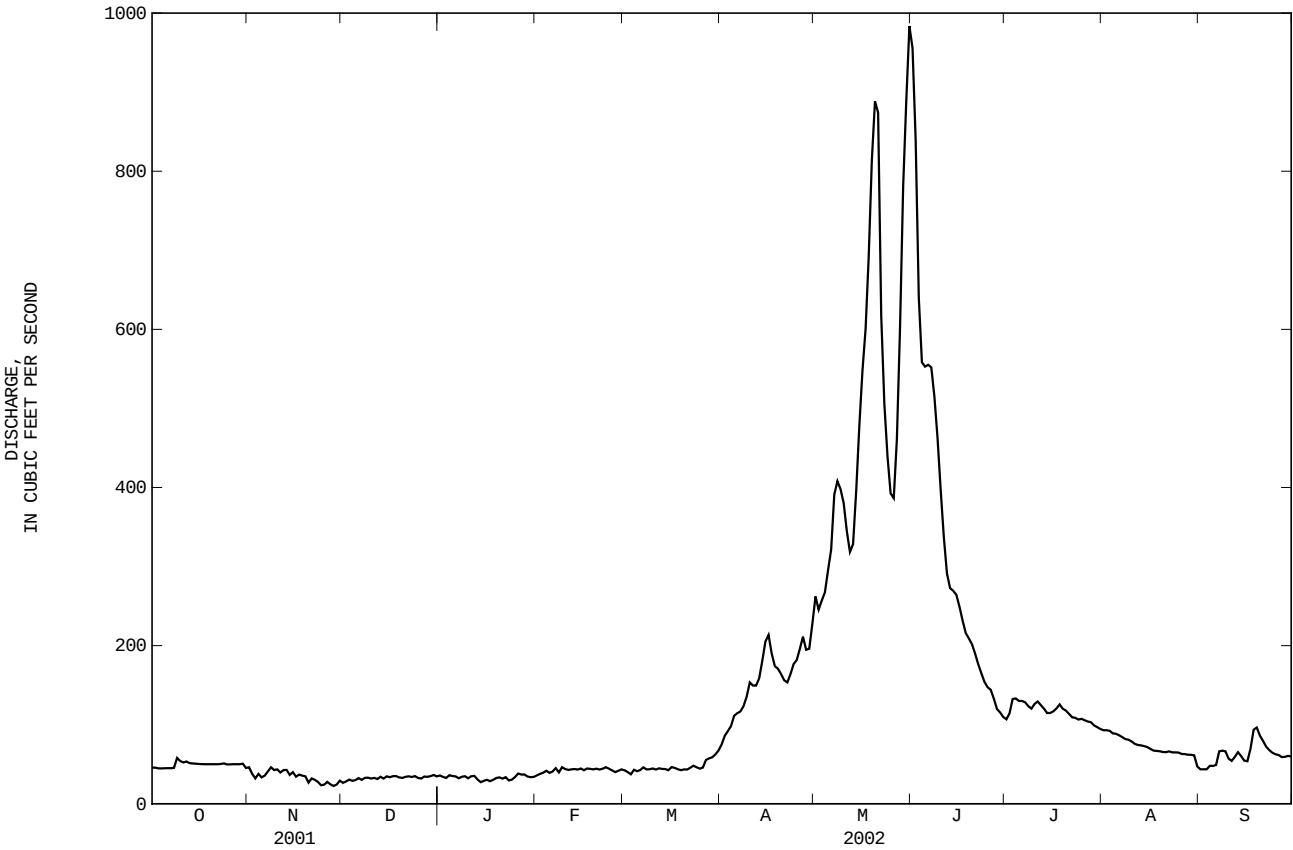
MEAN	79.93	69.73	60.54	56.25	56.54	67.36	177.9	684.1	905.8	265.1	114.3	85.45
MAX	202	122	105	91.2	86.1	181	515	1279	2178	1486	259	199
(WY)	1983	1913	1984	1984	1915	1986	1910	1914	1909	1907	1983	1983
MIN	33.8	34.4	28.8	33.2	35.0	35.9	64.2	170	81.0	41.7	34.4	32.9
(WY)	1993	2002	1978	2002	1964	1977	1975	1977	1934	1934	1934	1934

WEBER RIVER BASIN

10128500 WEBER RIVER NEAR OAKLEY, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1905 - 2002	
ANNUAL TOTAL	48651		45271		218.8	
ANNUAL MEAN	133.3		124.0		415	
HIGHEST ANNUAL MEAN					77.4	
LOWEST ANNUAL MEAN					4170	
HIGHEST DAILY MEAN	1540	May 16	984	May 31	20	Jun 13 1921
LOWEST DAILY MEAN	22	Nov 28	22	Nov 28	23	Dec 1 1977
ANNUAL SEVEN-DAY MINIMUM	25	Nov 23	25	Nov 23	23	Nov 30 1977
ANNUAL RUNOFF (AC-FT)	96500		89800		158500	
10 PERCENT EXCEEDS	286		320		619	
50 PERCENT EXCEEDS	56		54		80	
90 PERCENT EXCEEDS	34		33		48	

e Estimated



10129500 WEBER RIVER NEAR WANSHIP, UT

LOCATION.--Lat 40°47'34", Long 111°24'15", in SE¹/₄SE¹/₄NE¹/₄ sec. 29, T. 1 N., R. 5 E., Summit County, Hydrologic Unit 16020101, on left bank 0.1 mi downstream from Wanship Dam, 1.2 mi south of Wanship, and 1.25 mi upstream from Silver Creek.

DRAINAGE AREA.--335 mi².

PERIOD OF RECORD.--October 1950 to September 1955, April 1957 to September 1960, October 1988 to current year. Monthly discharges only April 1957 to September 1960, published in WSP 1734.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 5,900 ft above NGVD of 1929, from topographic map. November 17, 1950, to September 30, 1955, water-stage recorder at site 200 ft upstream at different datum.

REMARKS.--Records good. Flow completely regulated by Wanship Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,340 ft³/s, May 30, 1951, gage height, 4.73 ft, site and datum then in use; minimum daily, 0.1 ft³/s, Nov 17-22, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 224 ft³/s, Jun 10, 11, 12; minimum daily discharge, 28 ft³/s, Mar 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	32	35	35	30	29	32	33	116	190	217	192
2	107	32	35	34	32	29	33	33	121	190	215	189
3	107	32	35	33	32	29	33	33	125	188	215	139
4	105	32	35	32	32	29	33	33	128	192	216	101
5	107	32	36	32	32	28	33	33	127	193	217	95
6	110	32	36	31	32	29	33	33	124	163	215	95
7	108	33	36	30	32	29	33	34	126	124	215	98
8	109	32	35	30	35	29	33	34	128	128	215	96
9	58	32	33	30	35	29	33	34	187	163	215	92
10	30	32	33	31	35	29	33	35	224	193	217	94
11	30	33	33	30	35	29	32	35	224	193	219	93
12	30	33	33	29	36	29	32	34	224	192	219	76
13	29	33	34	29	36	29	32	34	214	197	209	64
14	29	33	34	29	36	29	32	34	201	197	212	64
15	29	35	33	29	36	29	33	34	198	198	213	63
16	29	35	34	29	36	29	33	34	194	203	211	64
17	29	35	32	29	36	29	33	34	196	207	217	64
18	29	35	33	29	34	30	33	35	195	210	219	68
19	29	35	34	29	32	30	33	34	195	214	218	64
20	29	35	34	29	30	30	33	34	200	214	210	67
21	29	35	34	29	30	31	33	35	198	212	212	67
22	30	36	35	29	29	32	32	35	198	213	209	64
23	30	36	35	29	29	32	33	66	199	192	196	64
24	30	36	35	29	29	32	33	105	193	203	187	63
25	30	36	33	29	29	32	33	104	189	209	181	62
26	30	36	33	29	29	32	33	101	191	208	178	64
27	30	36	33	29	29	35	33	102	190	211	175	66
28	30	36	34	29	29	36	33	102	190	213	164	65
29	30	36	35	29	---	36	33	104	192	216	160	65
30	31	35	35	29	---	35	33	107	191	217	191	67
31	32	---	35	29	---	32	---	112	---	216	194	---
TOTAL	1575	1021	1060	928	907	947	984	1650	5378	6059	6351	2525
MEAN	50.81	34.03	34.19	29.94	32.39	30.55	32.80	53.23	179.3	195.5	204.9	84.17
MAX	110	36	36	35	36	36	33	112	224	217	219	192
MIN	29	32	32	29	29	28	33	33	116	124	160	62
AC-FT	3120	2030	2100	1840	1800	1880	1950	3270	10670	12020	12600	5010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-55, 1958, 1989-2002, BY WATER YEAR (WY)

	1951-55	1958	1989-2002	1951-55	1958	1989-2002	1951-55	1958	1989-2002	1951-55	1958	1989-2002
MEAN	156.7	135.5	122.1	83.68	90.47	111.4	145.7	252.4	482.8	279.0	219.0	186.0
MAX	209	211	258	213	220	279	440	743	1295	846	333	288
(WY)	1994	1998	1958	1997	1997	1997	1958	1997	1995	1995	1989	1958
MIN	23.3	23.2	22.5	23.0	15.8	24.6	23.4	53.2	137	120	175	84.2
(WY)	1993	1993	1995	1993	1991	2001	2001	2002	1989	1958	1999	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1951-55, 1958, 1989-2002

ANNUAL TOTAL	36270	29385										
ANNUAL MEAN	99.37	80.51										
HIGHEST ANNUAL MEAN										189.0		
LOWEST ANNUAL MEAN										314		1997
HIGHEST DAILY MEAN	210	Jul 31	224	Jun 10	1610	Jun 18	1995			80.5		2002
LOWEST DAILY MEAN	22	Mar 11	28	Mar 5	0.10	Nov 17	1957					
ANNUAL SEVEN-DAY MINIMUM	22	Apr 4	29	Feb 27	0.11	Nov 16	1957					
ANNUAL RUNOFF (AC-FT)	71940		58290		136900							
10 PERCENT EXCEEDS	199		209		303							
50 PERCENT EXCEEDS	76		35		179							
90 PERCENT EXCEEDS	24		29		27							

10129900 SILVER CREEK NEAR SILVER CREEK JUNCTION, UT

LOCATION.--Lat 40°44'07", Long 111°28'31", in SW¹/₄SE¹/₄NE¹/₄ sec. 15, T. 1 S., R. 4 E., Summit County, Hydrologic Unit 16020101, on left bank 1.2 mi east of Silver Creek Junction, and 7 mi northeast of Park City.

DRAINAGE AREA.--17.4 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 6,470 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70 ft³/s, Mar 31, 2002, gage height, 6.39 ft; minimum daily discharge 1.6 ft³/s, Oct 1-4, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 70 ft³/s, Mar 31; minimum daily discharge, 1.6 ft³/s, Oct 1-4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.6	3.7	2.6	e3.4	3.2	2.4	46	3.6	2.6	2.5	2.7	2.3
2	e1.6	3.1	2.5	e3.5	3.1	2.3	43	3.5	3.6	2.5	2.8	2.2
3	e1.6	3.0	2.4	e3.5	2.8	2.2	32	3.5	3.5	2.5	2.9	2.1
4	1.6	2.7	2.4	e3.6	2.7	2.3	22	3.6	2.7	2.7	2.9	2.1
5	1.7	2.6	2.5	e3.7	2.6	2.3	17	3.3	2.5	2.8	2.7	2.0
6	1.8	2.5	2.7	e3.8	2.5	2.4	14	3.3	2.3	2.7	2.8	2.1
7	1.9	3.1	2.9	e3.9	2.6	2.7	11	3.7	2.4	2.6	2.9	2.2
8	1.8	3.2	3.3	e4.0	2.8	2.1	9.4	5.3	2.2	2.5	2.9	2.2
9	1.8	2.7	3.3	4.1	3.0	2.7	7.8	5.8	2.2	2.5	2.9	2.0
10	1.7	2.7	3.1	4.3	3.2	3.0	7.8	6.8	2.2	2.5	3.0	2.0
11	1.8	2.5	3.2	4.7	3.2	2.8	7.4	9.2	2.2	2.4	3.2	2.0
12	1.8	2.5	2.7	4.9	3.1	3.0	7.0	7.9	2.2	2.5	3.0	2.0
13	1.9	2.5	2.5	4.6	3.0	3.2	6.0	6.7	2.1	2.6	3.1	2.0
14	1.8	2.8	2.7	4.4	3.3	3.2	5.6	4.2	2.1	2.4	2.8	2.2
15	1.7	2.7	2.5	4.1	3.6	3.4	6.5	4.1	2.1	2.3	2.9	2.1
16	1.8	2.5	2.5	3.9	3.8	3.6	7.7	3.4	2.0	2.3	2.9	2.2
17	1.9	2.8	2.4	3.8	3.6	3.6	7.6	3.4	2.0	2.3	3.0	2.1
18	1.8	2.8	2.4	3.9	3.6	3.7	8.2	3.3	2.0	2.3	2.8	2.2
19	1.9	2.7	2.6	4.1	3.2	3.7	8.9	2.9	2.1	2.4	2.6	2.1
20	2.0	2.6	2.6	4.0	3.1	e4.2	10	2.7	2.1	2.4	2.5	2.1
21	1.9	2.7	2.6	3.8	3.0	e4.8	10	3.6	2.3	2.4	2.5	2.2
22	1.9	4.8	2.7	3.2	3.1	5.1	7.2	7.0	2.4	2.4	2.4	2.0
23	2.1	5.8	2.8	3.6	3.1	5.5	6.9	6.5	2.3	2.5	2.4	2.0
24	2.0	4.1	2.8	2.9	2.8	6.2	7.5	3.9	2.3	2.5	2.5	2.1
25	2.0	2.4	e2.9	2.9	2.4	7.9	7.7	3.4	2.4	2.7	2.4	2.0
26	2.1	2.6	e2.9	3.0	2.5	11	6.8	4.0	2.4	2.8	2.3	2.0
27	2.1	2.7	e3.0	3.0	2.4	14	5.7	3.7	2.3	2.8	2.2	2.0
28	2.1	2.9	e3.1	3.0	e2.4	17	5.6	3.6	2.4	2.7	2.2	2.1
29	2.1	15	e3.1	3.0	---	25	4.7	3.1	2.5	2.6	2.2	2.0
30	2.3	2.4	e3.2	3.1	---	38	4.1	2.6	2.4	2.6	2.2	1.9
31	4.2	---	e3.3	3.2	---	43	---	2.7	---	2.7	2.3	---
MEAN	1.945	3.370	2.781	3.706	2.989	7.623	11.70	4.332	2.360	2.529	2.674	2.083
MAX	4.2	15	3.3	4.9	3.8	43	46	9.2	3.6	2.8	3.2	2.3
MIN	1.6	2.4	2.4	2.9	2.4	2.1	4.1	2.6	2.0	2.3	2.2	1.9

WTR YR 2002 MEAN 4.007 MAX 46 MIN 1.6

e Estimated

10129900 SILVER CREEK NEAR SILVER CREEK JUNCTION, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2001 to September 30, 2002.

PERIOD OF DAILY RECORD. --

DISSOLVED OXYGEN: October 2001 to September 30, 2002.

PH: October 2001 to September 30, 2002.

SPECIFIC CONDUCTANCE: October 2001 to September 30, 2002.

WATER TEMPERATURE: October 2001 to September 30, 2002.

INSTRUMENTATION.--Water quality monitor from October 2001 to September 30, 2002.

REMARKS.--Dissolved oxygen records fair. PH, specific conductance, and temperature records good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: Maximum, 10.8 mg/L, May 23, 2002; minimum, 1.0 mg/L, Aug 26, 2002.

PH: Maximum, 7.9 units, several days in Apr, Jun, Jul, Aug, Sep, 2002; minimum, 6.8 units, Aug 27-31, Sep 2, 3, 2002.

SPECIFIC CONDUCTANCE: Maximum, 2,130 microsiemens, Dec 2, 2001; minimum, 644 microsiemens, Mar 31, 2002.

WATER TEMPERATURE: Maximum, 21.6°C, Aug 10, 2002; minimum, 0.0°C, Nov 29, 2001, Apr 2, 2002.

EXTREMES FOR CURRENT YEAR. - -

DISSOLVED OXYGEN: Maximum, 10.8 mg/L, May 23; minimum, 1.0 mg/L, Aug 26.

PH: Maximum, 7.9 units, several days in Apr, Jun, Jul, Aug, Sep; minimum, 6.8 units, Aug 27-31, Sep 2, 3.

SPECIFIC CONDUCTANCE: Maximum, 2,130 microsiemens, Dec 2; minimum, 644 microsiemens, Mar 31.

WATER TEMPERATURE: Maximum, 21.6°C, Aug 10; minimum, 0.0°C, Nov 29, Apr 2.

OXYGEN DISSOLVED, IN MG/L, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

[illegible]

WEBER RIVER BASIN

10129900 SILVER CREEK NEAR SILVER CREEK JUNCTION, UT--Continued

OXYGEN DISSOLVED, IN MG/L, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	8.8	7.8	8.2	9.3	7.8	8.3	9.1	7.6	8.5	9.7	6.5	7.9
2	8.7	7.8	8.2	9.3	7.7	8.4	9.0	7.7	8.4	9.9	6.9	8.3
3	8.9	7.8	8.2	9.3	7.7	8.3	8.9	7.2	8.2	9.7	6.8	8.1
4	9.1	7.9	8.3	9.1	7.3	8.0	9.0	6.3	7.8	9.8	6.6	8.2
5	9.1	7.9	8.4	9.1	7.0	7.9	8.9	6.0	7.4	9.3	6.6	7.8
6	9.3	7.9	8.4	9.4	7.4	8.2	8.6	6.2	7.2	8.8	6.4	7.9
7	9.4	7.9	8.4	9.5	7.2	8.0	8.8	6.3	7.5	9.6	6.6	8.1
8	9.2	7.8	8.2	9.0	7.0	7.8	9.2	6.5	7.7	10.2	7.2	8.6
9	8.5	7.2	7.8	9.0	7.0	7.8	9.1	6.4	7.6	10.3	6.7	8.5
10	8.4	7.2	7.8	8.5	7.1	7.6	8.8	6.1	7.3	9.7	6.6	8.1
11	8.6	6.9	7.7	8.4	7.0	7.6	9.1	6.2	7.3	10.3	7.6	8.6
12	8.2	7.2	7.6	8.2	6.7	7.5	8.9	6.0	7.3	10.4	6.1	8.5
13	8.6	7.3	7.8	8.0	6.5	7.1	8.9	5.9	7.2	10.1	6.1	7.9
14	8.5	7.1	7.8	7.9	6.6	7.1	8.7	5.5	6.8	9.6	6.1	7.7
15	8.7	7.3	7.9	7.8	6.5	7.1	7.8	5.3	6.5	9.4	6.3	7.7
16	8.7	7.2	7.9	7.9	6.4	7.0	9.1	6.3	7.5	9.5	6.1	7.7
17	8.6	7.3	8.0	7.6	6.5	6.9	9.1	6.4	7.7	9.8	6.6	8.2
18	---	---	---	7.7	6.6	7.0	9.0	6.8	7.8	9.8	6.4	8.0
19	---	7.1	---	7.7	6.6	7.1	9.0	6.8	7.8	9.8	6.5	8.1
20	8.8	7.2	7.8	8.2	6.9	7.3	9.4	6.9	8.1	9.9	6.3	7.9
21	8.8	7.4	7.9	8.4	7.3	7.8	9.4	6.4	8.0	9.7	6.3	7.9
22	8.7	7.4	8.0	7.9	6.9	7.4	9.3	6.3	7.7	10.6	7.4	8.9
23	8.6	7.3	7.9	8.0	6.9	7.4	9.1	6.3	7.5	10.8	7.2	8.9
24	9.0	7.5	8.0	7.9	7.1	7.4	9.4	6.6	7.8	10.4	7.0	8.5
25	9.0	7.3	8.2	8.2	7.2	7.6	9.1	6.6	7.7	10.3	7.0	8.4
26	9.2	7.9	8.4	7.9	7.4	7.6	9.2	6.1	7.7	10.3	6.6	8.2
27	9.2	7.7	8.4	7.9	7.6	7.8	9.2	6.1	7.6	10.5	6.4	8.1
28	9.3	7.7	8.3	8.2	7.7	8.1	9.3	6.7	7.8	10.5	6.3	7.9
29	---	---	---	8.6	8.1	8.3	9.7	6.6	8.1	10.0	5.9	7.6
30	---	---	---	8.8	8.3	8.6	9.5	6.4	7.8	9.7	5.1	7.4
31	---	---	---	8.9	7.8	8.6	---	---	---	9.7	5.7	7.6
MONTH	---	---	---	9.5	6.4	7.7	9.7	5.3	7.6	10.8	5.1	8.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	9.5	5.3	7.2	10.4	5.2	7.3	9.0	3.6	5.3	7.9	2.4	4.6
2	8.7	5.9	7.0	10.5	4.5	7.2	8.4	2.9	4.8	8.0	1.7	4.3
3	9.4	5.9	7.5	10.6	4.1	6.6	7.3	3.1	5.4	8.2	2.4	4.4
4	9.7	5.7	7.5	9.8	3.7	6.7	7.4	3.7	5.5	8.2	2.3	4.5
5	9.9	5.5	7.4	9.8	3.7	6.4	8.1	3.9	5.9	7.9	2.4	4.4
6	9.8	5.1	7.2	9.8	3.8	6.3	7.9	3.2	5.6	5.7	2.4	3.8
7	9.6	5.1	7.0	9.9	4.0	6.8	8.3	4.1	6.0	6.6	2.9	4.4
8	9.7	4.6	7.0	10.2	3.8	6.8	8.2	3.7	5.9	7.5	3.1	4.6
9	10.2	5.2	7.1	10.0	4.2	7.0	10.7	4.4	6.4	8.3	3.2	5.2
10	10.1	5.6	7.7	9.8	4.3	6.9	10.3	4.2	6.2	8.2	3.0	5.3
11	9.9	5.7	7.7	9.6	4.3	6.8	8.2	4.2	5.9	7.0	2.4	4.6
12	9.8	5.7	7.7	9.3	4.6	6.7	8.1	3.7	5.8	8.2	3.3	5.0
13	9.4	5.3	7.4	8.8	4.3	6.4	8.3	3.9	5.9	8.1	3.3	5.3
14	9.2	5.4	7.1	8.8	4.1	6.2	8.3	3.6	5.7	8.1	3.5	5.4
15	9.6	5.1	7.2	8.8	3.8	5.9	8.4	3.6	5.7	8.2	3.4	5.4
16	9.7	4.9	7.1	8.5	3.5	5.6	8.4	2.2	5.1	7.4	3.1	4.8
17	9.2	4.4	6.8	8.0	3.4	5.3	7.9	2.3	4.8	7.6	3.6	5.4
18	9.3	4.4	6.7	7.9	3.5	5.5	9.1	2.6	5.2	8.2	4.0	5.6
19	8.8	4.3	6.5	7.6	3.5	5.5	8.7	2.0	4.7	8.4	4.0	6.0
20	9.0	3.9	6.6	7.4	3.5	5.3	8.4	1.3	4.5	8.5	4.3	6.1
21	9.1	5.0	7.0	7.4	3.5	5.4	8.3	2.4	4.9	8.4	4.3	6.1
22	9.3	5.1	7.0	7.4	3.5	5.3	8.3	2.2	4.9	8.5	4.6	6.3
23	9.6	5.0	7.2	7.6	3.4	5.4	8.3	2.3	5.1	8.4	5.0	6.4
24	9.9	5.0	7.3	8.0	3.4	5.7	8.0	1.6	4.6	8.4	5.1	6.4
25	9.8	5.2	7.3	7.9	3.8	5.7	8.0	1.5	4.7	8.5	4.4	6.4
26	9.5	5.1	7.2	8.3	4.2	6.1	8.2	1.0	4.7	8.6	5.3	6.7
27	9.5	4.9	7.1	8.9	4.0	6.2	8.0	2.1	4.3	8.5	5.1	6.6
28	9.6	5.0	7.2	8.4	3.5	5.6	7.6	2.2	4.1	8.7	4.9	6.4
29	10.1	4.8	7.4	8.0	2.4	5.4	7.6	1.4	4.0	8.2	4.8	6.3
30	10.4	5.0	7.5	8.6	3.1	5.5	7.7	1.1	4.0	8.0	5.0	6.3
31	---	---	---	8.8	3.5	5.6	8.0	2.3	4.5	---	---	---
MONTH	10.4	3.9	7.2	10.6	2.4	6.1	10.7	1.0	5.2	8.7	1.7	5.4

10129900 SILVER CREEK NEAR SILVER CREEK JUNCTION, UT--Continued

PH, IN STANDARD UNITS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	7.7	7.5	7.6	7.5	7.3	7.4	7.3	7.2	7.3
2	---	---	---	7.7	7.5	7.6	7.4	7.3	7.4	7.3	7.1	7.2
3	---	---	---	7.7	7.5	7.5	7.4	7.3	7.3	7.2	7.1	7.1
4	---	---	---	7.7	7.5	7.5	7.4	7.2	7.3	7.2	7.1	7.2
5	---	---	---	7.6	7.4	7.5	7.4	7.3	7.3	7.3	7.2	7.2
6	---	---	---	7.7	7.4	7.5	7.4	7.3	7.3	7.3	7.2	7.2
7	---	---	---	7.6	7.4	7.5	7.4	7.3	7.3	7.2	7.1	7.1
8	---	---	---	7.7	7.5	7.6	7.3	7.3	7.3	7.3	7.1	7.2
9	---	---	---	7.7	7.5	7.6	7.4	7.3	7.3	7.4	7.3	7.3
10	---	---	---	7.7	7.5	7.6	7.4	7.3	7.3	7.4	7.3	7.3
11	---	---	---	7.7	7.5	7.6	7.3	7.3	7.3	7.4	7.3	7.3
12	---	---	---	7.7	7.5	7.6	7.3	7.2	7.3	7.4	7.3	7.3
13	---	---	---	7.7	7.5	7.6	7.4	7.3	7.3	7.4	7.3	7.3
14	---	---	---	7.7	7.5	7.6	7.6	7.3	7.5	7.4	7.3	7.3
15	---	---	---	7.7	7.5	7.6	7.5	7.4	7.4	7.4	7.3	7.3
16	7.5	7.2	---	7.7	7.5	7.6	7.4	7.3	7.4	7.4	7.3	7.3
17	7.5	7.2	7.3	7.7	7.5	7.6	7.4	7.3	7.3	7.4	7.3	7.4
18	7.5	7.2	7.3	7.7	7.5	7.6	7.4	7.3	7.3	7.4	7.3	7.4
19	7.5	7.2	7.3	7.7	7.5	7.6	7.6	7.3	7.4	7.4	7.2	7.4
20	7.5	7.2	7.3	7.8	7.5	7.6	7.6	7.5	7.5	7.4	7.3	7.4
21	7.4	7.2	7.3	7.7	7.6	7.6	7.5	7.4	7.5	7.5	7.3	7.5
22	7.5	7.2	7.3	7.7	7.5	7.6	7.5	7.3	7.4	7.5	7.3	7.5
23	7.5	7.2	7.3	7.8	7.7	7.7	7.4	7.3	7.3	7.4	7.3	7.4
24	7.6	7.3	7.4	7.8	7.5	7.7	7.4	7.3	7.3	7.4	7.3	7.5
25	7.6	7.3	7.4	7.6	7.4	7.5	7.4	7.3	7.3	7.4	7.3	7.5
26	7.6	7.4	7.4	7.6	7.4	7.5	7.4	7.3	7.3	7.5	7.4	7.5
27	7.6	7.4	7.5	7.6	7.4	7.5	7.4	7.2	7.3	7.5	7.3	7.5
28	7.6	7.3	7.4	7.5	7.3	7.4	7.3	7.2	7.3	7.4	7.3	7.5
29	7.6	7.3	7.4	7.5	7.3	7.4	7.3	7.2	7.3	7.4	7.2	7.4
30	7.6	7.4	7.4	7.4	7.3	7.3	7.3	7.2	7.3	7.3	7.1	7.3
31	7.6	7.4	7.5	---	---	---	7.3	7.2	7.3	7.3	7.1	7.3
MONTH	---	---	---	7.8	7.3	7.6	7.6	7.2	7.3	7.5	7.1	7.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	7.6	7.2	7.5	7.5	7.3	7.3	7.6	7.5	7.4	7.8	7.5	7.6
2	7.7	7.6	7.6	7.5	7.3	7.3	7.6	7.3	7.4	7.8	7.4	7.6
3	7.7	7.6	7.6	7.5	7.3	7.2	7.4	7.3	7.4	7.7	7.4	7.5
4	7.7	7.5	7.6	7.5	7.3	7.2	7.4	7.3	7.4	7.7	7.4	7.5
5	7.6	7.5	7.5	7.5	7.2	7.2	7.5	7.3	7.4	7.7	7.4	7.5
6	7.6	7.5	7.5	7.4	7.2	7.3	7.5	7.3	7.4	7.7	7.3	7.4
7	7.6	7.5	7.5	7.4	7.2	7.3	7.5	7.3	7.4	7.6	7.3	7.4
8	7.7	7.5	7.5	7.5	7.2	7.3	7.5	7.4	7.4	7.7	7.4	7.5
9	7.6	7.3	7.5	7.3	7.2	7.2	7.5	7.4	7.5	7.7	7.4	7.5
10	7.5	7.4	7.4	7.3	7.2	7.2	7.6	7.4	7.5	7.6	7.4	7.5
11	7.5	7.4	7.4	7.3	7.2	7.2	7.6	7.4	7.6	7.6	7.4	7.5
12	7.5	7.4	7.4	7.3	7.2	7.2	7.6	7.4	7.6	7.7	7.4	7.5
13	7.6	7.4	7.5	7.3	7.2	7.2	7.6	7.4	7.6	7.7	7.4	7.5
14	7.6	7.4	7.5	7.3	7.2	7.2	7.6	7.4	7.6	7.6	7.3	7.4
15	7.5	7.3	7.4	7.3	7.2	7.2	7.6	7.4	7.6	7.6	7.3	7.4
16	7.5	7.0	7.4	7.3	7.2	7.2	7.7	7.5	7.7	7.6	7.3	7.4
17	7.6	7.4	7.5	7.3	7.2	7.3	7.7	7.5	7.7	7.7	7.3	7.5
18	7.5	7.5	7.5	7.3	7.2	7.2	7.8	7.5	7.7	7.7	7.3	7.5
19	7.6	7.4	7.5	7.3	7.2	7.3	7.9	7.6	7.7	7.7	7.3	7.5
20	7.5	7.4	7.4	7.3	7.2	---	7.9	7.6	7.8	7.7	7.3	7.4
21	7.5	7.3	7.4	7.3	7.3	7.3	7.8	7.5	7.7	7.7	7.3	7.4
22	7.4	7.3	7.4	7.3	7.3	7.3	7.8	7.5	7.6	7.8	7.5	7.5
23	7.4	7.4	7.4	7.4	7.3	7.3	7.8	7.5	7.6	7.8	7.4	7.5
24	7.5	7.4	7.3	7.3	7.3	7.3	7.9	7.5	7.7	7.7	7.4	7.4
25	7.5	7.4	7.3	7.3	7.3	7.2	7.9	7.6	7.7	7.7	7.4	7.4
26	7.5	7.4	7.3	7.3	7.3	7.2	7.8	7.4	7.7	7.8	7.4	7.5
27	7.5	7.4	7.3	7.4	7.3	7.2	7.8	7.4	7.6	7.8	7.4	7.5
28	7.5	7.4	7.3	7.4	7.3	7.3	7.8	7.5	7.6	7.8	7.4	7.4
29	---	---	---	7.4	7.4	7.3	7.8	7.4	7.6	7.8	7.0	7.3
30	---	---	---	7.5	7.2	7.3	7.9	7.4	7.6	7.5	7.0	7.1
31	---	---	---	7.5	7.4	7.4	---	---	---	7.6	7.2	7.3
MONTH	7.7	7.0	7.4	7.5	7.2	---	7.9	7.3	7.6	7.8	7.0	7.4

WEBER RIVER BASIN

10129900 SILVER CREEK NEAR SILVER CREEK JUNCTION, UT--Continued

PH, IN STANDARD UNITS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	7.5	7.2	7.3	7.9	7.0	7.3	7.7	7.1	7.2	7.4	6.9	7.0
2	7.6	7.2	7.4	7.7	7.0	7.3	7.4	7.1	7.1	7.4	6.8	7.0
3	7.6	7.2	7.4	7.7	7.0	7.3	7.5	7.1	7.2	7.4	6.8	7.1
4	7.6	7.2	7.4	7.6	7.0	7.3	7.7	7.2	7.2	7.5	6.9	7.1
5	7.6	7.2	7.4	7.6	7.0	7.2	7.5	7.2	7.2	7.4	6.9	7.1
6	7.6	7.2	7.3	7.6	7.0	7.2	7.6	7.2	7.2	7.1	6.9	7.0
7	7.5	7.2	7.3	7.7	7.1	7.3	7.6	7.2	7.2	7.2	7.0	7.1
8	7.6	7.2	7.4	7.7	7.1	7.3	7.6	7.0	7.1	7.3	7.0	7.1
9	7.7	7.2	7.3	7.7	7.1	7.3	7.9	7.0	7.2	7.5	7.0	7.2
10	7.6	7.2	7.3	7.7	7.1	7.3	7.9	7.0	7.2	7.5	7.0	7.2
11	7.6	7.1	7.3	7.7	7.1	7.3	7.5	7.0	7.1	7.3	6.9	7.1
12	7.5	7.1	7.3	7.6	7.1	7.3	7.5	7.0	7.2	7.5	7.0	7.1
13	7.6	7.1	7.3	7.6	7.0	7.2	7.5	7.0	7.2	7.5	7.0	7.2
14	7.5	7.1	7.3	7.5	7.0	7.2	7.5	7.0	7.2	7.5	7.0	7.2
15	7.6	7.1	7.3	7.5	7.1	7.2	7.4	6.9	7.1	7.6	7.0	7.2
16	7.7	7.2	7.4	7.5	7.1	7.2	7.6	6.9	7.1	7.5	7.0	7.2
17	7.7	7.2	7.4	7.5	7.1	7.2	7.5	7.0	7.0	7.4	7.0	7.2
18	7.7	7.2	7.4	7.5	7.1	7.2	7.8	7.0	7.1	7.4	7.1	7.2
19	7.7	7.2	7.4	7.4	7.1	7.2	7.6	6.9	7.0	7.5	7.0	7.2
20	7.7	7.2	7.4	7.5	7.1	7.2	7.6	6.9	7.0	7.5	7.1	7.2
21	7.7	7.2	7.4	7.5	7.1	7.2	7.6	7.0	7.1	7.5	7.1	7.2
22	7.8	7.2	7.4	7.5	7.1	7.2	7.6	7.0	7.1	7.6	7.1	7.2
23	7.8	7.3	7.3	7.4	7.1	7.2	7.5	6.9	7.1	7.5	7.1	7.2
24	7.7	7.3	7.4	7.6	7.1	7.2	7.5	6.9	7.0	7.5	7.1	7.2
25	7.7	7.2	7.3	7.5	7.1	7.2	7.6	6.9	7.0	7.5	7.1	7.3
26	7.7	7.2	7.3	7.6	7.1	7.3	7.5	6.9	7.1	7.5	7.1	7.3
27	7.7	7.3	7.3	7.7	7.1	7.3	7.5	6.8	7.0	7.5	7.2	7.3
28	7.8	7.3	7.3	7.7	7.1	7.3	7.3	6.8	7.0	7.5	7.1	7.3
29	7.8	7.3	7.3	7.8	7.1	7.3	7.3	6.8	7.0	7.5	7.1	7.3
30	7.9	7.3	7.3	7.8	7.0	7.2	7.3	6.8	7.0	7.5	7.2	7.3
31	---	---	---	7.7	7.1	7.2	7.4	6.8	7.0	---	---	---
MONTH	7.9	7.1	7.3	7.9	7.0	7.2	7.9	6.8	7.1	7.6	6.8	7.2

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	1830	1650	1740	1990	1850	1920	1690	1660	1670
2	---	---	---	1650	1600	1620	2130	1840	2020	1700	1650	1680
3	---	---	---	1650	1580	1620	2060	1980	2010	1700	1670	1680
4	---	---	---	1650	1580	1620	1980	1930	1960	1680	1660	1670
5	---	---	---	1630	1600	1610	1980	1860	1930	1680	1660	1670
6	---	---	---	1640	1570	1600	1960	1840	1920	1680	1660	1670
7	---	---	---	1660	1600	1630	1960	1920	1950	1710	1660	1690
8	---	---	---	1640	1620	1630	1940	1880	1910	1740	1700	1720
9	---	---	---	1680	1590	1630	1890	1820	1860	1750	1710	1730
10	---	---	---	1690	1600	1640	1850	1790	1830	1790	1730	1750
11	---	---	---	1700	1620	1650	1880	1830	1860	1790	1740	1760
12	---	---	---	1660	1600	1630	1980	1860	1900	1740	1680	1720
13	---	---	---	1640	1580	1610	1920	1860	1890	1700	1620	1670
14	---	---	---	1680	1600	1630	1910	1750	1840	1670	1620	1640
15	---	---	---	1690	1600	1650	1920	1890	1910	1630	1580	1610
16	1800	1770	1790	1710	1620	1670	1920	1880	1900	1620	1580	1600
17	1840	1700	1780	1760	1650	1700	1910	1840	1880	1610	1540	1580
18	1880	1770	1820	1710	1630	1670	1870	1820	1840	1560	1530	1550
19	1830	1740	1790	1660	1600	1630	1840	1660	1790	1650	1560	1600
20	1860	1760	1810	1660	1590	1620	1760	1640	1730	1620	1590	1600
21	1870	1780	1820	1660	1580	1620	1760	1720	1740	1590	1550	1570
22	1820	1730	1780	1630	1570	1600	1750	1700	1720	1650	1540	1600
23	1850	1730	1790	1740	1570	1650	1760	1730	1740	1660	1620	1640
24	1900	1820	1850	1800	1720	1750	1730	1700	1720	1670	1630	1660
25	1850	1780	1820	1770	1680	1720	1740	1700	1710	1650	1610	1630
26	1850	1810	1840	1910	1750	1840	1760	1730	1740	1650	1590	1620
27	1870	1800	1830	1900	1870	1890	1760	1730	1750	1760	1580	1670
28	1830	1720	1760	1880	1740	1860	1770	1740	1760	1770	1430	1690
29	1780	1680	1730	1890	1650	1810	1740	1680	1720	1720	1630	1700
30	1780	1710	1750	2010	1870	1930	1710	1650	1680	1720	1670	1700
31	1870	1640	1760	---	---	---	1700	1670	1690	1690	1590	1650
MONTH	---	---	---	2010	1570	1680	2130	1640	1830	1790	1430	1660

10129900 SILVER CREEK NEAR SILVER CREEK JUNCTION, UT--Continued

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	1730	1540	1650	1720	1680	1710	1080	673	800	1790	1730	1760
2	1740	1690	1710	1720	1680	1710	1320	1050	1160	1780	1730	1750
3	1730	1690	1720	1710	1660	1690	1350	1080	1220	1770	1710	1740
4	1750	1700	1740	1690	1630	1660	1390	1200	1310	1790	1720	1750
5	1750	1700	1730	1700	1620	1650	1440	1310	1390	1780	1730	1760
6	1720	1680	1700	1670	1600	1640	1520	1390	1470	1750	1710	1730
7	1790	1720	1750	1720	1600	1660	1580	1460	1530	1790	1680	1730
8	1820	1660	1750	1770	1600	1710	1630	1500	1570	1770	1690	1740
9	1930	1800	1860	1790	1730	1760	1700	1580	1640	1690	1620	1640
10	1910	1780	1850	1810	1730	1780	1710	1630	1670	1680	1600	1630
11	1940	1700	1740	1780	1700	1750	1720	1660	1690	1710	1590	1650
12	1730	1660	1690	1770	1670	1720	1730	1670	1700	1650	1600	1620
13	1690	1620	1660	1730	1650	1690	1760	1680	1710	1640	1550	1600
14	1740	1600	1670	1860	1720	1800	1770	1680	1720	1790	1610	1690
15	1760	1690	1720	1920	1840	1880	1790	1730	1760	1840	1710	1770
16	1730	1650	1690	1930	1860	1900	1790	1710	1740	1780	1690	1740
17	1720	1640	1670	1910	1820	1880	1770	1710	1740	1750	1670	1710
18	1730	1660	1690	1930	1850	1900	1780	1720	1750	1790	1630	1720
19	1760	1650	1720	1950	1840	1890	1780	1700	1740	1790	1690	1740
20	1840	1710	1770	1880	1800	1860	1860	1730	1780	1750	1650	1700
21	1940	1780	1840	1830	1760	1800	1890	1840	1870	1730	1640	1690
22	1930	1820	1860	1830	1750	1800	1870	1820	1840	1730	1650	1680
23	1820	1740	1780	1760	1710	1740	1840	1780	1800	1680	1570	1620
24	1760	1690	1730	1770	1680	1720	1810	1710	1760	1760	1660	1710
25	1750	1680	1720	1780	1720	1750	1740	1670	1700	1760	1680	1730
26	1740	1700	1730	1790	1710	1760	1800	1670	1730	1720	1610	1660
27	1740	1700	1720	1750	1640	1710	1780	1720	1750	1640	1570	1610
28	1740	1700	1720	1660	1490	1590	1890	1730	1810	1720	1600	1680
29	---	---	---	1570	1320	1460	1840	1770	1800	1760	1650	1710
30	---	---	---	1380	725	1230	1800	1740	1770	1790	1650	1720
31	---	---	---	1210	644	1000	---	---	---	1780	1680	1740
MONTH	1940	1540	1740	1950	644	1700	1890	673	1630	1840	1550	1700

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	1770	1650	1720	1690	1600	1650	1650	1520	1590	1830	1680	1760
2	1740	1650	1690	1750	1550	1650	1750	1500	1620	1780	1580	1700
3	1730	1630	1680	1750	1480	1660	1800	1540	1700	1820	1620	1720
4	1770	1670	1720	1740	1580	1660	1720	1530	1650	1890	1750	1810
5	1770	1670	1720	1690	1540	1610	1770	1560	1670	1890	1250	1780
6	1760	1620	1690	1740	1550	1630	1800	1430	1720	1830	1750	1800
7	1770	1640	1710	1680	1540	1600	1800	1640	1720	1810	1510	1740
8	1820	1670	1750	1640	1500	1580	1700	1560	1630	1820	1580	1740
9	1820	1670	1740	1740	1500	1640	1670	1500	1580	1740	1610	1690
10	1730	1640	1690	1700	1600	1650	1650	1510	1580	1790	1650	1720
11	1730	1600	1670	1680	1450	1590	1630	1490	1560	1770	1540	1710
12	1720	1630	1670	1710	1580	1650	1560	1460	1510	1750	1650	1700
13	1760	1590	1680	1730	1580	1650	1650	1480	1550	1810	1490	1730
14	1790	1430	1680	1690	1500	1610	1650	1510	1580	1840	1690	1770
15	1860	1510	1730	1690	1550	1630	1640	1480	1570	1800	1690	1740
16	1760	1660	1710	1710	1560	1640	1620	1340	1540	1780	1640	1720
17	1720	1620	1680	1690	1510	1630	1710	1320	1580	1820	1670	1750
18	1720	1600	1660	1690	1550	1620	1650	1520	1580	1790	1670	1720
19	1720	1610	1670	1690	1550	1620	1620	1510	1580	1740	1240	1650
20	1740	1640	1690	1680	1540	1610	1720	1500	1610	1930	1700	1820
21	1830	1630	1730	1700	1530	1610	1660	1480	1600	1970	1840	1890
22	1820	1710	1770	1600	1510	1560	1630	1350	1560	1870	1740	1810
23	1820	1580	1740	1620	1490	1540	1730	1540	1630	1760	1650	1710
24	1800	1580	1720	1650	1480	1560	1760	1610	1680	1810	1470	1710
25	1800	1650	1720	1620	1510	1560	1740	1620	1670	1790	1230	1670
26	1790	1680	1730	1680	1430	1590	1720	1580	1650	1730	1400	1660
27	1810	1640	1720	1710	1530	1620	1830	1600	1710	1760	1410	1660
28	1800	1640	1700	1670	1520	1600	1780	1680	1740	1760	1450	1670
29	1770	1510	1690	1640	1460	1580	1820	1670	1740	1740	1440	1640
30	1760	1630	1680	1680	1540	1610	1830	1710	1770	1690	1440	1610
31	---	---	---	1700	1460	1610	1890	1720	1800	---	---	---
MONTH	1860	1430	1700	1750	1430	1610	1890	1320	1630	1970	1230	1730

WEBER RIVER BASIN

10129900 SILVER CREEK NEAR SILVER CREEK JUNCTION, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	10.8	7.8	9.3	6.5	2.5	4.8	9.5	5.8	7.9
2	---	---	---	10.9	6.6	8.9	8.0	2.9	6.2	8.4	4.2	6.8
3	---	---	---	11.2	6.4	8.8	8.0	5.6	7.2	7.8	3.8	6.3
4	---	---	---	11.3	6.5	9.1	8.4	6.1	7.3	7.8	3.9	6.0
5	---	---	---	11.5	8.8	10.4	7.4	3.6	6.2	7.2	3.7	5.7
6	---	---	---	12.7	9.6	11.2	7.4	2.7	6.0	7.0	3.7	5.6
7	---	---	---	11.6	9.7	10.7	7.6	4.9	6.4	6.5	3.0	4.9
8	---	---	---	10.5	6.9	8.9	7.5	4.9	6.4	6.0	2.9	4.6
9	---	---	---	10.8	6.6	8.7	7.4	5.2	6.6	5.9	2.9	4.5
10	---	---	---	10.6	7.4	9.0	7.4	5.2	6.5	5.5	2.6	4.1
11	---	---	---	10.8	7.3	9.1	6.9	4.5	5.9	5.5	2.4	4.1
12	---	---	---	11.3	8.0	9.8	6.2	0.9	4.2	5.8	2.7	4.4
13	---	---	---	10.9	8.4	9.7	6.5	3.7	5.4	6.8	2.8	4.9
14	---	---	---	11.2	7.6	9.3	6.0	0.5	3.5	6.7	3.2	4.9
15	---	---	---	10.7	6.5	8.7	6.8	4.0	5.5	6.2	2.9	4.8
16	17.2	13.4	14.4	10.6	6.2	8.5	6.8	4.0	5.6	6.7	3.2	5.1
17	15.6	12.8	13.9	9.7	5.5	7.8	7.4	4.5	6.1	6.6	3.1	5.1
18	14.7	12.4	13.5	9.9	6.9	8.2	7.6	4.5	6.4	6.4	3.5	5.3
19	14.7	11.5	13.0	10.0	6.0	8.1	6.9	4.6	6.1	7.0	3.5	5.5
20	14.6	11.8	13.0	10.0	5.7	7.9	6.5	1.3	4.9	7.3	3.7	5.6
21	14.1	12.0	12.9	9.4	6.3	8.0	7.3	4.2	6.0	6.8	2.5	4.9
22	14.1	12.0	12.9	8.7	3.6	6.1	7.4	4.4	6.0	6.6	2.5	5.2
23	13.4	11.2	12.5	5.5	2.7	4.2	7.0	3.6	5.6	5.5	3.1	4.5
24	11.9	9.7	10.6	7.2	2.9	4.8	7.3	3.8	5.9	6.5	3.2	5.1
25	12.3	7.9	10.1	8.6	6.6	7.9	7.0	3.9	5.7	6.8	3.7	5.2
26	12.3	8.1	10.3	8.3	5.2	6.8	7.3	3.5	5.8	6.8	2.9	4.8
27	13.4	8.8	11.1	7.5	4.9	6.0	8.0	4.3	6.6	5.7	1.9	4.2
28	14.2	10.9	12.4	6.3	0.1	4.9	8.3	4.6	7.0	6.0	2.9	5.1
29	14.0	11.1	12.5	6.7	0.0	4.5	8.6	4.3	7.1	6.1	3.5	4.9
30	13.0	11.4	12.2	7.3	5.0	6.4	9.0	4.8	7.5	5.6	2.9	4.4
31	12.1	9.4	10.6	---	---	---	9.5	5.1	7.8	6.0	3.9	4.9
MONTH	---	---	---	12.7	0.0	8.1	9.5	0.5	6.1	9.5	1.9	5.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	6.1	3.8	5.0	6.8	3.4	5.2	5.6	0.4	2.3	11.7	8.9	10.2
2	6.3	3.1	4.9	6.8	3.1	5.2	8.5	0.0	3.4	12.7	7.3	10.0
3	6.5	2.9	4.9	7.1	3.2	5.4	10.0	0.8	4.6	11.7	8.7	10.2
4	6.5	3.1	4.9	7.7	3.4	6.0	12.6	1.2	6.4	13.4	8.3	10.8
5	6.3	2.7	4.8	8.3	4.0	6.4	13.9	2.9	8.2	13.0	9.9	11.2
6	6.5	2.9	4.9	8.4	4.7	6.6	11.9	5.1	8.6	14.0	8.6	11.3
7	6.6	3.1	5.1	8.8	4.9	6.6	12.9	4.7	9.0	13.7	10.1	11.5
8	6.2	0.8	4.6	8.7	2.7	6.6	11.0	4.6	8.1	12.2	6.1	9.3
9	7.4	4.2	6.3	7.8	4.5	6.3	10.7	5.8	8.7	12.0	5.4	9.0
10	8.0	4.2	6.7	7.7	3.6	6.1	11.6	7.8	9.7	10.4	6.8	8.5
11	8.2	5.1	7.1	8.2	4.2	6.5	11.9	6.5	9.4	10.4	5.2	7.8
12	8.5	5.1	7.2	7.8	4.1	6.3	12.3	7.6	10.1	15.8	4.6	10.2
13	8.3	5.1	7.0	7.1	3.9	6.0	12.7	7.9	10.5	16.0	8.3	12.5
14	9.0	5.8	7.6	7.4	3.7	5.7	13.2	9.3	10.9	14.9	11.1	13.1
15	9.0	5.1	7.5	6.9	3.0	5.2	10.7	6.3	9.0	14.9	10.6	12.7
16	9.1	5.4	7.9	7.0	3.1	5.2	10.5	3.6	6.8	14.7	11.6	12.8
17	9.3	5.4	7.9	6.2	2.8	4.7	6.9	3.9	5.2	15.1	10.2	12.8
18	8.9	5.6	7.4	6.2	2.7	4.5	10.5	2.3	6.1	15.4	10.8	13.1
19	9.1	4.8	7.2	5.9	2.5	4.5	9.8	4.2	6.9	15.3	11.0	13.2
20	9.1	5.5	7.5	6.5	3.1	4.0	8.6	3.2	5.8	15.2	11.7	13.2
21	9.1	4.5	7.2	6.3	3.0	5.4	12.6	2.4	7.3	12.7	9.0	11.3
22	9.1	4.6	7.2	6.9	2.9	5.0	12.6	5.6	9.2	12.3	6.4	9.3
23	8.6	3.9	7.1	6.0	2.9	4.8	12.9	6.8	9.9	12.8	5.5	9.5
24	8.7	5.1	7.0	6.1	2.9	4.6	13.3	4.4	8.9	14.0	9.3	11.6
25	7.6	4.1	6.0	5.3	2.6	3.6	12.1	5.4	8.7	14.8	9.8	12.3
26	7.4	3.6	5.6	4.0	1.4	2.5	13.8	6.6	10.2	15.7	11.1	13.4
27	7.3	3.9	5.6	2.8	1.2	2.0	11.7	8.5	9.7	15.6	11.9	13.9
28	6.8	4.0	5.7	3.3	1.2	2.0	11.0	7.4	9.3	17.3	10.9	14.1
29	---	---	---	3.1	1.1	1.7	13.1	7.2	10.2	16.2	11.9	14.2
30	---	---	---	1.9	0.8	1.2	13.5	9.0	11.1	17.9	11.6	14.5
31	---	---	---	3.6	0.6	1.6	---	---	---	17.6	12.8	15.0
MONTH	9.3	0.8	6.3	8.8	0.6	4.8	13.9	0.0	8.1	17.9	4.6	11.7

10129900 SILVER CREEK NEAR SILVER CREEK JUNCTION, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	16.0	13.3	14.2	19.5	15.2	17.2	20.8	15.8	18.3	20.0	14.8	17.4
2	15.1	11.4	13.1	20.0	15.2	17.6	19.8	17.4	18.2	20.0	15.1	17.5
3	17.2	10.7	13.7	19.2	16.7	17.7	20.5	17.4	18.8	19.2	15.0	17.1
4	16.6	10.7	13.8	19.9	15.8	17.9	20.3	17.1	18.6	20.6	16.5	17.8
5	16.4	11.3	13.9	19.7	15.9	17.9	19.6	16.7	18.1	20.0	16.2	17.6
6	16.8	12.2	14.5	20.2	16.4	18.0	19.3	16.5	18.0	17.8	16.9	17.2
7	16.9	12.8	14.9	20.3	16.2	18.3	20.1	16.9	18.5	18.0	16.3	17.1
8	16.3	13.2	14.5	20.8	16.7	18.5	19.7	16.1	17.9	18.1	16.2	17.1
9	15.4	11.9	13.4	20.6	15.7	18.2	21.0	15.6	17.6	19.6	15.0	17.0
10	14.9	10.3	12.8	20.9	16.0	18.3	21.6	15.4	17.6	19.3	14.6	16.8
11	15.2	10.7	13.2	20.8	16.1	18.4	19.7	16.0	17.9	17.3	15.8	16.7
12	15.8	11.3	13.8	21.1	16.4	18.5	19.5	16.0	17.8	18.5	16.3	17.0
13	16.3	11.9	14.3	20.6	16.3	18.5	19.6	15.7	17.7	19.0	15.5	17.0
14	16.9	12.5	14.8	20.6	16.6	18.5	19.6	15.5	17.6	18.9	14.6	16.6
15	16.9	12.9	15.0	20.7	17.0	18.6	19.7	15.5	17.7	18.6	14.6	16.5
16	17.5	13.4	15.4	21.2	17.2	18.8	19.9	15.5	17.9	17.9	15.4	16.2
17	17.4	13.1	15.4	20.7	17.3	18.7	20.0	15.5	18.0	16.5	14.8	15.9
18	17.4	13.4	15.5	20.7	16.9	18.6	20.0	15.8	18.0	16.9	14.8	15.6
19	17.6	14.8	16.0	20.7	17.1	18.8	19.6	15.5	17.7	17.2	13.4	15.3
20	17.9	13.7	15.7	20.1	17.4	18.6	20.4	16.7	18.3	17.4	13.6	15.3
21	18.0	14.9	16.2	20.6	16.6	18.6	20.4	16.9	18.4	17.2	13.7	15.5
22	18.4	14.6	16.2	20.2	16.2	18.1	19.9	15.2	17.6	17.0	13.0	15.2
23	18.2	13.9	16.2	20.5	17.2	18.5	20.1	15.6	17.8	17.1	13.4	15.2
24	18.5	14.3	16.5	20.8	17.3	19.0	20.2	15.2	17.7	17.0	13.6	15.2
25	18.6	14.2	16.4	20.9	17.9	19.1	20.5	15.2	17.8	17.0	14.8	15.7
26	18.3	14.6	16.5	20.5	17.2	18.7	20.4	14.9	17.7	17.1	13.4	15.3
27	18.8	15.0	16.8	20.0	16.2	18.2	20.0	15.7	17.5	16.4	13.3	15.0
28	19.2	15.0	17.0	20.0	15.8	18.1	20.1	15.5	17.7	17.1	14.3	15.7
29	18.8	14.9	17.0	20.5	15.1	17.9	20.0	16.1	17.8	16.4	14.6	15.4
30	19.3	14.8	17.2	20.6	15.1	18.0	20.4	15.7	17.7	16.5	14.3	15.3
31	---	---	---	20.5	15.6	18.2	20.2	16.1	17.9	---	---	---
MONTH	19.3	10.3	15.1	21.2	15.1	18.3	21.6	14.9	17.9	20.6	13.0	16.3

10130500 WEBER RIVER NEAR COALVILLE, UT

LOCATION.--Lat 40°53'43", long 111°24'04", in NE¹/₄SW¹/₄NE¹/₄ sec. 20, T. 2 N., R. 5 E., Summit County, Hydrologic Unit 16020101, on left bank 1.2 mi upstream from high-water line of Echo Reservoir, 1.4 mi south of Coalville, 1.7 mi upstream from Chalk Creek, and 5.5 mi downstream from Silver Creek.

DRAINAGE AREA.--435 mi².

PERIOD OF RECORD.--April 1927 to current year.

REVISED RECORDS.--WSP 1314: 1943(M). WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,600 ft above NGVD of 1929, from topographic map. Prior to March 22, 1931, nonrecording gage, March 22, 1931 to July 18, 1967, water-stage recorder at same site at different datum.

REMARKS.--Records good except for estimated daily values, which are fair. Many diversions for irrigation above station. No diversion between station and Echo Reservoir. Records do not include water diverted from Weber River basin through Weber-Provo diversion canal. Flow regulated by several small reservoirs above station, and since April 1, 1957, by Rockport Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,190 ft³/s, May 6, 1952; maximum gage height, 5.08 ft (present datum), May 29, 1951; minimum, 6 ft³/s, Sep 20, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 216 ft³/s, Jul 23, gage height, 2.66 ft; minimum daily discharge, 42 ft³/s, several days in Jan.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	48	46	e49	e44	e55	102	e58	e90	182	203	148
2	104	46	44	e48	e46	e57	104	e59	e91	186	204	148
3	106	46	45	e46	e46	e56	98	e59	e93	179	207	125
4	100	45	45	e46	e46	e57	88	e58	e92	176	205	107
5	110	45	44	e46	e46	e57	84	e58	e95	181	203	104
6	116	45	46	e44	e46	e56	81	e58	e94	169	202	105
7	116	45	48	e43	e46	e57	74	e59	87	117	201	111
8	117	44	49	e43	e49	e56	70	e58	92	118	200	120
9	96	42	e47	e43	e49	e55	64	e58	125	138	200	112
10	50	42	e47	e44	e49	e57	65	e58	172	171	194	109
11	48	42	e47	e43	e49	e55	64	e59	174	175	192	106
12	48	42	e47	e42	e50	e56	62	e58	177	169	190	96
13	47	43	e48	e42	e50	e57	62	e57	174	169	181	75
14	46	44	e48	e42	e50	e55	63	e58	170	171	183	67
15	47	42	e47	e42	e50	e56	66	e58	170	171	173	63
16	47	42	e48	e42	e50	e54	66	e58	168	175	168	65
17	43	42	e46	e42	e50	e56	62	e61	163	180	168	73
18	45	43	e47	e42	e52	e55	60	e62	167	186	169	91
19	45	42	e48	e42	e51	e56	60	e63	166	205	164	81
20	45	41	e48	e42	e55	e57	61	e63	169	206	159	77
21	44	40	e49	e42	e52	e55	61	e65	168	207	163	81
22	44	54	e49	e42	e53	e56	57	e63	173	207	157	75
23	46	56	e49	e42	e55	e55	54	e68	171	193	162	71
24	47	49	e49	e42	e54	e56	55	e76	170	207	160	71
25	46	47	e47	e42	e57	e56	e56	e79	163	210	162	71
26	45	46	e47	e42	e56	e57	e58	e81	172	209	161	73
27	45	45	e47	e42	e57	58	e59	e81	170	210	161	73
28	43	48	e47	e42	e56	66	e58	e83	168	205	160	74
29	43	50	e49	e42	---	70	e58	e87	170	206	155	74
30	45	44	e49	e42	---	81	e57	e87	173	206	152	76
31	47	---	e49	e42	---	92	---	e90	---	205	152	---
TOTAL	1974	1350	1466	1335	1414	1822	2029	2040	4427	5689	5511	2722
MEAN	63.68	45.00	47.29	43.06	50.50	58.77	67.63	65.81	147.6	183.5	177.8	90.73
MAX	117	56	49	49	57	92	104	90	177	210	207	148
MIN	43	40	44	42	44	54	54	57	87	117	152	63
AC-FT	3920	2680	2910	2650	2800	3610	4020	4050	8780	11280	10930	5400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2002, BY WATER YEAR (WY)

	MEAN	171.6	151.9	144.2	129.7	131.0	160.3	199.0	321.7	551.3	276.2	184.1	174.9
MAX	397	246	400	397	307	615	760	994	1550	815	346	277	
(WY)	1985	1986	1984	1984	1985	1986	1986	1986	1983	1995	1983	1958	
MIN	26.8	32.0	27.9	23.5	28.1	27.5	31.4	44.3	96.8	89.7	40.6	43.6	
(WY)	1993	1962	1978	1978	1981	1981	1981	1959	1977	1958	1961	1960	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1958 - 2002

ANNUAL TOTAL	37673	31779	
ANNUAL MEAN	103.2	87.07	216.4
HIGHEST ANNUAL MEAN			485
LOWEST ANNUAL MEAN			71.1
HIGHEST DAILY MEAN	239	210	1860
LOWEST DAILY MEAN	38	40	7.0
ANNUAL SEVEN-DAY MINIMUM	42	42	15
ANNUAL RUNOFF (AC-FT)	74720	63030	156800
10 PERCENT EXCEEDS	191	175	377
50 PERCENT EXCEEDS	79	58	173
90 PERCENT EXCEEDS	45	43	45

e Estimated

10131000 CHALK CREEK AT COALVILLE, UT

LOCATION.--Lat 40°55'14", long 111°24'03", in NW¹/₄NE¹/₄SE¹/₄ sec. 8, T. 2 N., R. 5 E., Summit County, Hydrologic Unit 16020101, on left bank 100 ft downstream from bridge on U.S. Highway 189 in Coalville and 0.3 mi upstream from mouth.

DRAINAGE AREA.--250 mi².

PERIOD OF RECORD.--November 1904, March to November 1905, April 1927 to current year.

REVISED RECORDS.--WSP 1564: 1929. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,557.6 feet above NGVD of 1929. Prior to February 13, 1931, nonrecording gage at site 100 ft upstream at different datum. February 13, 1931 to October 15, 1941, water-stage recorder at site 300 ft upstream at different datum. October 16, 1941 to September 30, 1987 at datum 3.0 ft lower.

REMARKS.--Records good. Diversions above station used for irrigation of land in the drainage basin above the station. Flow slightly affected by Chalk Creek Reservoir, capacity, 1,600 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft³/s, May 22, 1993, gage height, 6.89 ft; minimum, less than 1.0 ft³/s for several days in 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 21	1015	*212	*4.16				

Minimum discharge, 2.7 ft³/s, Aug 15-19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	21	13	14	e14	e26	48	135	113	6.4	3.5	4.1
2	7.0	18	22	13	e16	e27	56	110	114	6.4	3.5	3.4
3	7.0	16	21	14	e14	e28	76	114	119	6.8	3.6	3.2
4	6.7	16	20	13	e15	e28	81	116	97	7.0	3.5	3.3
5	6.4	16	15	14	e16	e30	97	127	82	6.2	3.3	3.2
6	6.6	16	20	14	e17	30	111	135	69	6.5	3.7	4.0
7	7.0	18	19	15	e18	34	90	160	67	6.5	4.8	5.9
8	6.9	21	8.5	16	e16	29	87	155	66	6.3	3.6	8.7
9	8.2	18	14	16	e17	23	74	134	66	6.0	3.4	10
10	9.9	16	16	14	e16	29	92	118	65	6.0	3.2	8.9
11	9.6	16	17	13	e16	32	87	117	57	5.9	3.3	7.9
12	11	16	16	14	e17	31	69	109	51	5.6	3.1	9.3
13	12	16	15	14	e16	42	67	102	45	5.5	3.0	9.7
14	11	17	17	11	e15	32	74	134	40	5.2	3.0	9.1
15	12	17	16	12	e17	26	90	153	38	5.1	2.8	7.8
16	12	17	11	12	e18	27	95	159	33	7.6	2.7	8.1
17	12	15	14	12	e17	25	83	150	29	20	2.7	10
18	12	17	17	13	e17	24	64	162	27	25	2.7	24
19	13	17	16	12	e18	27	74	176	29	16	2.9	22
20	13	15	15	13	e18	34	66	184	30	13	3.1	17
21	13	15	15	14	e19	37	57	196	26	6.9	3.2	14
22	14	24	15	13	e18	44	56	176	23	5.3	3.4	14
23	14	24	11	11	e19	50	71	157	24	4.5	3.3	12
24	14	19	11	e13	e20	49	67	136	23	4.5	3.1	12
25	14	19	11	e12	e23	39	65	124	20	4.3	3.1	11
26	14	17	11	e13	e22	35	67	116	18	4.2	4.0	11
27	15	17	12	e14	e28	41	93	113	18	4.0	4.0	12
28	14	7.5	13	e13	e27	43	91	114	12	3.8	4.0	12
29	14	16	14	e14	---	43	80	111	9.4	4.3	3.8	12
30	15	20	14	e14	---	43	106	116	6.6	4.2	3.5	13
31	19	---	15	e15	---	42	---	118	---	3.8	4.0	---
TOTAL	350.6	517.5	464.5	415	504	1050	2334	4227	1417.0	222.8	104.8	302.6
MEAN	11.31	17.25	14.98	13.39	18.00	33.87	77.80	136.4	47.23	7.187	3.381	10.09
MAX	19	24	22	16	28	50	111	196	119	25	4.8	24
MIN	6.4	7.5	8.5	11	14	23	48	102	6.6	3.8	2.7	3.2
AC-FT	695	1030	921	823	1000	2080	4630	8380	2810	442	208	600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2002, BY WATER YEAR (WY)

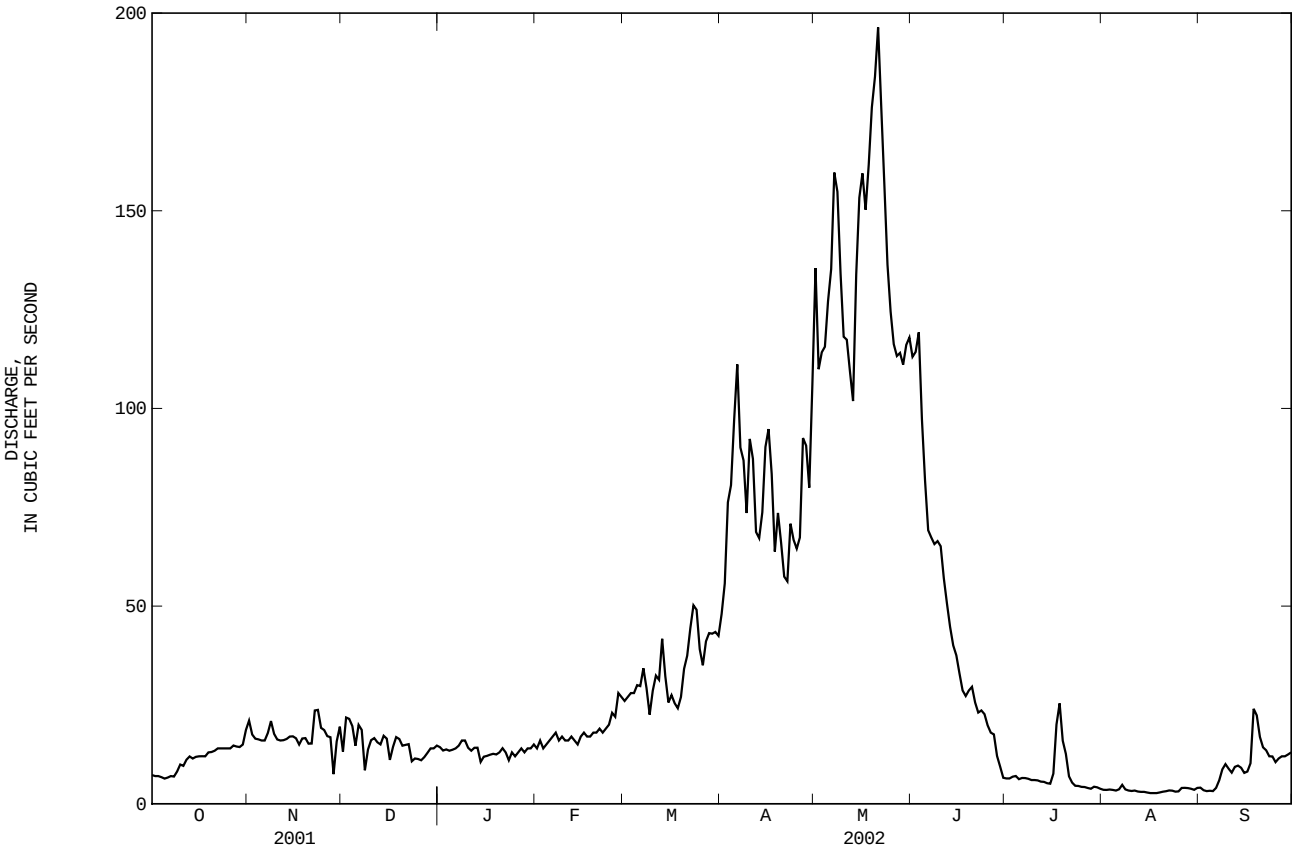
	MEAN	21.85	23.95	21.15	20.88	23.77	40.54	116.4	281.1	177.8	47.54	23.76	21.68
MAX	66.7	60.3	54.2	49.8	94.6	168	378	775	812	194	89.9	69.2	
(WY)	1983	1985	1984	1984	1986	1986	1986	1986	1983	1983	1984	1983	
MIN	1.00	4.57	8.52	8.93	11.6	15.9	13.7	6.90	1.70	1.55	1.48	1.00	
(WY)	1935	1935	1940	1961	1940	1964	1934	1934	1934	1934	1934	1934	

WEBER RIVER BASIN

10131000 CHALK CREEK AT COALVILLE, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1928 - 2002	
ANNUAL TOTAL	11520.7		11909.8		68.53	
ANNUAL MEAN	31.56		32.63		197	
HIGHEST ANNUAL MEAN					8.66	
LOWEST ANNUAL MEAN					1420	
HIGHEST DAILY MEAN	246	May 16	196	May 21	1.0	May 22 1993
LOWEST DAILY MEAN	5.2	Aug 11	2.7	Aug 16	1.0	Jun 8 1934
ANNUAL SEVEN-DAY MINIMUM	5.7	Aug 5	2.8	Aug 13	1.0	Aug 19 1934
ANNUAL RUNOFF (AC-FT)	22850		23620		49640	
10 PERCENT EXCEEDS	74		99		182	
50 PERCENT EXCEEDS	16		16		26	
90 PERCENT EXCEEDS	7.1		4.0		11	

e Estimated



10132000 WEBER RIVER AT ECHO, UT

LOCATION.--Lat 40°58'04", long 111°26'13", in NE¹/₄SE¹/₄NE¹/₄ sec. 25, T. 3 N., R. 4 E., Summit County, Hydrologic Unit 16020101, on right bank 0.5 mi downstream from Echo Dam, 150 yards upstream from Echo Creek, 0.75 mi southeast of Echo.

DRAINAGE AREA.--727 mi².

PERIOD OF RECORD.--April 1927 to September 1960, October 1988 to current year. Monthly discharge only October 1958 to September 1960, published in WSP 1734.

GAGE.--Water-stage recorder. Elevation of gage is 5,440 ft above NGVD of 1929, from Echo Reservoir elevations. Prior to April 18, 1931, staff gage at site 0.3 mi upstream at different datum. April 18, 1931 to March 23, 1950, water-stage recorder at site 0.1 mi downstream at different datum. March 24, 1950 to September 30, 1960 water-stage recorder at site 0.25 mi upstream at different datum.

REMARKS.--Records good except for estimated days, which are fair. Flow regulated by Echo Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,060 ft³/s, May 13, 1952, gage height 7.34 ft, datum then in use; minimum discharge, 0.15 ft³/s, Jan 3, 4, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 544 ft³/s, Aug 1; minimum daily discharge, 0.93 ft³/s, Jan 3, 17-23.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	309	1.1	1.1	e1.0	e0.95	e1.1	1.1	1.4	138	e387	544	247
2	298	1.1	1.1	e1.0	e0.95	e1.0	1.1	1.4	110	e409	410	238
3	269	1.1	1.1	e0.93	e0.95	e1.0	1.1	1.4	103	407	389	230
4	272	1.1	1.1	e1.0	e0.96	e1.0	1.1	1.5	107	e407	367	219
5	282	1.1	1.1	e1.0	e0.96	e1.0	1.1	2.1	149	e407	384	228
6	272	1.1	1.3	e1.0	e0.96	e1.0	1.2	31	200	407	393	203
7	259	1.2	1.1	e1.0	e0.97	e0.99	1.2	39	228	401	389	157
8	232	1.3	1.1	e1.0	e0.97	e0.97	1.2	40	227	e389	411	122
9	203	1.1	1.1	e1.0	e0.97	1.0	1.2	40	188	409	398	109
10	121	1.1	e1.0	e1.0	e0.97	1.0	1.2	40	173	437	373	102
11	69	1.1	e1.1	e1.0	e0.98	1.1	1.2	40	173	434	368	97
12	9.6	1.1	e1.0	e0.99	e0.98	1.1	1.2	40	177	406	337	87
13	1.4	1.1	e1.1	e0.98	e0.98	1.3	1.2	40	243	385	330	100
14	1.4	1.1	e1.1	e0.98	e0.98	1.1	1.2	55	317	388	347	111
15	1.4	1.1	e1.0	e0.98	e0.98	1.1	1.2	104	328	397	354	149
16	1.4	1.1	e1.0	e0.98	e0.99	1.1	1.2	157	327	422	359	189
17	1.4	1.1	e1.0	e0.93	e0.99	1.1	1.3	112	322	420	349	165
18	1.3	1.1	e1.0	e0.93	e0.99	1.1	1.3	95	301	385	327	121
19	1.2	1.1	e0.99	e0.93	e0.99	1.1	1.3	99	e281	350	320	111
20	1.2	1.1	e0.99	e0.93	e0.99	1.1	1.3	e93	e258	312	297	147
21	1.2	1.1	e0.99	e0.93	e1.0	1.1	1.2	e86	282	315	259	147
22	1.2	1.4	e0.99	e0.93	e1.0	1.1	1.2	81	303	356	243	151
23	1.2	1.2	e1.0	e0.93	e1.0	1.2	1.3	73	298	390	225	176
24	1.2	1.2	e1.0	e0.94	e1.0	1.2	1.3	74	262	391	234	200
25	1.2	1.2	e1.0	e0.94	e1.0	1.2	1.4	74	293	395	261	217
26	1.2	1.1	e1.0	e0.94	e1.0	1.2	1.4	75	403	385	287	232
27	1.1	1.1	e1.0	e0.94	e1.0	1.2	1.4	80	438	346	272	230
28	1.1	1.2	e1.0	e0.94	e1.0	1.2	1.4	102	430	370	253	217
29	1.2	1.1	e0.96	e0.94	---	1.2	1.4	133	390	406	250	200
30	1.3	1.1	e1.0	e0.94	---	1.2	1.4	145	377	423	249	186
31	1.3	---	e1.0	e0.94	---	1.1	---	146	---	470	247	---
TOTAL	2619.5	34.0	32.32	29.87	27.46	34.16	37.3	2101.8	7826	12206	10226	5088
MEAN	84.50	1.133	1.043	0.964	0.981	1.102	1.243	67.80	260.9	393.7	329.9	169.6
MAX	309	1.4	1.3	1.0	1.0	1.3	1.4	157	438	470	544	247
MIN	1.1	1.1	0.96	0.93	0.95	0.97	1.1	1.4	103	312	225	87
AC-FT	5200	67	64	59	54	68	74	4170	15520	24210	20280	10090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932-58, 1989-2002, BY WATER YEAR (WY)

	MEAN	118.7	90.71	87.22	91.58	107.8	114.5	175.4	515.7	708.8	502.6	426.2	283.6
MAX	297	183	247	296	547	560	580	2158	1682	1037	597	492	
(WY)	1994	1939	1999	1997	1997	1996	1998	1952	1950	1995	1990	1993	
MIN	0.45	0.43	0.29	0.43	0.42	0.75	1.12	27.2	235	176	97.4	23.0	
(WY)	1993	1993	1993	1955	1993	1993	1955	1991	1934	1934	1934	1934	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1932-58, 1989-2002

ANNUAL TOTAL	46532.83	40262.41	
ANNUAL MEAN	127.5	110.3	269.3
HIGHEST ANNUAL MEAN			566
LOWEST ANNUAL MEAN			108
HIGHEST DAILY MEAN	461	544	3010
LOWEST DAILY MEAN	0.81	0.93	0.17
ANNUAL SEVEN-DAY MINIMUM	0.82	0.93	0.19
ANNUAL RUNOFF (AC-FT)	92300	79860	195100
10 PERCENT EXCEEDS	383	384	587
50 PERCENT EXCEEDS	1.8	1.3	165
90 PERCENT EXCEEDS	0.99	0.98	1.4

e Estimated

WEBER RIVER BASIN

10132500 LOST CREEK NEAR CROYDON, UT

LOCATION.--Lat 41°10'35", long 111°24'20", in NW¹/₄NW¹/₄SE¹/₄ sec. 8, T. 5 N., R. 5 E., Morgan County, Hydrologic Unit 16020101, on right bank 1,200 ft downstream from Lost Creek Dam, 1.9 mi upstream from Hell Canyon, 9.5 mi northeast of Croydon.

DRAINAGE AREA.--123 mi².

PERIOD OF RECORD.--February 1921 to December 1923, April 1941 to September 1967, October 1999 to current year. Published as miscellaneous measurements 1988 to 1999.

GAGE.--Water stage recorder. Elevation of gage is 5,820 ft. Prior to August 26, 1954 to June 7, 1966 at various sites 1,000 ft downstream at different datums. Gage established at current datum June 1966.

REMARKS.--Records good. Lost Creek Reservoir completed January, 1967. Active reservoir storage began April 22, 1967.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 770 ft³/s, May 10, 11, 18, 1923, gage height, 4.20 ft; minimum, no flow on April 13-19, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 87 ft³/s, Jul 27, Aug 7, gage height, 1.86 ft; minimum daily discharge, 9.5 ft³/s many days during the year.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	9.5	9.5	e9.5	e9.5	e9.5	e9.5	9.5	10	44	42	42
2	18	9.5	9.5	e9.5	e9.5	e9.5	e9.5	9.5	10	35	42	42
3	18	9.5	9.5	e9.5	e9.5	e9.5	e9.5	9.5	10	29	42	39
4	18	9.5	9.5	e9.5	e9.5	e9.5	e9.5	9.5	11	29	42	37
5	18	9.5	9.5	e9.5	e9.5	e9.5	e9.5	9.5	18	29	42	37
6	17	9.5	9.5	e9.5	e9.5	e9.5	e9.5	9.5	31	29	69	37
7	17	9.5	9.5	e9.5	e9.5	e9.5	e9.5	9.5	57	29	87	37
8	17	9.5	9.5	e9.5	e9.5	e9.5	e9.5	9.5	78	29	60	37
9	17	9.5	9.5	e9.5	e9.5	e9.5	e9.5	9.5	78	29	42	29
10	16	9.5	9.5	e9.5	e9.5	e9.5	e9.5	9.5	69	29	42	25
11	16	9.5	e9.5	e9.5	e9.5	e9.5	e9.5	9.5	61	29	42	25
12	16	9.5	e9.5	e9.5	e9.5	e9.5	e9.5	9.5	51	39	42	25
13	16	9.5	e9.5	e9.5	e9.5	e9.5	e9.5	9.5	36	52	42	25
14	16	9.5	e9.5	e9.5	e9.5	e9.5	e9.5	9.9	29	52	42	25
15	12	9.5	e9.5	e9.5	e9.5	e9.5	e9.0	10	30	44	42	25
16	9.5	9.5	e9.5	e9.5	e9.5	e9.5	e9.5	10	30	38	45	25
17	9.5	9.5	e9.5	e9.5	e9.5	e9.5	e9.5	10	30	38	51	25
18	9.5	9.5	e9.5	e9.5	e9.5	e9.5	e9.0	10	29	38	51	25
19	9.5	9.5	e9.5	e9.5	e9.5	e9.5	e9.5	10	29	38	43	25
20	9.5	9.5	e9.5	e9.5	e9.5	e9.5	e9.5	10	26	38	37	25
21	9.5	9.5	e9.5	e9.5	e9.5	e9.5	e9.5	10	19	38	37	25
22	9.5	9.5	e9.5	e9.5	e9.5	e9.5	e9.5	10	19	38	37	25
23	9.5	9.5	e9.5	e9.5	e9.5	e9.5	e9.5	10	19	38	46	22
24	9.5	9.5	e9.5	e9.5	e9.5	e9.5	e9.5	10	20	38	52	20
25	9.5	9.5	e9.5	e9.5	e9.5	e9.5	9.5	10	29	38	52	20
26	9.5	9.5	e9.5	e9.5	e9.5	e9.5	9.5	10	46	58	46	20
27	9.5	9.5	e9.5	e9.5	e9.5	e9.5	9.5	10	48	87	42	20
28	9.5	9.5	e9.5	e9.5	e9.5	e9.5	9.5	10	48	85	42	e19
29	9.5	9.5	e9.5	e9.5	---	e9.5	9.5	10	48	63	42	18
30	9.5	9.5	e9.5	e9.5	---	e9.5	9.5	10	48	42	42	17
31	9.5	---	e9.5	e9.5	---	e9.5	---	10	---	42	42	---
TOTAL	402.0	285.0	294.5	294.5	266.0	294.5	284.0	303.4	1067	1284	1427	818
MEAN	12.97	9.500	9.500	9.500	9.500	9.500	9.467	9.787	35.57	41.42	46.03	27.27
MAX	18	9.5	9.5	9.5	9.5	9.5	9.5	10	78	87	87	42
MIN	9.5	9.5	9.5	9.5	9.5	9.5	9.0	9.5	10	29	37	17
AC-FT	797	565	584	584	528	584	563	602	2120	2550	2830	1620

CAL YR 2001 TOTAL 8861.5 MEAN 24.28 MAX 56 MIN 9.5 AC-FT 17580
WTR YR 2002 TOTAL 7019.9 MEAN 19.23 MAX 87 MIN 9.0 AC-FT 13920

e Estimated

10133800 EAST CANYON CREEK NEAR JEREMY RANCH, UT

LOCATION.--Lat 40°45'35", long 111°33'48", in NE¹/₄SW¹/₄ sec. 1, T. 1 S., R. 3 E., Summit County, Hydrologic Unit 16020102, on right bank 0.5 mi north of Jeremy Ranch.

DRAINAGE AREA.--57.2 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 6,240 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 246 ft³/s, Mar 31, 2002, gage height, 6.32 ft; minimum daily discharge, 2.2 ft³/s, Aug 14, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 246 ft³/s, Mar 31, gage height, 6.32 ft; minimum daily discharge, 2.2 ft³/s, Aug 14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e6.0	15	12	13	12	14	139	49	55	8.6	5.5	3.7
2	e6.0	12	13	11	12	13	133	47	61	8.1	6.9	3.2
3	e6.0	13	17	12	12	13	106	48	59	8.4	6.6	3.2
4	6.0	13	16	12	11	13	89	48	51	11	6.5	4.4
5	6.9	13	13	11	11	14	84	47	47	9.9	6.0	6.2
6	9.5	13	15	12	11	15	78	47	40	9.3	5.4	8.3
7	7.5	18	12	12	11	16	69	51	33	8.7	4.0	11
8	7.3	15	11	13	12	14	62	55	34	7.9	4.3	12
9	17	12	11	13	12	14	57	56	33	7.7	4.9	8.6
10	13	13	11	13	12	16	65	57	31	7.0	4.8	6.8
11	12	13	9.6	13	13	16	60	67	28	7.2	5.1	6.7
12	12	13	10	13	13	17	58	57	26	6.5	4.9	8.4
13	10	15	9.7	12	13	25	54	46	22	6.5	4.0	7.8
14	9.0	16	11	11	13	20	54	47	21	5.4	2.2	7.2
15	8.1	14	12	9.7	13	19	55	53	19	6.8	3.7	7.1
16	7.6	15	12	9.9	13	17	63	51	17	6.8	3.3	7.5
17	7.7	15	10	9.5	14	17	62	55	15	8.8	2.7	10
18	8.4	15	12	9.3	15	16	57	57	15	10	3.5	16
19	8.4	14	13	9.1	15	16	64	63	14	11	3.0	10
20	8.8	15	12	9.9	16	17	70	67	14	9.1	2.9	9.5
21	8.7	14	12	10	15	19	64	80	e14	8.5	4.9	9.2
22	8.1	40	12	10	15	22	61	96	13	7.9	4.6	8.3
23	8.5	27	10	10	16	32	56	83	14	9.0	4.2	7.9
24	11	16	8.9	11	16	42	51	72	14	8.6	4.3	7.8
25	8.8	9.5	8.4	10	14	35	49	62	12	8.6	4.5	7.0
26	8.3	11	8.2	11	13	36	50	52	13	8.6	4.6	8.9
27	9.4	11	9.2	11	15	45	58	46	11	7.9	4.4	9.3
28	9.3	9.7	10	12	15	60	57	45	11	7.7	5.2	9.4
29	9.8	9.9	12	12	---	83	52	49	9.2	7.2	3.9	9.7
30	9.5	11	12	11	---	117	49	50	9.2	6.3	4.4	11
31	29	---	13	12	---	131	---	51	---	4.9	4.2	---
MEAN	9.600	14.70	11.55	11.24	13.32	30.45	67.53	56.58	25.18	8.061	4.497	8.203
MAX	29	40	17	13	16	131	139	96	61	11	6.9	16
MIN	6.0	9.5	8.2	9.1	11	13	49	45	9.2	4.9	2.2	3.2

WTR YR 2002 MEAN 21.73 MAX 139 MIN 2.2

e Estimated

10133800 EAST CANYON CREEK NEAR JEREMY RANCH, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2001 to September 30, 2002.

PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: October 2001 to September 30, 2002.

PH: October 2001 to September 30, 2002.

SPECIFIC CONDUCTANCE: October 2001 to September 30, 2002.

WATER TEMPERATURE: October 2001 to September 30, 2002.

INSTRUMENTATION.-Water quality monitor from October 2001 to September 30, 2002.

REMARKS.--Dissolved oxygen records poor. PH records good. Specific conductivity records good except for the period from March 29 to April 1, which are poor. Temperature records good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: Maximum, 12.1 mg/L, Apr 21, 2002; minimum, 3.0 mg/L, Aug 20, 2002.

PH: Maximum 8.6 units, several days in May, Jun, Jul, 2002; minimum, 7.3 units, Mar 30, Aug 23-27, and Sep 3, 2002.

SPECIFIC CONDUCTANCE: Maximum, 3,110 microsiemens, Feb 20, 2002; minimum, 476 microsiemens, May 20, 2002.

WATER TEMPERATURE: Maximum 24.0°C, Jul 12, 13, 25, 2002; minimum, 0.0°C, Dec 8, 11, 18, 21, Mar 3, 7, 2002.

EXTREMES FOR CURRENT YEAR.--

DISSOLVED OXYGEN: Maximum, 12.1 mg/L, Apr 21; minimum, 3.0 mg/L, Aug 20.

PH: Maximum, 8.6 units, several days in May, Jun, Jul; minimum, 7.3 units, Mar 30, Aug 23-27, and Sep 3.

SPECIFIC CONDUCTANCE: Maximum, 3,110 microsiemens, Feb 20; minimum, 476 microsiemens, May 20.

WATER TEMPERATURE: Maximum, 24.0°C, Jul 12, 13, 25; minimum, 0.0°C, Dec 8, 11, 18, 21, Mar 3, 7.

OXYGEN DISSOLVED, IN MG/L, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	9.0	7.5	8.2	10.5	9.1	9.6	10.9	9.7	10.1
2	---	---	---	9.7	7.8	8.5	10.6	9.1	9.6	10.9	9.8	10.1
3	---	---	---	10.1	8.0	8.7	10.5	9.4	9.8	10.8	9.8	10.2
4	---	---	---	10.0	7.6	8.7	10.8	9.5	9.9	11.0	9.9	10.3
5	---	---	---	9.5	7.5	8.2	10.9	9.6	10	11.1	9.7	10.3
6	---	---	---	9.2	7.2	8.0	10.8	9.6	10.1	10.9	9.8	10.3
7	---	---	---	9.0	7.3	8.0	11.3	9.7	10.3	11.3	9.8	10.4
8	---	---	---	9.7	8.0	8.6	11.4	9.7	10.3	11.3	9.8	10.3
9	---	---	---	10.1	8.1	8.9	11.3	9.7	10.2	11.2	9.8	10.3
10	---	---	---	10.1	8.1	8.8	11.2	9.6	10.2	11.3	9.8	10.4
11	---	---	---	10.1	7.8	8.7	10.9	9.7	10.2	11.1	9.8	10.3
12	---	---	---	9.7	7.6	8.4	11.1	9.9	10.4	11.5	9.5	10.1
13	---	---	---	9.2	7.7	8.3	11.2	9.7	10.3	11.0	9.0	10.0
14	---	---	---	9.7	7.7	8.5	10.9	9.6	9.9	10.8	8.8	9.7
15	---	---	---	10.0	7.8	8.6	11.1	9.6	10.2	10.8	9.2	9.8
16	---	---	---	10.2	8.0	8.8	11.4	9.9	10.5	10.9	9.4	9.8
17	---	---	---	10.2	8.2	9.0	11.2	9.8	10.4	10.6	9.0	9.6
18	9.3	7.2	8.1	9.7	8.1	8.8	11.4	10.1	10.7	10.2	9.0	9.5
19	9.7	7.4	8.4	10.2	8.0	8.9	11.6	10.1	10.7	10.4	8.9	9.4
20	9.6	7.2	8.2	10.5	8.2	9.0	11.7	9.9	10.6	10.1	8.8	9.4
21	9.5	7.3	8.2	10.1	7.9	8.9	11.3	9.9	10.5	10.1	8.8	9.3
22	10.0	7.4	8.3	9.1	7.7	8.5	11.2	10.0	10.5	10.1	9.0	9.4
23	9.3	7.4	8.2	10.2	8.6	9.3	11.2	10.0	10.5	10.4	9.0	9.6
24	10.0	8.2	8.8	10.3	8.2	9.3	11.4	9.9	10.4	10.3	9.1	9.7
25	10.1	8.2	9.1	10.0	8.0	8.8	11.5	9.8	10.4	10.5	9.0	9.6
26	10.6	8.2	9.2	9.8	8.2	9.0	11.0	9.6	10.1	10.2	8.8	9.4
27	10.2	7.6	8.8	10.1	8.6	9.2	10.6	9.5	9.9	9.8	8.6	9.2
28	9.4	7.2	8.1	10.6	8.8	9.5	10.5	9.6	10	9.9	8.8	9.2
29	9.4	7.2	8.0	10.0	8.9	9.3	10.6	9.7	10.0	10.0	8.8	9.4
30	9.8	7.2	8.0	10.3	8.9	9.5	10.6	9.7	9.9	10.4	9.1	9.5
31	8.7	7.2	7.9	---	---	---	10.6	9.6	10.0	10.1	9.0	9.5
MONTH	---	---	---	10.6	7.2	8.8	11.7	9.1	10.2	11.5	8.6	9.8

10133800 EAST CANYON CREEK NEAR JEREMY RANCH, UT--Continued

OXYGEN DISSOLVED, IN MG/L, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	9.9	9.1	9.4	10.0	8.7	9.3	---	---	---	10.6	7.2	8.9
2	9.8	9.1	9.3	10.1	8.7	9.3	---	---	---	10.6	7.5	9.1
3	10.0	9.1	9.4	9.9	8.8	9.3	---	9.1	---	10.1	7.5	8.8
4	10.0	9.0	9.3	10.3	9.0	9.5	11.0	8.9	9.8	10.3	7.2	8.7
5	9.9	9.0	9.3	10.3	8.9	9.5	10.6	8.7	9.6	10.0	7.3	8.5
6	9.7	8.8	9.2	10.5	9.2	9.7	10.1	8.8	9.4	10.1	6.6	8.4
7	9.3	8.8	9.1	10.3	9.2	9.5	10.2	8.6	9.4	9.7	6.5	8.0
8	9.3	8.6	8.9	10.3	8.8	9.6	10.4	8.8	9.5	10.0	7.1	8.5
9	9.4	8.7	9.0	10.5	9.2	9.7	10.3	8.6	9.3	9.8	6.4	8.2
10	9.5	8.8	9.1	10.6	9.3	9.8	10.0	8.5	9.2	8.7	6.5	7.6
11	9.5	8.8	9.0	10.6	9.3	9.8	10.3	8.4	9.3	8.6	6.2	7.5
12	9.5	8.9	9.1	10.3	9.3	9.7	10.2	8.1	9.1	8.5	5.3	7.1
13	9.6	8.6	9.1	10.2	9.3	9.7	10.4	7.9	9.1	8.2	4.7	6.7
14	9.4	8.4	8.8	10.3	9.4	9.8	10.4	7.6	8.9	7.8	4.9	6.1
15	10.1	8.2	8.9	10.3	9.3	9.7	10.2	7.6	8.8	9.3	5.0	7.2
16	9.3	8.6	9.0	10.3	9.2	9.7	11.1	8.3	9.7	9.5	6.7	8.0
17	9.4	8.5	8.9	10.3	9.2	9.6	11.1	8.4	9.8	9.7	6.4	8.0
18	9.4	8.6	9.0	10.2	9.1	9.6	11.5	9.1	10.2	9.2	6.0	7.5
19	9.8	8.6	9.1	10.4	8.9	9.6	11.7	9.1	10.4	8.9	6.0	7.4
20	10.1	8.9	9.2	10.5	9.3	9.8	12.0	9.2	10.5	8.6	6.1	7.2
21	10.1	8.9	9.3	10.9	9.2	10.0	12.1	8.7	10.5	8.7	6.7	7.8
22	9.6	8.5	9.0	10.5	8.8	9.6	11.8	8.0	10.0	9.5	7.8	8.6
23	9.4	8.5	8.9	10.1	8.8	9.4	11.5	8.0	9.6	9.7	7.4	8.7
24	9.8	8.6	9.0	10.3	8.8	9.5	11.8	8.2	9.9	9.7	7.6	8.5
25	10.1	8.5	9.1	10.2	8.7	9.5	11.8	8.0	9.7	10.1	7.1	8.6
26	10.0	8.6	9.3	10.7	8.7	9.7	11.0	7.3	9.1	10.1	7.0	8.5
27	10.3	8.8	9.3	10.4	8.6	9.5	10.8	7.6	9.1	10.1	7.1	8.4
28	10.3	8.8	9.3	10.3	8.7	9.6	11.0	7.8	9.4	10.1	7.1	8.4
29	---	---	---	10.3	8.7	9.6	10.8	7.2	9.0	10.1	7.1	8.5
30	---	---	---	---	---	---	10.4	7.1	8.7	9.9	6.2	8.1
31	---	---	---	---	---	---	---	---	---	9.2	6.2	7.5
MONTH	10.3	8.2	9.1	---	---	---	---	---	---	10.6	4.7	8.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	8.7	6.2	7.4	10.2	4.5	7.0	8.9	4.0	5.8	8.6	4.0	5.9
2	8.6	6.9	7.6	10.3	4.3	7.3	7.6	4.5	5.6	7.9	3.8	5.5
3	8.7	6.3	7.5	10.3	4.9	6.9	7.7	4.5	5.9	7.9	3.4	5.5
4	8.7	6.2	7.5	9.9	5.1	7.4	7.8	4.5	5.8	8.4	4.3	6.1
5	8.7	6.0	7.3	9.7	5.1	7.1	8.1	4.6	6.1	8.5	4.6	6.1
6	8.3	5.9	7.1	9.6	4.8	7.0	7.7	4.6	6.0	7.8	4.9	6.1
7	8.6	6.1	7.3	9.8	4.7	6.9	7.2	4.4	5.5	7.7	5.9	6.6
8	9.0	6.4	7.7	9.7	4.6	6.8	7.6	4.4	5.3	8.1	6.3	7.0
9	9.2	7.1	8.2	9.6	4.5	6.7	8.7	4.6	7.1	8.8	6.3	7.3
10	9.9	7.4	8.7	9.7	4.3	6.7	8.4	4.3	6.0	8.8	5.8	7.1
11	9.7	7.2	8.4	9.9	4.3	6.7	8.3	4.2	6.0	7.6	5.8	6.6
12	9.5	7.1	8.4	10.4	3.8	6.5	8.3	3.8	5.9	8.6	6.3	7.1
13	9.7	7.0	8.3	9.3	3.6	6.1	8.5	4.1	6.0	8.6	6.0	7.2
14	9.6	6.7	8.2	9.8	3.4	6.0	8.1	3.6	5.4	8.5	5.9	7.1
15	9.8	6.7	8.1	9.5	3.5	5.9	8.4	4.2	5.8	8.5	5.9	7.1
16	9.9	6.8	8.1	9.6	3.5	5.8	8.3	4.0	5.8	8.3	5.9	6.8
17	10.0	6.8	8.2	9.0	3.6	5.6	7.9	3.7	5.4	8.4	6.6	7.5
18	9.5	6.7	8.1	8.8	4.0	5.9	8.2	3.7	5.6	8.8	6.9	7.7
19	9.7	6.7	7.9	8.4	3.7	5.8	7.7	3.6	5.2	9.1	6.6	7.8
20	9.7	7.0	8.0	7.9	3.7	5.4	7.6	3.0	4.7	9.0	6.7	7.7
21	9.9	6.1	7.8	8.0	3.6	5.5	8.0	3.6	5.4	8.9	6.7	7.6
22	9.8	6.1	7.7	8.1	3.6	5.3	8.1	3.7	5.4	9.0	6.5	7.7
23	9.9	6.1	7.9	8.0	3.6	5.3	7.7	3.5	5.4	9.1	6.5	7.6
24	9.8	5.8	7.7	8.1	3.5	5.2	7.6	3.5	5.3	9.1	6.5	7.6
25	10.0	5.7	7.6	8.0	3.9	5.5	7.7	3.5	5.4	9.5	6.5	7.6
26	9.7	5.7	7.6	8.0	4.0	5.7	8.2	3.5	5.6	8.8	6.4	7.5
27	10.0	5.6	7.6	7.9	4.2	5.8	8.1	3.3	5.3	9.2	6.6	7.7
28	9.8	5.5	7.5	8.1	4.2	5.9	8.9	3.7	5.8	8.9	6.7	7.6
29	10.1	5.5	7.5	8.1	4.4	5.9	8.7	3.7	5.8	8.9	6.7	7.5
30	10.1	5.4	7.5	8.3	4.4	5.9	8.9	3.7	5.9	11.5	6.8	7.8
31	---	---	---	8.4	4.1	5.8	8.7	4.0	5.9	---	---	---
MONTH	10.1	5.4	7.8	10.4	3.4	6.2	8.9	3.0	5.7	11.5	3.4	7.1

WEBER RIVER BASIN

10133800 EAST CANYON CREEK NEAR JEREMY RANCH, UT--Continued

PH, IN STANDARD UNITS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	8.2	7.9	8.0	7.9	7.8	7.6	7.7	7.6	7.7
2	---	---	---	8.2	8.0	8.1	8.0	7.8	7.7	7.7	7.6	7.6
3	---	---	---	8.2	8.0	8.1	8.0	7.8	7.7	7.7	7.6	7.7
4	---	---	---	8.3	8.0	8.1	8.0	7.8	7.7	7.8	7.7	7.7
5	---	---	---	8.3	8.0	8.1	7.9	7.8	7.7	7.8	7.6	7.7
6	---	---	---	8.3	7.9	8.1	8.0	7.8	7.8	7.8	7.7	7.7
7	---	---	---	8.2	7.9	8.0	8.0	7.8	7.8	7.8	7.7	7.7
8	---	---	---	8.3	8.0	8.1	7.9	7.7	7.7	7.8	7.7	7.7
9	---	---	---	8.3	7.9	8.1	7.9	7.7	7.7	7.9	7.7	7.8
10	---	---	---	8.1	7.9	8.0	7.9	7.7	7.7	7.9	7.7	7.8
11	---	---	---	8.2	7.9	8.0	7.9	7.7	7.7	7.9	7.7	7.8
12	---	---	---	8.2	7.9	8.0	7.9	7.7	7.7	8.0	7.6	7.8
13	---	---	---	8.1	7.9	8.0	7.8	7.7	7.7	7.9	7.7	7.8
14	---	---	---	8.3	7.9	8.0	7.8	7.7	7.6	7.9	7.6	7.8
15	---	---	---	8.2	7.8	8.0	7.8	7.7	7.7	7.9	7.7	7.8
16	---	---	---	8.1	7.8	7.9	7.8	7.6	7.7	7.8	7.7	7.7
17	8.2	8.0	8.1	8.1	7.8	8.0	7.8	7.6	7.7	7.8	7.7	7.7
18	8.2	7.9	8.1	8.1	7.8	7.9	7.8	7.6	7.7	7.7	7.6	7.7
19	8.2	8.0	8.1	8.1	7.8	8.0	7.8	7.6	7.7	7.6	7.5	7.6
20	8.2	8.0	8.1	8.1	7.7	7.9	7.8	7.6	7.7	7.6	7.5	7.6
21	8.2	8.0	8.1	8.2	7.7	7.9	7.8	7.6	7.7	7.6	7.5	7.6
22	8.3	8.0	8.1	7.8	7.7	7.7	7.7	7.6	7.7	7.7	7.6	7.6
23	8.3	8.0	8.1	8.0	7.7	7.8	7.7	7.6	7.7	7.7	7.6	7.6
24	8.2	8.0	8.1	7.9	7.7	7.8	7.7	7.6	7.6	7.7	7.6	7.6
25	8.3	8.0	8.1	7.8	7.5	7.7	7.7	7.6	7.6	7.7	7.6	7.6
26	8.3	8.0	8.1	7.8	7.6	7.7	7.6	7.6	7.6	7.7	7.6	7.6
27	8.3	8.0	8.1	8.0	7.5	7.7	7.6	7.5	7.6	7.7	7.6	7.6
28	8.3	7.9	8.1	7.9	7.7	7.6	7.6	7.5	7.6	7.7	7.6	7.6
29	8.3	7.9	8.0	7.9	7.7	7.6	7.6	7.6	7.6	7.6	7.5	7.6
30	8.2	7.9	8.0	7.9	7.8	7.6	7.6	7.6	7.6	7.6	7.5	7.6
31	8.1	7.8	8.0	---	---	---	7.7	7.6	7.6	7.6	7.5	7.5
MONTH	---	---	---	8.3	7.5	7.9	8.0	7.5	7.7	8.0	7.5	7.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	7.6	7.5	7.5	7.8	7.7	7.7	7.6	7.4	7.4	8.4	7.6	8.0
2	7.6	7.5	7.6	7.7	7.6	7.7	8.3	7.5	7.9	8.4	7.6	8.0
3	7.6	7.5	7.6	7.7	7.5	7.6	7.8	7.7	7.8	8.2	7.6	7.9
4	7.6	7.5	7.6	7.7	7.5	7.6	7.9	7.6	7.7	8.2	7.5	7.9
5	7.6	7.5	7.6	7.7	7.5	7.6	7.9	7.7	7.8	8.2	7.6	7.9
6	7.6	7.5	7.6	7.7	7.6	7.6	7.9	7.7	7.8	8.2	7.6	7.8
7	7.6	7.5	7.5	7.7	7.6	7.6	8.0	7.7	7.8	8.2	7.6	7.9
8	7.6	7.5	7.6	7.6	7.5	7.6	8.1	7.7	7.8	8.2	7.5	7.9
9	7.6	7.5	7.5	7.6	7.5	7.5	8.1	7.7	7.9	8.2	7.6	7.9
10	7.6	7.5	7.5	7.7	7.5	7.6	8.1	7.8	7.9	8.0	7.6	7.8
11	7.6	7.5	7.5	7.9	7.6	7.7	8.2	7.7	8.0	8.2	7.6	7.8
12	7.6	7.5	7.6	7.8	7.6	7.7	8.3	7.8	8.0	8.3	7.6	7.9
13	7.6	7.6	7.6	7.8	7.6	7.6	8.4	7.8	8.1	8.4	7.6	8.0
14	7.6	7.6	7.6	7.8	7.6	7.7	8.5	7.8	8.1	8.4	7.6	8.0
15	7.7	7.6	7.6	7.8	7.5	7.6	8.3	7.8	8.0	8.5	7.6	8.0
16	7.7	7.6	7.6	7.8	7.6	7.7	8.4	7.8	8.1	8.6	7.7	8.1
17	7.7	7.6	7.6	7.8	7.6	7.7	8.3	7.8	8.0	8.6	7.7	8.1
18	7.7	7.6	7.6	7.8	7.6	7.7	8.4	7.8	8.1	8.6	7.7	8.1
19	7.7	7.6	7.7	7.8	7.5	7.7	8.4	7.8	8.0	8.5	7.6	8.0
20	7.8	7.7	7.7	7.8	7.6	7.7	8.5	7.8	8.1	8.5	7.6	8.0
21	7.8	7.7	7.7	7.9	7.7	7.8	8.4	7.8	8.1	8.1	7.6	7.8
22	7.7	7.6	7.7	7.8	7.7	7.7	8.4	7.7	8.0	8.3	7.6	7.9
23	7.7	7.6	7.6	7.9	7.6	7.7	8.5	7.7	8.0	8.4	7.6	8.0
24	7.7	7.6	7.6	7.8	7.6	7.7	8.5	7.7	8.1	8.5	7.6	8.0
25	7.7	7.6	7.6	7.9	7.6	7.7	8.5	7.6	8.0	8.6	7.6	8.1
26	7.7	7.6	7.7	7.9	7.7	7.8	8.5	7.7	8.1	8.6	7.6	8.1
27	7.8	7.6	7.7	7.9	7.6	7.7	8.3	7.7	8.0	8.5	7.5	8.0
28	7.8	7.6	7.7	7.9	7.6	7.7	8.3	7.6	7.9	8.5	7.5	8.0
29	---	---	---	7.8	7.6	7.7	8.3	7.6	7.9	8.6	7.5	8.0
30	---	---	---	7.7	7.3	7.6	8.4	7.6	8.0	8.6	7.5	8.0
31	---	---	---	7.5	7.4	7.4	---	---	---	8.6	7.5	8.0
MONTH	7.8	7.5	7.6	7.9	7.3	7.7	8.5	7.4	7.9	8.6	7.5	8.0

10133800 EAST CANYON CREEK NEAR JEREMY RANCH, UT--Continued

PH, IN STANDARD UNITS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	8.3	7.5	7.9	8.5	7.7	8.0	8.4	7.5	7.8	7.8	7.4	7.6
2	8.4	7.6	7.9	8.5	7.6	8.0	8.0	7.6	7.7	7.8	7.4	7.5
3	8.6	7.6	8.0	8.4	7.6	8.0	8.2	7.6	7.8	7.7	7.3	7.5
4	8.6	7.6	8.0	8.5	7.7	8.0	8.2	7.6	7.8	7.9	7.4	7.6
5	8.5	7.6	8.0	8.4	7.6	8.0	8.3	7.6	7.9	8.0	7.5	7.7
6	8.5	7.6	8.0	8.4	7.6	8.0	8.1	7.6	7.8	7.9	7.5	7.7
7	8.5	7.6	8.0	8.4	7.6	8.0	7.8	7.5	7.6	7.8	7.6	7.7
8	8.4	7.6	8.0	8.4	7.6	8.0	7.9	7.5	7.6	8.0	7.7	7.8
9	8.4	7.7	8.0	8.5	7.6	8.0	8.1	7.7	8.0	8.1	7.7	7.9
10	8.3	7.7	8.0	8.4	7.6	8.0	8.1	7.6	7.8	8.1	7.7	7.8
11	8.3	7.7	8.0	8.5	7.6	8.0	8.1	7.6	7.8	7.9	7.6	7.7
12	8.2	7.6	7.9	8.4	7.6	7.9	8.1	7.6	7.8	8.0	7.6	7.8
13	8.3	7.6	7.9	8.4	7.5	7.9	8.1	7.5	7.8	8.1	7.7	7.9
14	8.2	7.6	7.9	8.3	7.5	7.9	7.9	7.4	7.6	8.1	7.7	7.8
15	8.2	7.6	7.9	8.5	7.5	7.9	8.0	7.5	7.7	8.1	7.6	7.8
16	8.2	7.5	7.9	8.6	7.5	7.9	8.0	7.5	7.7	7.9	7.6	7.7
17	8.2	7.6	7.9	8.5	7.6	7.9	7.8	7.4	7.6	8.0	7.7	7.8
18	8.2	7.5	7.9	8.5	7.6	8.0	7.9	7.4	7.6	8.1	7.8	7.9
19	8.3	7.5	7.9	8.4	7.6	8.0	7.9	7.4	7.6	8.2	7.8	7.9
20	8.1	7.6	7.8	8.4	7.6	7.9	7.8	7.4	7.5	8.1	7.8	7.9
21	8.4	7.9	8.2	8.4	7.6	8.0	8.0	7.4	7.6	8.1	7.8	7.9
22	8.3	7.8	8.0	8.4	7.6	7.9	7.9	7.4	7.6	8.0	7.7	7.9
23	8.3	7.8	8.1	8.4	7.6	7.9	7.8	7.3	7.5	8.1	7.7	7.8
24	8.4	7.8	8.1	8.4	7.6	7.9	7.7	7.3	7.5	8.1	7.7	7.9
25	8.4	7.7	8.0	8.4	7.6	7.9	7.8	7.3	7.5	8.3	7.7	7.9
26	8.4	7.7	8.0	8.4	7.6	7.9	7.9	7.3	7.6	8.1	7.7	7.8
27	8.3	7.7	8.0	8.3	7.6	7.9	7.8	7.3	7.5	8.1	7.7	7.8
28	8.4	7.7	8.0	8.4	7.6	7.9	8.0	7.4	7.6	8.2	7.7	7.9
29	8.4	7.7	8.0	8.4	7.6	7.9	7.9	7.4	7.6	8.1	7.7	7.9
30	8.5	7.7	8.0	8.3	7.6	7.9	8.0	7.4	7.6	8.1	7.7	7.9
31	---	---	---	8.3	7.5	7.8	7.9	7.4	7.6	---	---	---
MONTH	8.6	7.5	8.0	8.6	7.5	7.9	8.4	7.3	7.7	8.3	7.3	7.8

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	1120	942	1050	1740	1530	1600	1290	1130	1210
2	---	---	---	1120	935	1040	1980	1530	1720	1430	1230	1320
3	---	---	---	1070	893	1010	2030	1720	1840	1350	1160	1270
4	---	---	---	1060	871	996	2160	1830	1980	1300	1170	1230
5	---	---	---	1040	909	988	2020	1720	1850	1400	1140	1280
6	---	---	---	1050	918	989	1800	1610	1710	1240	1080	1190
7	---	---	---	1080	880	984	2180	1660	1990	1510	1100	1290
8	---	---	---	1110	905	1000	2270	1500	1910	1560	1390	1450
9	---	---	---	1050	893	982	1620	1440	1520	1640	1380	1510
10	---	---	---	1040	885	982	1490	1340	1410	1580	1410	1480
11	---	---	---	1040	890	972	1370	1260	1320	1510	1320	1410
12	---	---	---	1010	870	962	1370	1190	1280	1580	1210	1410
13	---	---	---	1060	880	960	1380	1220	1310	1550	1240	1390
14	---	---	---	1020	868	959	1460	1200	1340	1670	1210	1460
15	---	---	---	1020	855	946	1500	1320	1440	1560	1300	1450
16	---	---	---	987	850	940	1530	1380	1440	1480	1290	1410
17	---	---	---	984	844	929	1420	1290	1340	1500	1300	1410
18	1220	927	1110	981	844	936	1360	1210	1290	1450	1270	1380
19	1210	960	1100	1030	854	939	1350	1150	1270	1470	1290	1400
20	1220	917	1090	1150	838	987	1420	1260	1340	1440	1240	1370
21	1170	922	1080	1030	848	965	1460	1250	1350	1450	1200	1350
22	1190	879	1040	1050	769	919	1340	1190	1270	1480	1170	1380
23	1180	840	1010	1440	960	1170	1450	1250	1350	1480	1250	1400
24	1260	905	1090	1420	1130	1310	1470	1300	1380	1410	1210	1340
25	1190	882	1050	1700	1310	1490	1420	1310	1360	1420	1220	1340
26	1160	898	1050	1650	1460	1580	1420	1260	1350	1360	1140	1280
27	1130	878	1050	1700	1300	1510	1350	1220	1290	1610	1180	1400
28	1130	920	1050	1720	1300	1560	1300	1160	1250	1530	1280	1400
29	1190	895	1060	1680	1290	1450	1270	1110	1210	1530	1390	1470
30	1140	875	1020	1900	1600	1710	1240	1090	1190	1510	1350	1420
31	1090	820	950	---	---	---	1240	1090	1190	1450	1240	1350
MONTH	---	---	---	1900	769	1110	2270	1090	1450	1670	1080	1370

WEBER RIVER BASIN

10133800 EAST CANYON CREEK NEAR JEREMY RANCH, UT--Continued

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	1370	1210	1290	1480	1240	1350	855	629	770	980	924	951
2	1350	1170	1290	1500	1200	1370	862	624	752	950	918	930
3	1340	1170	1270	1450	1160	1320	864	624	781	950	917	928
4	1360	1150	1280	1390	1080	1260	889	728	818	929	908	916
5	1340	1160	1270	1450	1080	1220	895	727	818	908	881	890
6	1290	1110	1220	1360	1170	1260	912	749	837	882	849	864
7	1340	1110	1240	2040	1190	1520	952	827	894	870	786	817
8	1590	1180	1350	1900	1290	1590	1040	870	932	787	746	759
9	1740	1320	1520	1830	1570	1720	1060	983	1010	773	732	752
10	1610	1330	1510	1820	1560	1670	1020	963	990	784	742	756
11	1620	1350	1500	1910	1610	1710	982	945	965	812	736	780
12	1530	1270	1450	1710	1540	1600	1010	965	982	790	764	777
13	1500	1270	1390	2500	1660	2010	994	955	973	850	764	786
14	1390	1260	1320	2320	1950	2120	973	942	959	850	772	816
15	1420	1210	1330	2420	1860	2120	1020	945	968	799	719	746
16	1430	1250	1350	2050	1750	1860	1230	959	1080	761	716	734
17	1560	1240	1400	2010	1520	1710	1270	1030	1100	721	679	697
18	1710	1440	1560	2210	1440	1780	1160	1070	1090	712	547	670
19	1660	1470	1540	2330	1440	1840	1330	1060	1180	668	622	642
20	3110	1460	2260	2250	1420	1800	1450	1170	1290	642	476	603
21	2570	2040	2220	1890	1680	1770	1340	1100	1210	641	550	590
22	2140	1920	2040	2490	1580	1770	1100	1060	1080	689	620	647
23	1920	1660	1760	1850	1510	1640	1070	1030	1050	690	607	656
24	1670	1550	1620	2270	1770	1990	1070	1000	1040	693	664	676
25	1850	1400	1610	1790	1580	1710	1040	994	1020	713	494	681
26	1660	1370	1550	1680	1550	1600	1030	981	1010	713	523	697
27	1570	1250	1420	1630	1350	1520	1040	983	1000	732	523	695
28	1510	1220	1360	1470	1230	1380	1010	975	988	737	663	701
29	---	---	---	1400	979	1240	1010	979	994	701	608	655
30	---	---	---	1380	1060	1300	1000	949	974	651	573	611
31	---	---	---	1220	767	1060	---	---	---	617	567	593
MONTH	3110	1110	1500	2500	767	1610	1450	624	985	980	476	742

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	608	578	592	1200	1090	1150	1420	1140	1270	1750	1450	1630
2	710	568	607	1270	1120	1180	1400	1170	1270	1940	1610	1770
3	656	611	626	1310	963	1180	1260	1080	1180	1940	1680	1830
4	672	627	649	1150	1010	1090	1280	1070	1190	1690	1440	1570
5	664	625	648	1140	1040	1090	1300	1120	1230	1570	1110	1350
6	680	606	644	1220	1030	1120	1420	1120	1300	1380	1100	1270
7	711	638	676	1210	1050	1130	1690	1200	1480	1310	1100	1220
8	730	686	709	1250	1070	1170	1690	1400	1530	1370	1020	1210
9	744	697	716	1380	1090	1210	1700	1500	1570	1410	1090	1210
10	783	705	751	1380	1190	1280	1640	1410	1500	1370	1160	1230
11	817	753	782	1430	1180	1280	1510	1300	1410	1300	1150	1220
12	883	768	812	1430	1200	1280	1500	1300	1410	1270	1080	1180
13	903	802	843	1320	1170	1260	1570	1290	1420	1240	1100	1190
14	919	827	862	1490	1260	1360	1800	1460	1640	1260	1100	1190
15	999	828	894	1320	1140	1230	1770	1480	1550	1290	1070	1200
16	1020	880	943	1360	1140	1250	1620	1450	1560	1330	1110	1200
17	1140	919	1000	1330	1090	1190	1820	1480	1700	1240	1070	1160
18	1100	937	1020	1230	905	1050	1790	1510	1620	1240	988	1140
19	1160	980	1030	1280	1030	1150	1770	1490	1640	1360	1150	1240
20	1130	991	1060	1220	1080	1160	1790	1270	1740	1350	1130	1230
21	---	---	---	1220	1120	1160	1680	1270	1480	1320	1160	1250
22	1060	989	1030	1220	1090	1170	1630	1310	1440	1430	1150	1280
23	1060	970	1020	1370	1050	1170	1630	1340	1490	1340	1160	1270
24	1050	966	1020	1190	1080	1150	1690	1370	1530	1360	1170	1270
25	1120	994	1050	1190	1050	1120	1670	1400	1540	1320	957	1120
26	1110	961	1010	1150	1040	1100	1580	1340	1500	1450	1040	1270
27	1140	989	1070	1190	1040	1120	1730	1430	1570	1320	1190	1230
28	1180	1090	1130	1220	1070	1130	1680	1410	1520	1280	1030	1160
29	1200	1130	1170	1240	1060	1150	1870	1460	1690	1250	1080	1160
30	1170	1100	1140	1260	1090	1180	1820	1520	1640	1230	1060	1140
31	---	---	---	1390	1210	1300	1820	1500	1630	---	---	---
MONTH	---	---	---	1490	905	1180	1870	1070	1490	1940	957	1280

10133800 EAST CANYON CREEK NEAR JEREMY RANCH, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	9.9	6.2	8.2	2.6	0.1	1.7	3.3	0.9	2.3
2	---	---	---	9.1	4.7	7.1	3.2	0.9	2.0	3.7	0.8	2.2
3	---	---	---	8.5	3.2	6.5	2.5	0.3	1.7	3.1	0.5	2.0
4	---	---	---	8.5	3.4	6.3	2.9	0.2	1.6	3.2	0.7	1.9
5	---	---	---	9.1	5.8	7.7	2.3	0.3	1.5	3.4	0.6	2.0
6	---	---	---	10.4	7.0	9.0	2.5	0.3	1.6	3.0	0.2	2.1
7	---	---	---	9.7	6.9	8.8	2.3	0.2	1.4	3.1	0.5	2.1
8	---	---	---	8.6	5.3	6.9	2.3	0.0	1.4	2.8	0.4	1.9
9	---	---	---	7.6	3.4	5.5	2.2	0.5	1.4	2.9	0.4	2.0
10	---	---	---	7.1	3.7	5.5	2.4	0.3	1.6	2.9	0.3	1.9
11	---	---	---	7.6	3.2	5.7	2.1	0.0	1.3	3.5	0.2	2.0
12	---	---	---	8.4	4.5	6.9	2.3	0.2	1.2	3.8	0.6	2.1
13	---	---	---	7.2	5.2	6.3	2.7	0.6	1.7	3.5	0.5	2.1
14	---	---	---	8.1	4.2	6.4	2.7	0.5	1.8	3.4	0.8	2.2
15	---	---	---	7.1	3.9	5.7	2.8	0.5	1.7	3.4	0.6	2.1
16	---	---	---	6.6	2.3	4.8	2.4	0.3	1.6	3.1	0.6	1.9
17	11.5	9.4	---	5.9	2.0	4.3	2.7	0.9	1.8	3.0	0.5	2.0
18	10.9	7.3	9.3	6.4	3.3	4.9	2.5	0.0	1.7	3.0	0.4	2.0
19	10.6	4.9	8.1	6.5	3.2	4.8	2.7	0.5	1.7	3.2	0.6	2.1
20	10.9	6.0	8.6	5.3	1.4	3.8	2.8	0.4	1.6	3.1	0.6	2.3
21	10.3	5.6	8.4	5.8	2.0	4.3	2.8	0.0	1.7	3.3	0.6	2.3
22	10.3	5.5	8.3	5.4	1.7	3.7	3.1	0.3	1.7	3.0	0.6	2.1
23	9.5	6.2	7.8	4.4	0.8	2.5	3.1	0.3	1.8	2.8	0.2	1.9
24	8.5	3.1	6.2	2.6	0.3	1.7	3.5	0.6	1.9	2.6	0.1	1.7
25	6.8	3.6	5.2	3.6	0.6	2.3	3.2	0.7	1.9	2.8	0.5	2.0
26	7.4	1.9	5.3	3.2	0.7	1.9	3.3	0.5	2.1	2.9	0.3	2.1
27	9.3	2.8	6.6	2.6	0.4	1.6	3.4	0.9	2.3	3.5	0.9	2.3
28	11.0	6.5	9.2	3.0	0.2	1.7	3.6	0.9	2.4	2.6	0.9	1.8
29	11.4	7.2	9.6	2.9	0.2	1.8	3.4	0.5	2.3	2.1	0.7	1.4
30	9.7	6.8	8.7	2.8	0.5	1.7	3.2	0.9	2.4	2.2	0.2	1.2
31	9.4	6.8	8.2	---	---	---	3.5	0.8	2.4	2.0	0.6	1.3
MONTH	---	---	---	10.4	0.2	4.9	3.6	0.0	1.8	3.8	0.1	2.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.1	0.4	1.2	2.8	0.1	1.5	7.7	0.8	3.6	12.0	7.1	9.6
2	2.3	0.2	1.5	2.7	0.8	1.6	8.7	1.3	5.0	12.9	5.3	9.0
3	2.4	0.6	1.5	3.2	0.0	1.6	8.9	1.7	5.4	11.6	6.6	9.2
4	2.8	0.1	1.5	2.7	0.5	1.6	10.0	2.4	6.5	13.5	6.6	10.2
5	2.4	0.4	1.6	3.1	0.4	1.5	10.5	3.7	7.3	13.4	8.4	11.1
6	2.6	0.5	1.7	2.5	0.2	1.6	9.3	5.3	7.5	15.3	6.9	11.0
7	2.7	0.8	1.8	3.2	0.0	1.8	10.5	4.8	7.7	13.8	8.7	11.2
8	2.7	1.0	2.0	4.1	0.7	1.8	9.9	4.5	7.2	11.7	4.5	8.2
9	3.2	1.0	2.2	2.8	0.4	1.6	9.4	4.8	7.2	12.1	3.7	8.1
10	2.8	0.5	1.9	2.7	0.4	1.7	10.4	6.4	8.2	10.2	6.5	7.6
11	3.4	1.2	2.2	3.3	0.8	2.1	10.8	5.1	7.8	11.0	5.3	7.8
12	3.3	0.5	2.1	2.7	0.4	1.9	12.1	6.2	8.9	14.7	5.2	9.8
13	3.3	0.8	2.2	1.8	0.7	1.3	12.2	5.7	9.2	15.7	7.4	11.8
14	3.1	1.5	2.4	2.7	0.6	1.5	12.4	6.7	9.5	16.2	9.6	13.0
15	3.8	1.2	2.6	2.6	0.6	1.6	11.1	5.8	8.5	15.4	8.5	12.3
16	3.9	0.9	2.6	2.5	0.4	1.7	9.0	2.9	5.7	16.2	9.8	12.9
17	4.1	1.5	2.8	2.5	0.4	1.7	7.5	2.9	4.4	16.4	7.9	12.3
18	4.0	1.9	2.8	3.5	0.6	1.8	8.0	1.9	4.8	17.3	9.3	13.4
19	3.7	1.2	2.6	3.9	0.9	1.9	7.6	3.3	5.4	17.0	9.0	13.3
20	3.2	0.7	2.2	2.8	0.6	1.4	7.3	3.0	5.1	16.1	9.9	13.1
21	3.7	0.5	2.1	3.3	0.1	2.0	10.1	2.8	6.2	13.4	7.8	10
22	4.0	0.3	2.4	5.0	1.1	3.3	12.3	3.8	7.9	10.2	5.2	7.7
23	3.5	0.9	2.3	5.7	1.4	3.6	11.8	5.5	9.0	11.7	4.6	8.0
24	3.4	1.0	2.2	6.2	0.6	3.1	11.2	4.5	8.1	13.8	6.5	9.9
25	4.6	0.4	2.1	6.4	1.6	3.7	11.1	5.3	8.2	15.2	7.0	11.3
26	2.7	0.9	1.8	6.6	0.5	3.5	13.1	6.7	10	16.7	8.7	12.6
27	2.7	0.2	1.5	7.0	1.2	3.7	10.8	7.5	8.6	17.6	9.6	13.6
28	2.7	0.1	1.5	6.7	0.7	3.1	12.1	5.7	8.9	17.6	9.9	13.8
29	---	---	---	6.3	0.4	2.8	14.1	6.2	10.2	17.8	10.3	14.1
30	---	---	---	7.1	0.6	3.0	13.9	7.3	10.9	19.3	10.3	14.9
31	---	---	---	7.0	0.7	3.3	---	---	---	18.9	11.1	15.2
MONTH	4.6	0.1	2.0	7.1	0.0	2.2	14.1	0.8	7.4	19.3	3.7	11.2

WEBER RIVER BASIN

10133800 EAST CANYON CREEK NEAR JEREMY RANCH, UT--Continued

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	16.3	11.8	13.4	22.1	15.7	19.0	21.7	15.5	18.6	18.8	13.8	16.5
2	14.6	9.9	12.0	22.4	15.7	19.0	19.5	17.2	18.0	19.0	14.2	16.7
3	16.6	9.4	12.8	20.5	17.2	18.8	21.8	16.0	18.8	17.8	14.4	16.3
4	17.4	9.2	13.2	22.2	15.3	18.8	20.8	16.3	18.6	18.5	14.8	16.6
5	18.0	9.3	13.8	22.0	15.9	18.9	20.5	15.1	17.8	18.6	14.6	16.7
6	19.1	10.8	15.1	22.4	16.2	19.2	18.6	15.2	17.2	17.0	15.3	16.1
7	19.8	12.2	16.1	22.3	16.8	19.4	19.5	15.4	17.5	15.7	14.1	15.0
8	17.9	12.2	15.0	23.2	16.6	19.8	18.4	14.8	---	15.6	12.9	14.2
9	15.2	10.0	12.5	23.4	15.9	19.5	19.0	14.9	---	18.1	12.1	14.9
10	15.4	7.1	11.2	23.7	16.1	19.7	19.1	12.9	16.4	18.6	12.3	15.4
11	16.6	8.3	12.4	23.9	16.6	20.1	19.7	13.4	16.9	16.5	14.6	15.4
12	17.9	9.6	13.7	24.0	16.7	20.1	19.5	14.0	17.1	16.1	13.5	14.9
13	19.2	11.1	15.0	24.0	16.6	20.3	19.5	13.8	16.9	18.4	12.9	15.4
14	20.2	11.8	15.9	22.2	16.4	19.5	19.5	14.3	17.0	18.5	12.5	15.5
15	20.1	12.9	16.3	23.4	17.6	20.5	19.8	13.4	16.8	18.4	12.5	15.6
16	20.8	13.0	16.8	23.8	17.7	20.4	19.7	14.0	17.1	16.4	13.4	14.9
17	20.5	13.6	16.9	23.2	17.7	20.0	19.2	14.1	16.9	14.0	11.8	13.2
18	20.1	13.1	16.8	21.7	16.9	19.3	19.4	14.3	17.1	14.9	10.9	12.8
19	21.0	14.9	17.7	22.4	16.4	19.4	19.3	14.3	17.0	15.6	9.9	12.7
20	17.5	13.9	---	22.1	16.8	19.6	19.2	15.8	17.2	16.2	10.2	13.1
21	20.9	18.0	---	22.7	15.8	19.4	19.3	14.6	17.1	16.2	10.8	13.4
22	20.4	15.2	17.7	21.6	15.7	18.6	19.2	14.3	17.0	15.5	9.5	12.7
23	21.0	14.1	17.5	22.4	16.9	19.3	19.1	14.7	17.1	15.6	10.1	12.8
24	21.9	14.6	18.2	23.1	17.0	19.6	19.0	14.3	16.9	15.8	10.3	13.0
25	22.2	14.7	18.4	24.0	18.5	20.7	19.3	14.2	17.0	15.6	11.3	13.4
26	20.9	15.2	18.2	22.6	17.0	19.8	19.4	14.2	17.0	15.5	10.3	13.2
27	21.6	15.6	18.7	21.5	15.8	18.8	18.9	15.1	17.0	13.8	10.1	12.3
28	22.2	15.4	18.9	21.4	15.3	18.5	19.1	14.9	17.2	14.8	10.7	12.9
29	21.4	15.2	18.6	21.6	14.6	18.2	19.3	15.6	17.4	14.6	11.6	13.1
30	22.1	15.1	18.8	21.6	14.6	18.3	19.5	15.3	17.3	13.7	11.2	12.4
31	---	---	---	21.7	15.3	18.4	19.1	14.5	17.0	---	---	---
MONTH	22.2	7.1	---	24.0	14.6	19.4	21.8	12.9	---	19.0	9.5	14.4

10134500 EAST CANYON CREEK NEAR MORGAN, UT

LOCATION.--Lat 40°55'21", long 111°36'23", in SW¹/₄NW¹/₄NW¹/₄ sec. 10, T. 2 N., R. 3 E., Morgan County, Hydrologic Unit 16020102, on right bank 2,500 ft downstream from East Canyon Dam, 2.4 mi upstream from Sheep Canyon, and 8.7 mi southeast of Morgan.

DRAINAGE AREA.--144 mi².

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only prior to October 1937, published in WSP 1314.

GAGE.--Water-stage recorder and Lyman rectangular weir. Elevation of gage is 5,460 ft above NGVD of 1929, from river-profile map.

REVISED RECORDS.--WSP 1634, WDR UT-77-1: Drainage area.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversions between station and East Canyon Reservoir, which completely regulates flow.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 872 ft³/s, May 4, 1952, gage height, 3.49 ft; minimum daily, 0.2 ft³/s, Dec 19, 29, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 157 ft³/s, Aug 15, gage height, 1.01 ft; minimum daily discharge, 3.4 ft³/s, Jan 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	6.2	5.4	5.5	4.7	4.7	6.2	7.0	7.8	66	71	147
2	32	6.2	5.5	5.0	4.7	4.7	6.2	7.0	7.8	66	71	147
3	32	6.2	5.5	3.7	4.7	4.7	6.2	7.0	7.8	66	71	128
4	32	5.9	5.3	4.2	4.7	4.7	6.2	7.1	7.8	66	71	119
5	32	5.5	5.2	4.8	4.7	4.7	6.2	7.8	7.8	66	71	102
6	32	5.5	5.3	4.2	4.7	4.7	6.2	7.1	7.8	66	71	96
7	32	5.5	5.4	3.4	4.7	5.2	6.2	6.9	7.8	67	71	96
8	32	5.5	5.1	3.5	4.6	4.9	6.2	6.9	7.8	68	71	96
9	32	5.4	5.4	4.3	4.1	4.9	6.4	6.9	7.8	67	89	78
10	32	4.9	5.1	4.7	4.1	5.1	6.5	7.0	7.8	66	95	71
11	32	4.8	5.5	4.7	4.1	5.4	6.4	7.0	7.9	66	95	55
12	27	4.7	5.2	4.7	4.1	e5.5	6.5	6.9	14	71	112	48
13	25	4.8	5.2	5.0	4.1	e5.5	7.0	7.0	17	73	119	39
14	25	4.7	5.4	5.5	4.1	e5.5	6.4	7.0	15	73	140	36
15	18	4.7	4.8	5.5	4.1	5.5	6.2	7.0	15	73	151	36
16	15	5.2	4.7	5.4	4.1	5.5	6.2	7.0	15	73	150	31
17	11	5.5	4.7	4.9	5.4	5.5	6.2	7.1	33	73	149	29
18	8.6	5.5	4.7	5.5	5.8	5.5	6.2	7.5	40	73	150	29
19	7.0	5.5	4.8	5.5	6.1	5.5	6.2	7.8	40	73	149	29
20	6.4	5.5	4.7	5.5	5.6	5.5	6.2	7.8	40	73	149	32
21	6.2	5.5	4.7	5.5	5.5	5.5	6.2	7.2	40	73	148	33
22	6.2	5.6	4.7	5.6	5.5	5.5	6.9	7.0	40	73	148	33
23	6.3	5.5	5.0	5.5	5.5	5.8	7.0	7.0	40	73	149	28
24	6.2	5.5	5.5	5.5	5.2	6.0	7.0	7.0	61	73	149	26
25	6.2	5.5	5.5	5.5	4.7	5.3	7.0	7.1	70	73	148	20
26	6.2	5.5	5.5	5.0	4.7	5.5	7.0	7.8	69	72	148	17
27	6.2	5.5	5.9	5.5	4.7	5.7	7.0	7.8	68	72	148	14
28	6.2	5.5	6.2	5.8	4.7	5.7	7.0	7.8	68	72	148	13
29	6.2	5.5	6.2	6.1	---	5.8	7.0	7.8	68	72	148	12
30	6.3	5.5	5.7	4.7	---	5.9	7.0	7.8	66	71	148	12
31	6.3	---	5.5	4.7	---	6.2	---	7.8	---	71	147	---
TOTAL	563.5	162.8	163.3	154.9	133.7	166.1	195.1	224.9	904.9	2180	3745	1652
MEAN	18.18	5.427	5.268	4.997	4.775	5.358	6.503	7.255	30.16	70.32	120.8	55.07
MAX	32	6.2	6.2	6.1	6.1	6.2	7.0	7.8	70	73	151	147
MIN	6.2	4.7	4.7	3.4	4.1	4.7	6.2	6.9	7.8	66	71	12
AC-FT	1120	323	324	307	265	329	387	446	1790	4320	7430	3280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2002, BY WATER YEAR (WY)

	MEAN	25.82	14.10	15.18	17.34	26.28	45.65	70.69	84.63	100.4	109.2	110.3	68.55
MAX	170	114	210	206	254	337	269	397	378	248	206	172	
(WY)	1969	1970	1984	1984	1985	1986	1948	1952	1983	1964	1975	1983	
MIN	3.66	1.10	1.10	1.26	1.50	1.93	2.68	5.04	7.30	54.5	32.8	6.70	
(WY)	1960	1961	1961	1961	1961	1961	1961	1991	1967	1955	1941	1961	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1938 - 2002

ANNUAL TOTAL	16249.4	10246.2	
ANNUAL MEAN	44.52	28.07	57.51
HIGHEST ANNUAL MEAN			132
LOWEST ANNUAL MEAN			17.8
HIGHEST DAILY MEAN	189	151	768
LOWEST DAILY MEAN	4.4	3.4	0.20
ANNUAL SEVEN-DAY MINIMUM	4.6	4.0	1.1
ANNUAL RUNOFF (AC-FT)	32230	20320	41670
10 PERCENT EXCEEDS	161	73	153
50 PERCENT EXCEEDS	7.0	6.5	28
90 PERCENT EXCEEDS	4.7	4.7	4.7

e Estimated

WEBER RIVER BASIN

10136500 WEBER RIVER AT GATEWAY, UT

LOCATION.--Lat 41°08'13", long 111°49'54", in NE¹/₄SW¹/₄SW¹/₄ sec. 27, T. 5 N., R. 1 E., Morgan County, Hydrologic Unit 16020102, on left bank 400 ft downstream from tailrace of Gateway powerplant, 500 ft upstream from Union Pacific Railroad bridge, 1,200 ft downstream from Strawberry Creek, and 3,200 ft east of section house at Gateway.

DRAINAGE AREA.--1,627 mi².

PERIOD OF RECORD.--November 1889 to June 1893, July to December 1893 (gage heights only), August 1894 to September 1899, August to November 1900, January to October 1901, April to June 1903 (gage heights and discharge measurements only), July to August 1919, August 1920 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Uinta" 1889-1903.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,800 ft above NGVD of 1929, by barometer. October 13, 1889 to July 11, 1903, nonrecording gage at site 1.2 mi downstream at different datum. June 22, 1919 to October 22, 1929, water-stage recorder at site 900 ft upstream at different datum. October 22, 1929 to November 27, 1964, at sites 1,300 ft downstream at different datums. November 27, 1964 to September 30, 1996, at present site at datum 10.0 ft lower.

REMARKS.--Records good except for estimated days, which are fair. Many diversions for irrigation above and below station. Water diverted above station by Gateway Canal since July 1957, part of which returns to river above station through tailrace of Gateway hydro-electric powerplant. Flow regulated by Rockport, Echo, Lost Creek, and East Canyon Reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,980 ft³/s, May 31, 1896; minimum recorded, 18 ft³/s, Nov 13, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 962 ft³/s, Apr 27, gage height, 13.09 ft; minimum daily discharge, 45 ft³/s, Dec 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	114	64	62	e72	e68	322	679	311	168	432	164
2	194	103	61	53	79	57	354	645	314	186	298	173
3	199	97	74	49	79	53	341	643	267	181	298	173
4	207	94	76	55	e70	e63	338	648	233	170	228	167
5	207	92	76	54	e68	e67	367	706	203	197	193	161
6	229	86	88	56	e66	e72	398	725	221	191	194	214
7	230	88	118	62	e64	e78	379	673	238	188	178	254
8	232	87	104	66	e62	e89	366	e600	242	167	207	277
9	274	85	88	65	e60	e78	349	e477	241	157	242	292
10	226	77	82	63	e58	e77	442	e350	271	199	230	212
11	183	69	82	65	e56	e82	470	351	247	189	247	192
12	185	68	77	66	51	e87	427	305	195	176	245	163
13	152	61	67	67	49	e160	422	285	187	156	211	157
14	132	69	73	64	51	e142	450	270	209	168	201	136
15	126	71	73	60	49	e108	585	301	218	162	198	129
16	130	72	63	57	48	e99	665	314	178	161	204	137
17	116	66	51	53	54	e105	499	294	213	199	210	156
18	115	76	60	63	53	96	412	269	243	204	216	254
19	112	73	65	67	57	90	377	269	220	206	318	210
20	110	71	63	71	60	e88	339	280	172	182	286	179
21	106	74	60	74	67	e100	293	378	151	163	295	188
22	102	94	64	70	67	e117	263	697	192	169	242	e168
23	100	115	58	64	69	e185	260	487	202	198	212	e170
24	102	89	63	61	e74	287	279	380	178	185	176	e172
25	103	88	71	63	76	218	296	349	138	211	154	e173
26	102	79	60	68	74	192	366	308	164	264	191	186
27	102	75	45	69	62	241	773	268	218	255	218	198
28	98	71	50	76	e69	268	718	254	206	192	208	206
29	81	68	52	e65	---	277	587	261	175	204	200	190
30	78	74	57	e68	---	280	597	278	174	210	192	189
31	114	---	61	e70	---	298	---	296	---	199	174	---
TOTAL	4631	2446	2146	1966	1764	4222	12734	13040	6421	5857	7098	5640
MEAN	149.4	81.53	69.23	63.42	63.00	136.2	424.5	420.6	214.0	188.9	229.0	188.0
MAX	274	115	118	76	79	298	773	725	314	264	432	292
MIN	78	61	45	49	48	53	260	254	138	156	154	129
AC-FT	9190	4850	4260	3900	3500	8370	25260	25860	12740	11620	14080	11190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2002, BY WATER YEAR (WY)

	MEAN	242.8	207.1	220.1	236.2	290.3	506.4	983.5	1513	1122	536.7	451.2	356.7
MAX	896	548	1463	1330	1947	2575	3000	4798	4239	1161	828	1196	1196
(WY)	1985	1983	1984	1984	1986	1986	1986	1952	1983	1975	1983	1983	1983
MIN	57.9	58.0	43.6	45.7	49.2	67.8	105	281	214	189	156	62.3	62.3
(WY)	1993	1962	1993	1991	1993	1964	1977	1992	2002	2002	1924	1934	1934

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1921 - 2002

ANNUAL TOTAL	81218	67965	
ANNUAL MEAN	222.5	186.2	556.3
HIGHEST ANNUAL MEAN			1397
LOWEST ANNUAL MEAN			143
HIGHEST DAILY MEAN	1090	773	7390
LOWEST DAILY MEAN	40	45	32
ANNUAL SEVEN-DAY MINIMUM	41	51	35
ANNUAL RUNOFF (AC-FT)	161100	134800	403000
10 PERCENT EXCEEDS	417	349	1310
50 PERCENT EXCEEDS	208	168	352
90 PERCENT EXCEEDS	56	62	98

e Estimated

10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UT

LOCATION.--Lat 41°16'07", long 111°40'24", in SE¹/₄NE¹/₄SW¹/₄ sec. 12, T. 6 N., R. 2 E., Weber County, Hydrologic Unit 16020102, on right bank 0.5 mi downstream from Magpie Creek, 0.5 mi upstream from Huntsville Mountain Canal, 5.0 mi downstream from Causey Dam, and 5.0 mi east of Huntsville.

DRAINAGE AREA.--137 mi².

PERIOD OF RECORD.--March 1921 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,190 ft above NGVD of 1929, by barometer. Prior to August 14, 1934, at site 300 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. One small diversion above station. Flow regulated by Causey Reservoir since January 4, 1966.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft³/s, May 3, 1952, gage height, 5.98 ft; minimum, 9 ft³/s, Feb 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 433 ft³/s, May 7, gage height, 3.26 ft; minimum daily discharge, 33 ft³/s, Oct 20, 21, 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	37	38	41	e44	47	146	314	132	86	83	61
2	46	35	39	42	e44	49	153	307	144	85	83	60
3	44	35	40	41	e44	51	151	342	135	85	84	62
4	45	34	39	41	e45	50	150	355	93	84	83	64
5	45	34	40	41	e44	46	156	391	113	81	83	65
6	46	34	41	41	e44	45	158	409	110	78	82	66
7	45	35	41	42	e43	47	149	424	100	78	82	67
8	45	35	40	42	e43	47	147	403	107	80	79	68
9	46	35	39	42	42	48	142	339	98	81	76	64
10	46	34	40	43	42	46	174	299	88	81	75	62
11	47	34	40	43	42	47	167	275	93	78	75	60
12	46	34	39	43	42	50	165	241	88	78	75	59
13	44	34	39	42	42	65	173	217	73	77	74	57
14	43	34	41	42	42	60	187	218	77	77	71	55
15	40	34	e39	42	42	57	212	245	77	79	69	54
16	37	34	e43	42	42	57	187	248	75	81	64	54
17	37	34	e41	42	42	56	159	242	72	80	65	55
18	37	34	40	42	42	55	171	240	71	80	65	56
19	37	34	39	42	42	54	164	239	69	79	64	54
20	33	34	39	42	45	56	159	232	68	79	65	49
21	33	34	e40	42	45	61	159	239	68	79	69	44
22	33	42	e41	42	45	74	160	232	68	79	70	39
23	34	40	e41	41	47	98	168	208	68	79	66	37
24	34	40	e42	e41	48	107	168	185	69	79	62	37
25	34	42	e43	e42	47	102	169	167	71	79	61	37
26	34	41	e43	e42	49	101	176	136	75	78	65	37
27	34	40	e42	41	50	119	232	142	77	78	69	37
28	34	38	e42	42	47	125	235	154	76	77	68	37
29	34	38	e41	42	---	126	248	157	84	81	67	37
30	34	38	40	e42	---	129	302	154	86	84	63	38
31	41	---	40	e43	---	135	---	147	---	84	61	---
TOTAL	1233	1081	1252	1298	1236	2210	5287	7901	2625	2484	2218	1572
MEAN	39.77	36.03	40.39	41.87	44.14	71.29	176.2	254.9	87.50	80.13	71.55	52.40
MAX	47	42	43	43	50	135	302	424	144	86	84	68
MIN	33	34	38	41	42	45	142	136	68	77	61	37
AC-FT	2450	2140	2480	2570	2450	4380	10490	15670	5210	4930	4400	3120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2002, BY WATER YEAR (WY)

MEAN	42.88	40.45	43.03	43.59	51.91	95.79	274.8	431.2	165.9	72.59	59.86	49.34
MAX	86.0	94.0	145	108	216	419	704	931	554	149	117	104
(WY)	1985	1984	1984	1971	1986	1986	1986	1984	1983	1975	1984	1984
MIN	22.2	19.2	21.0	21.2	17.0	15.7	26.3	37.7	28.4	23.8	23.1	24.2
(WY)	1978	1978	1978	1977	1977	1977	1977	1934	1934	1934	1934	1934

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1922 - 2002

ANNUAL TOTAL	26767	30397	
ANNUAL MEAN	73.33	83.28	114.5
HIGHEST ANNUAL MEAN			260
LOWEST ANNUAL MEAN			36.8
HIGHEST DAILY MEAN	308	424	1640
LOWEST DAILY MEAN	33	33	13
ANNUAL SEVEN-DAY MINIMUM	34	34	13
ANNUAL RUNOFF (AC-FT)	53090	60290	82980
10 PERCENT EXCEEDS	132	168	271
50 PERCENT EXCEEDS	48	56	52
90 PERCENT EXCEEDS	38	37	32

e Estimated

10140100 OGDEN RIVER BELOW PINEVIEW RESERVOIR, NEAR HUNTSVILLE, UT

LOCATION.--Lat 41°15'16", long 111°51'18", in SE¹/₄NE¹/₄SE¹/₄ sec. 17, T. 6 N., R. 1 E., Weber County, Hydrologic Unit 16020102, on left bank 3,000 ft downstream from Pineview Dam, and 5.0 mi west of Huntsville.

DRAINAGE AREA.--323 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 4,760 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow extensively regulated by Pineview Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,430 ft³/s, May 5, 1999, gage height, 6.90 ft; minimum daily, 4.0 ft³/s, Jan 10, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 789 ft³/s, Jul 9, 11, gage height, 5.15 ft; minimum daily discharge, 7.5 ft³/s, Sep 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	11	12	12	12	12	33	27	106	349	39	14
2	91	11	12	11	12	12	38	26	103	356	39	12
3	61	11	12	12	12	12	35	24	97	364	24	12
4	35	11	12	12	11	e12	35	24	110	370	15	12
5	15	11	12	12	11	12	37	26	160	384	16	12
6	12	11	12	12	11	12	36	28	223	390	17	9.1
7	11	11	12	12	11	12	36	30	262	384	15	14
8	11	11	12	12	e11	12	31	29	276	590	14	10
9	11	12	12	12	11	12	29	24	250	770	15	10
10	11	12	12	12	12	12	46	27	222	769	16	10
11	11	12	12	12	12	12	32	28	215	770	14	11
12	e11	12	10	12	12	12	27	20	238	776	15	11
13	e11	12	11	12	11	14	25	20	294	758	15	11
14	e11	12	11	12	12	15	25	22	334	746	14	9.5
15	e11	12	11	12	11	14	26	24	303	741	13	10
16	e11	11	11	12	12	13	26	26	289	753	13	10
17	e11	12	e11	12	12	13	23	29	290	757	e13	10
18	e12	12	e12	13	12	12	21	82	295	748	12	10
19	e12	12	12	12	12	12	21	105	290	541	11	10
20	e12	11	12	12	12	12	22	134	292	388	12	22
21	e13	12	12	12	12	13	21	193	312	377	11	18
22	e12	13	12	12	12	15	23	339	316	381	12	8.2
23	e13	12	11	12	12	19	24	324	316	378	13	8.2
24	e13	e12	11	12	12	19	22	283	316	367	14	8.4
25	13	e12	11	12	12	12	20	227	318	198	14	8.1
26	13	12	11	12	12	12	20	160	362	68	14	7.8
27	12	12	11	12	12	18	39	107	356	11	14	8.2
28	11	11	11	12	12	22	38	93	335	24	13	7.5
29	11	12	11	12	---	25	31	100	328	47	12	7.6
30	11	12	11	12	---	27	27	96	347	41	12	11
31	14	---	12	13	---	29	---	100	---	37	14	---
TOTAL	662	350	357	373	328	460	869	2777	7955	13633	485	322.6
MEAN	21.35	11.67	11.52	12.03	11.71	14.84	28.97	89.58	265.2	439.8	15.65	10.75
MAX	155	13	12	13	12	29	46	339	362	776	39	22
MIN	11	11	10	11	11	12	20	20	97	11	11	7.5
AC-FT	1310	694	708	740	651	912	1720	5510	15780	27040	962	640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

	MEAN	13.79	10.02	21.45	15.09	34.62	124.0	187.3	313.0	207.1	149.5	121.4	48.22
MAX	23.8	14.4	170	80.6	175	475	613	1023	551	449	230	138	
(WY)	1993	1989	1992	1997	1997	1997	1998	1999	1998	2002	1991	1995	
MIN	8.44	7.38	6.45	6.01	6.30	7.47	10.5	23.5	32.8	22.8	18.6	10.8	
(WY)	1992	1990	1991	1992	1991	1991	1992	1992	1992	1992	2002	2002	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1989 - 2002

ANNUAL TOTAL	12297.1	28571.6	
ANNUAL MEAN	33.69	78.28	104.2
HIGHEST ANNUAL MEAN			234
LOWEST ANNUAL MEAN			29.2
HIGHEST DAILY MEAN	204	776	1370
LOWEST DAILY MEAN	7.0	7.5	4.0
ANNUAL SEVEN-DAY MINIMUM	7.5	8.0	4.2
ANNUAL RUNOFF (AC-FT)	24390	56670	75500
10 PERCENT EXCEEDS	78	314	283
50 PERCENT EXCEEDS	15	12	19
90 PERCENT EXCEEDS	9.6	11	7.9

e Estimated

10141000 WEBER RIVER NEAR PLAIN CITY, UT

LOCATION.--Lat 41°16'42", long 112°05'28", in NW¹/₄NW¹/₄NE¹/₄ sec. 8, T. 6 N., R. 2 W., Weber County, Hydrologic Unit 16020102, on upstream side of right highway bridge abutment, on State Highway 40, 1 mi downstream from Fourmile Creek, 1.5 mi south of Plain City, and 6 mi upstream from mouth.

DRAINAGE AREA.--2,081 mi².

PERIOD OF RECORD.--January 1904 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,207.10 ft above NGVD of 1929. Prior to August 29, 1949, nonrecording gage at same site and datum, and August 30, 1949 to June 22, 1966, water-stage recorder on right bank 50 ft upstream at same datum. Prior to October 1, 1986 at datum 10.0 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Practically entire flow is diverted during summer months for irrigation above station. Flow regulated by Rockport, Echo, Lost Creek, East Canyon, and Pine View Reservoirs; also diversion above station to Willard Bay Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft³/s, May 6, 1952, gage height, 19.01 ft datum then in use; practically no flow during latter part of several summers since 1915.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 524 ft³/s, May 22, gage height, 13.92 ft; minimum daily discharge, 30 ft³/s, Jun 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	220	169	108	e65	68	79	89	121	37	59	66
2	124	180	188	110	e67	66	94	113	101	35	82	71
3	132	164	243	107	e64	65	81	78	80	45	87	76
4	155	160	234	124	e66	66	73	79	45	54	87	83
5	121	157	205	75	e65	66	66	88	34	52	63	91
6	105	149	220	69	e62	68	71	92	34	73	53	98
7	99	156	295	75	e63	72	71	70	42	70	45	190
8	81	146	256	82	e66	77	78	82	57	98	45	258
9	94	141	210	74	e65	74	73	50	64	124	50	172
10	167	136	165	74	e64	72	67	56	89	119	63	190
11	107	129	171	72	e66	74	69	103	63	125	58	135
12	90	127	133	73	e62	74	67	55	38	131	65	120
13	160	130	105	70	e66	88	65	46	31	127	78	117
14	134	127	116	69	e63	78	65	41	45	113	62	109
15	115	126	127	66	e65	81	86	41	86	104	48	94
16	104	128	109	66	e61	85	285	49	55	99	49	77
17	95	128	94	65	e60	90	153	85	48	106	53	59
18	87	130	95	62	59	90	135	72	98	97	50	145
19	92	135	105	57	60	88	128	77	88	107	53	148
20	101	133	104	55	69	87	108	106	64	109	93	124
21	106	130	105	55	79	88	104	198	34	76	66	123
22	104	236	90	65	75	82	95	390	30	69	53	119
23	103	249	88	60	75	79	86	223	33	65	52	88
24	112	192	76	55	80	232	89	127	47	67	47	77
25	115	210	75	54	90	169	91	86	44	92	48	79
26	119	198	77	54	79	146	80	70	42	160	48	82
27	119	166	87	56	72	123	256	66	43	157	52	85
28	119	154	92	69	71	132	221	60	50	107	69	91
29	119	160	94	e67	---	80	98	103	44	76	75	96
30	111	175	95	e64	---	71	90	102	40	76	69	133
31	318	---	104	e63	---	76	---	67	---	72	70	---
TOTAL	3726	4772	4327	2215	1899	2807	3124	2964	1690	2842	1892	3396
MEAN	120.2	159.1	139.6	71.45	67.82	90.55	104.1	95.61	56.33	91.68	61.03	113.2
MAX	318	249	295	124	90	232	285	390	121	160	93	258
MIN	81	126	75	54	59	65	65	41	30	35	45	59
AC-FT	7390	9470	8580	4390	3770	5570	6200	5880	3350	5640	3750	6740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2002, BY WATER YEAR (WY)

	MEAN	252.3	272.3	316.2	338.8	418.7	685.8	1066	1367	796.5	128.1	88.26	163.6
MAX	968	748	1884	1691	2399	3502	3639	6201	4233	661	414	968	
(WY)	1985	1983	1984	1984	1986	1986	1986	1952	1983	1975	1983	1983	
MIN	27.4	20.7	41.8	35.4	40.8	44.5	59.7	15.0	10.3	6.26	3.00	27.4	
(WY)	1989	1962	1989	1989	1989	1977	1988	1961	1961	1961	1961	1956	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1949 - 2002

ANNUAL TOTAL	33675	35654	490.7	
ANNUAL MEAN	92.26	97.68		
HIGHEST ANNUAL MEAN			1427	1986
LOWEST ANNUAL MEAN			65.3	1988
HIGHEST DAILY MEAN	318	390	9970	May 6 1952
LOWEST DAILY MEAN	28	30	1.0	Sep 1 1961
ANNUAL SEVEN-DAY MINIMUM	37	39	1.0	Sep 1 1961
ANNUAL RUNOFF (AC-FT)	66790	70720	355500	
10 PERCENT EXCEEDS	157	160	1320	
50 PERCENT EXCEEDS	76	83	188	
90 PERCENT EXCEEDS	52	52	51	

e Estimated

10143500 CENTERVILLE CREEK ABOVE DIVERSIONS NEAR CENTERVILLE, UT

LOCATION.--Lat 40°54'59", long 111°51'44", in SW¹/₄SW¹/₄SE¹/₄ sec. 8, T. 2N S., R. 1 E., Davis County, Hydrologic Unit 16020102, 1.2 mi east of Centerville.

DRAINAGE AREA.--3.15 mi².

PERIOD OF RECORD.--October 1949 to September 1980, May 1, 1999 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. V-notch sharp crested weir since November 1960. Elevation of gage 4,680 ft above NGVD of 1929, from topographic map. Prior to November 21, 1960, at site 250 ft downstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39 ft³/s, May 19, 2002, gage height, 2.44 ft; minimum daily recorded, 0.5 ft³/s, Mar 16, 1975 and several days in 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39 ft³/s, May 19, gage height, 2.44 ft; minimum daily discharge, 0.64 ft³/s, Jul 31, Aug 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.91	1.3	1.3	e1.3	1.1	e1.1	e2.8	9.6	6.7	1.9	0.64	0.82
2	0.91	1.2	1.4	e1.2	1.1	e1.1	e2.8	9.4	6.7	1.8	0.71	0.85
3	0.92	1.2	1.5	e1.2	1.1	e1.1	3.2	9.2	6.2	1.8	0.86	0.84
4	0.92	e1.2	1.3	e1.3	0.92	e1.1	3.5	9.2	5.8	1.7	0.80	0.84
5	0.93	e1.2	1.3	e1.2	e0.93	e1.1	4.2	9.5	5.5	1.7	0.77	1.0
6	0.94	e1.2	1.4	e1.2	e0.94	e1.1	4.6	9.7	5.2	1.6	0.77	1.1
7	0.94	e1.4	1.3	e1.3	e0.94	e1.1	4.5	9.8	5.0	1.5	0.75	1.0
8	0.96	e1.2	1.3	1.3	e0.94	e1.0	4.3	9.5	4.8	1.4	0.77	1.5
9	1.3	e1.2	1.3	1.3	e0.94	e1.1	4.4	9.1	4.8	1.4	e0.79	1.3
10	1.3	e1.1	1.3	1.2	e0.94	e1.1	5.3	8.4	4.4	1.5	e0.80	1.2
11	1.3	e1.1	1.3	1.2	e0.94	e1.0	5.3	7.3	4.2	1.4	e0.95	1.2
12	1.4	e1.1	1.3	1.2	e0.94	e1.1	5.6	7.3	3.9	1.3	e1.0	1.2
13	1.4	e1.1	1.3	1.2	e0.94	e1.4	6.0	6.7	3.7	1.3	0.92	1.2
14	1.3	1.1	1.3	1.1	e0.94	e1.1	6.4	6.2	3.5	1.3	0.90	1.1
15	1.3	1.1	e1.6	1.1	e0.94	e1.1	7.1	6.7	3.3	1.3	0.88	1.1
16	1.3	1.1	e1.4	1.1	e0.94	e1.1	6.3	6.9	3.2	1.3	0.85	1.2
17	1.3	1.1	e1.3	1.1	e0.94	e1.1	5.3	7.0	3.1	1.3	0.86	1.2
18	1.3	1.2	e1.2	1.1	e0.94	e1.1	4.6	7.4	3.0	1.2	e0.87	1.6
19	1.3	1.1	e1.2	1.1	e0.94	e1.1	4.2	11	2.9	1.0	e0.87	1.2
20	1.3	1.1	e1.1	1.1	e1.0	e1.2	3.8	8.3	2.8	1.0	e0.88	1.1
21	1.3	1.1	e1.1	1.2	e1.0	e1.3	3.5	9.4	2.7	0.98	e0.87	1.0
22	1.3	1.7	e1.0	1.2	e1.0	e1.3	3.7	8.8	2.7	0.92	e0.86	1.0
23	1.3	1.4	e1.1	1.2	e1.0	e1.5	4.2	8.1	2.6	0.85	e0.87	1.00
24	1.4	1.3	e1.0	1.2	e1.0	e1.6	4.6	7.5	2.4	0.81	0.88	0.98
25	1.4	1.3	e1.0	1.2	e1.1	e1.8	5.0	7.0	2.3	0.77	0.87	0.99
26	e1.3	1.4	e1.1	1.2	e1.1	e1.7	6.1	6.6	2.2	0.73	0.85	1.0
27	e1.3	1.3	e1.1	1.2	e1.3	e2.1	8.2	6.2	2.1	0.70	0.89	1.0
28	e1.2	1.3	e1.1	1.1	e1.3	e2.3	8.5	6.1	2.0	0.70	0.86	1.0
29	e1.2	1.3	e1.1	1.1	---	e2.5	8.9	6.3	1.9	0.68	0.83	1.0
30	1.1	1.3	e1.2	1.1	---	e2.5	9.2	6.5	1.9	0.66	0.83	1.1
31	2.4	---	e1.1	1.1	---	e2.6	---	6.6	---	0.64	0.82	---
TOTAL	38.43	36.7	38.3	36.6	28.11	43.4	156.1	247.3	111.5	37.14	26.07	32.62
MEAN	1.240	1.223	1.235	1.181	1.004	1.400	5.203	7.977	3.717	1.198	0.841	1.087
MAX	2.4	1.7	1.6	1.3	1.3	2.6	9.2	11	6.7	1.9	1.0	1.6
MIN	0.91	1.1	1.0	1.1	0.92	1.0	2.8	6.1	1.9	0.64	0.64	0.82
AC-FT	76	73	76	73	56	86	310	491	221	74	52	65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950-80, 1999-2002, BY WATER YEAR (WY)

	MEAN	1.377	1.428	1.394	1.387	1.437	1.944	4.916	10.48	6.289	2.338	1.421	1.274
MAX	2.22	2.06	2.00	2.23	2.25	5.49	10.2	21.1	17.4	6.31	3.00	2.10	
(WY)	1976	1972	1972	1972	1971	1972	1974	1952	1975	1975	1975	1975	
MIN	0.82	0.90	0.89	0.88	1.00	0.88	1.92	2.07	0.97	0.56	0.55	0.65	
(WY)	1962	1962	1955	1962	2002	1955	1961	1961	1961	1961	1961	1961	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1950-80, 1999-2002

ANNUAL TOTAL	896.13	832.27	
ANNUAL MEAN	2.455	2.280	
HIGHEST ANNUAL MEAN			2.955
LOWEST ANNUAL MEAN			4.99
HIGHEST DAILY MEAN	14	11	35
LOWEST DAILY MEAN	0.80	0.64	0.50
ANNUAL SEVEN-DAY MINIMUM	0.83	0.68	0.50
ANNUAL RUNOFF (AC-FT)	1780	1650	2140
10 PERCENT EXCEEDS	6.5	6.3	7.1
50 PERCENT EXCEEDS	1.3	1.2	1.6
90 PERCENT EXCEEDS	0.90	0.88	1.0

e Estimated

10145400 SALT CREEK BELOW NEPHI POWERPLANT DIVERSION, NEAR NEPHI, UT

LOCATION.--Lat 39°43'02", long 111°43'58", in SE¹/₄SW¹/₄NW¹/₄ sec. 5, T. 13 S., R. 2 E., Juab County, Hydrologic Unit 16020201, on right bank 5.6 mi east of Nephi, 0.2 mi below confluence with Hopp Creek, 200 ft downstream from Nephi powerplant diversion dam, and 115 ft below mouth of Bradley's Canyon.

DRAINAGE AREA.--60.0 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 5,750 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. Flow at gage is extensively regulated by Nephi City at powerplant diversion dam 200 ft above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 263 ft³/s, May 1, 1998, gage height, 6.34 ft; minimum daily discharge, 2.0 ft³/s, Dec 25-29, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35 ft³/s, Jun 1, gage height, 5.18 ft; minimum daily discharge, 3.4 ft³/s, Mar 26, 27, 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	6.2	5.5	6.0	5.0	5.8	6.9	7.5	23	4.6	5.5	3.5
2	4.7	6.1	6.2	5.8	5.0	5.3	6.2	13	21	4.9	5.5	3.6
3	4.6	5.9	6.5	5.9	4.9	5.3	6.2	8.0	10	5.0	5.4	3.6
4	4.6	5.9	6.6	5.9	5.1	5.4	6.2	6.2	7.8	5.0	5.4	3.6
5	4.7	5.7	6.4	5.2	5.1	5.6	6.2	6.3	7.5	4.6	5.3	3.5
6	5.0	5.7	6.5	5.9	5.3	5.7	6.7	7.6	7.9	5.0	5.1	3.8
7	4.8	6.0	6.6	5.9	5.5	6.6	7.9	11	8.3	8.7	4.7	4.6
8	4.9	5.8	5.6	6.0	5.5	5.8	7.5	9.4	8.5	12	4.4	5.3
9	5.7	5.6	5.9	6.2	5.3	5.2	6.5	7.5	7.5	11	4.3	4.7
10	5.7	5.6	6.4	6.0	5.1	5.4	6.1	7.0	6.1	8.8	4.4	4.5
11	5.9	5.6	6.6	5.8	5.3	5.5	5.9	6.5	5.7	7.0	4.4	4.9
12	6.0	5.4	6.3	5.8	5.4	5.4	5.9	6.5	5.7	7.0	4.5	5.1
13	5.8	5.2	5.8	5.7	5.3	5.5	5.9	6.5	5.4	7.2	4.9	6.5
14	5.7	5.6	6.6	5.0	4.6	5.6	5.9	6.5	5.4	7.2	5.0	5.8
15	5.7	5.7	6.4	5.0	4.8	5.2	5.9	8.0	5.4	7.1	4.9	5.5
16	5.7	5.7	4.2	4.6	5.4	5.4	5.9	10	5.4	7.4	4.9	6.5
17	5.6	5.7	5.4	4.4	5.2	5.6	5.9	10	5.3	7.4	4.9	7.0
18	5.7	5.7	6.0	4.9	5.3	5.4	5.8	12	5.2	7.5	4.7	6.7
19	5.6	5.8	6.1	4.5	5.2	5.3	5.9	14	5.2	7.4	4.5	6.3
20	5.5	5.7	6.1	5.2	6.1	5.7	5.9	14	5.2	7.2	4.4	5.9
21	5.4	5.7	6.0	5.5	5.8	6.0	5.9	15	5.2	6.9	4.2	5.7
22	5.5	6.9	6.1	5.8	5.9	6.2	6.1	11	5.0	6.4	4.3	5.6
23	5.5	6.9	4.6	4.9	5.8	6.5	6.2	7.3	5.0	6.3	4.4	5.5
24	5.6	6.1	4.2	4.8	5.9	6.7	6.2	6.4	5.0	6.4	4.3	5.5
25	5.5	6.7	4.4	5.4	5.7	4.9	6.2	6.3	5.0	6.4	4.2	5.4
26	5.3	6.2	4.3	5.8	5.3	3.4	6.2	6.3	4.8	6.3	4.2	e5.3
27	5.4	6.0	4.5	5.7	5.5	3.4	6.4	6.5	4.7	6.0	3.9	e4.6
28	5.3	4.8	4.9	5.7	5.7	3.4	6.5	6.5	4.7	5.7	3.9	5.1
29	5.3	5.5	5.4	5.6	---	5.5	6.5	6.5	4.7	5.9	3.7	5.8
30	5.6	5.3	6.0	4.6	---	7.6	6.5	8.7	4.6	6.0	3.7	5.4
31	7.5	---	5.9	4.6	---	7.7	---	13	---	5.9	3.6	---
TOTAL	168.0	174.7	178.0	168.1	150.0	172.0	188.0	271.0	210.2	210.2	141.5	154.8
MEAN	5.419	5.823	5.742	5.423	5.357	5.548	6.267	8.742	7.007	6.781	4.565	5.160
MAX	7.5	6.9	6.6	6.2	6.1	7.7	7.9	15	23	12	5.5	7.0
MIN	4.2	4.8	4.2	4.4	4.6	3.4	5.8	6.2	4.6	4.6	3.6	3.5
AC-FT	333	347	353	333	298	341	373	538	417	417	281	307

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

	MEAN	4.762	4.617	4.039	3.741	3.896	10.12	24.95	51.25	37.61	15.94	7.719	7.618
MAX	6.73	6.94	6.03	5.42	5.36	28.8	60.6	102	88.6	47.5	10.2	10.4	
(WY)	1995	1995	1995	2002	2002	1997	1997	1998	1995	1995	1998	1999	
MIN	2.80	3.23	2.30	2.94	3.36	3.46	6.27	8.74	7.01	5.94	4.56	4.66	
(WY)	1994	1994	1994	1994	2001	1994	2002	2002	2002	2000	2002	2001	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1994 - 2002

ANNUAL TOTAL	2573.1	2186.5		
ANNUAL MEAN	7.050	5.990	14.73	
HIGHEST ANNUAL MEAN			27.9	1998
LOWEST ANNUAL MEAN			5.99	2002
HIGHEST DAILY MEAN	35	May 19	208	May 1 1998
LOWEST DAILY MEAN	3.2	Jan 19	2.0	Dec 26 1993
ANNUAL SEVEN-DAY MINIMUM	3.2	Jan 19	2.1	Dec 22 1993
ANNUAL RUNOFF (AC-FT)	5100	4340	10670	
10 PERCENT EXCEEDS	13	7.4	41	
50 PERCENT EXCEEDS	5.6	5.7	5.9	
90 PERCENT EXCEEDS	3.4	4.6	3.3	

e Estimated

JORDAN RIVER BASIN

10146000 SALT CREEK AT NEPHI, UT

LOCATION.--Lat 39°42'47", long 111°48'13", in SE¹/₄SW¹/₄NE¹/₄, sec. 3, T. 13 S., R. 1 E., Juab County, Hydrologic Unit 16020201, on right bank 1.7 mi east of Nephi.

DRAINAGE AREA.--95.6 mi².

PERIOD OF RECORD.--December 1950 to September 1980, August 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,280.00 ft above NGVD of 1929. December 2, 1950 to November 7, 1952, at a site 0.5 mi downstream at datum 31.96 ft lower. November 7, 1952 to November 10, 1971, at a site 0.5 mi downstream at datum 30.53 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Nephi City powerplant diversion dam about 5.0 mi above gage since December 1984.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 832 ft³/s, Aug 1, 1968, gage height, 6.43 ft from floodmarks; minimum, 1.1 ft³/s, Dec 13, 1951 and Dec 11, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25 ft³/s, Jun 1, gage height, 1.85 ft; minimum daily discharge, 1.4 ft³/s, Dec 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	6.8	6.0	7.0	4.5	6.3	8.4	e12	e23	e5.2	6.0	3.6
2	4.9	6.3	6.1	6.8	4.8	5.7	7.8	e14	e21	e5.2	6.0	3.5
3	4.9	6.3	6.6	7.0	5.0	5.6	7.5	e12	e14	e5.3	5.7	3.5
4	4.9	6.1	6.6	7.0	5.4	5.9	7.3	e8.5	e11	e5.2	5.6	3.5
5	5.1	6.0	6.6	6.6	5.6	6.2	7.3	e7.5	e8.5	e5.0	5.5	3.5
6	5.4	6.0	6.6	6.9	5.9	6.3	7.3	e7.7	e8.7	e7.0	5.5	3.5
7	5.5	6.1	7.0	7.1	6.4	7.1	7.9	e12	e9.2	e10	5.5	4.0
8	5.5	6.1	6.4	7.4	6.7	7.1	8.5	e10	e9.3	e13	5.2	4.6
9	5.9	6.0	6.1	7.6	6.5	6.3	8.1	e8.5	e8.0	e12	4.9	4.7
10	6.5	6.0	6.3	7.4	6.2	6.4	7.6	e7.7	e7.0	e11	4.9	4.5
11	6.7	6.0	6.6	7.3	6.5	6.6	7.3	e7.5	e6.0	e9.0	5.1	4.5
12	7.0	6.0	6.6	7.3	6.6	6.6	7.3	e7.5	e6.0	e7.5	5.0	4.7
13	6.7	6.0	6.2	7.4	6.4	6.6	7.2	e7.5	e5.8	e7.5	4.9	4.9
14	6.6	6.0	6.5	6.8	6.4	6.6	7.3	e7.7	e5.8	e7.4	4.9	5.2
15	6.6	6.0	6.5	6.5	5.6	6.3	7.3	e8.2	e5.8	e7.6	4.9	5.2
16	6.6	6.0	3.7	5.3	6.0	6.4	7.6	e9.3	e5.7	7.3	4.9	5.4
17	6.6	6.2	4.2	4.8	6.1	7.0	7.5	e11	e5.6	7.3	4.9	5.7
18	6.5	6.2	6.1	5.2	6.2	6.6	7.6	e13	e5.6	7.4	4.9	5.7
19	6.3	6.0	6.3	4.3	6.3	6.3	7.6	15	e5.6	7.6	4.8	5.7
20	6.3	6.0	6.5	5.4	6.7	6.7	7.5	16	e5.6	7.3	4.5	5.5
21	6.3	6.1	6.6	6.7	6.6	7.1	7.3	16	e5.5	7.1	4.3	5.4
22	6.3	6.5	6.5	7.1	6.3	7.2	e7.4	14	e5.4	7.2	4.3	5.2
23	6.3	7.0	4.4	6.0	6.4	7.6	e7.5	e13	e5.4	7.0	4.3	5.2
24	6.0	6.7	2.4	5.1	6.5	7.8	e7.5	e11	e5.4	6.6	4.2	5.2
25	6.0	6.7	1.5	6.3	6.3	7.4	e7.5	e9.0	e5.4	6.6	4.2	5.2
26	6.0	6.6	1.4	6.8	5.9	5.5	e7.7	e7.5	e5.3	6.6	4.1	5.2
27	6.0	6.4	1.9	7.0	5.9	4.6	e7.8	e7.4	e5.2	6.6	4.1	5.2
28	6.2	5.2	2.7	6.6	6.1	4.2	e7.9	e7.6	e5.2	6.5	4.0	5.2
29	6.1	5.6	3.5	6.5	---	4.6	e7.8	e7.7	e5.2	6.3	3.8	5.4
30	6.1	5.9	6.4	4.5	---	7.1	e8.3	e7.7	e5.0	6.3	3.7	5.5
31	7.6	---	7.0	4.2	---	8.0	---	e14	---	6.1	3.7	---
TOTAL	188.7	184.8	167.8	197.9	169.8	199.7	228.6	317.5	230.2	227.7	148.3	144.1
MEAN	6.087	6.160	5.413	6.384	6.064	6.442	7.620	10.24	7.673	7.345	4.784	4.803
MAX	7.6	7.0	7.0	7.6	6.7	8.0	8.5	16	23	13	6.0	5.7
MIN	4.9	5.2	1.4	4.2	4.5	4.2	7.2	7.4	5.0	5.0	3.7	3.5
AC-FT	374	367	333	393	337	396	453	630	457	452	294	286

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-80, 1993-2002, BY WATER YEAR (WY)

	10.58	10.10	9.468	9.382	10.28	14.21	42.07	79.40	58.15	26.63	14.93	12.13
MEAN	10.58	10.10	9.468	9.382	10.28	14.21	42.07	79.40	58.15	26.63	14.93	12.13
MAX	26.0	19.7	16.4	17.0	18.6	30.9	172	276	132	70.8	50.9	32.9
(WY)	1953	1953	1953	1970	1971	1997	1952	1952	1952	1952	1952	1952
MIN	4.57	5.19	3.66	4.45	4.73	5.37	6.98	10.2	8.04	6.89	4.78	4.80
(WY)	1978	1978	1994	1994	1995	2001	1961	2002	2002	1994	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1951-80, 1993-2002

ANNUAL TOTAL	3073.5	2405.1		
ANNUAL MEAN	8.421	6.589		
HIGHEST ANNUAL MEAN			24.97	
LOWEST ANNUAL MEAN			6.61	1952
HIGHEST DAILY MEAN	35	May 19	6.63	2002
LOWEST DAILY MEAN	1.4	Dec 26	580	May 2 1952
ANNUAL SEVEN-DAY MINIMUM	2.5	Dec 23	1.4	Dec 26 2001
ANNUAL RUNOFF (AC-FT)	6100		2.5	Dec 23 2001
10 PERCENT EXCEEDS	16		18090	
50 PERCENT EXCEEDS	6.3		63	
90 PERCENT EXCEEDS	5.2		13	
			6.6	

e Estimated

LOCATION. --Lat 39°48'09", long 111°51'44", in NE¹/₄SW¹/₄NW¹/₄, sec. 6, T. 12 S., R. 1 E., Juab County, Hydrologic Unit 16020201, on left bank 40 ft upstream from bridge crossing, 800 ft downstream from Burraston ponds, 0.5 mi upstream from Mona Reservoir, 1 mi southwest of Mona.

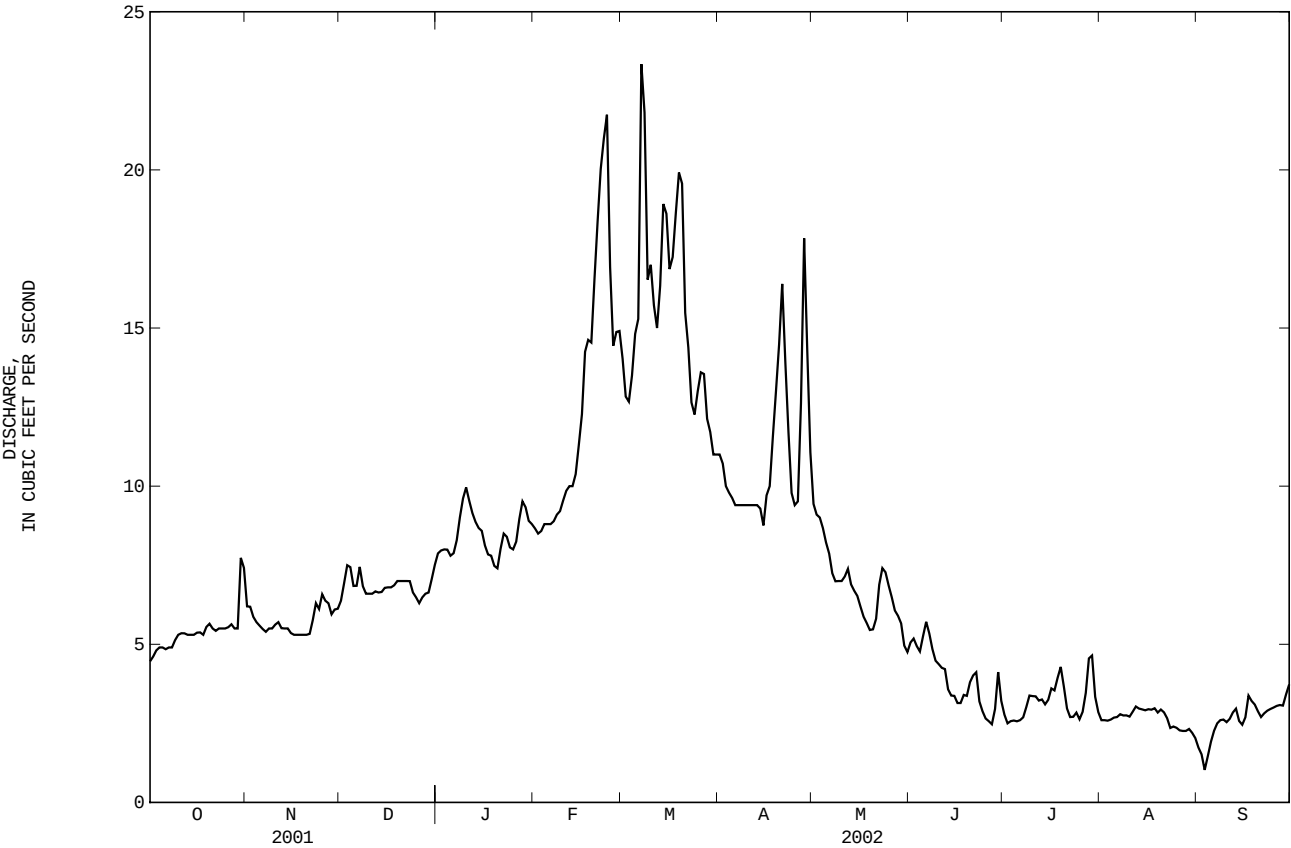
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28 ft³/s, Mar 7, gage height, 4.88 ft; minimum discharge, 0.87 ft³/s, Sep 2, 3.

MEAN	19.51	25.30	26.92	30.99	40.48	48.76	47.51	49.81	31.43	12.79	11.25	12.98
MAX	71.7	75.4	85.4	65.5	104	172	191	319	245	50.4	41.5	41.5
(WY)	1985	1984	1984	1986	1986	1985	1985	1984	1983	1983	1984	1984
MIN	5.39	5.22	6.64	8.47	12.7	14.3	9.25	6.16	3.93	3.19	2.65	2.66
(WY)	2002	1993	1993	2002	2002	1992	1992	1992	2002	2002	2002	2002

JORDAN RIVER BASIN

10146400 CURRANT CREEK NEAR MONA, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1979 - 2002	
ANNUAL TOTAL	4127.0		2571.6		29.73	
ANNUAL MEAN	11.31		7.045		101	
HIGHEST ANNUAL MEAN					7.05	
LOWEST ANNUAL MEAN					566	
HIGHEST DAILY MEAN	38	Mar 11	23	Mar 7	1.0	May 14 1984
LOWEST DAILY MEAN	3.2	Sep 4	1.0	Sep 3	1.0	Sep 3 2002
ANNUAL SEVEN-DAY MINIMUM	3.8	Sep 2	1.7	Aug 30	1.7	Aug 30 2002
ANNUAL RUNOFF (AC-FT)	8190		5100		21540	
10 PERCENT EXCEEDS	25		14		64	
50 PERCENT EXCEEDS	6.8		6.1		16	
90 PERCENT EXCEEDS	4.8		2.7		6.4	



10149000 SIXTH WATER CREEK ABOVE SYAR TUNNEL, NEAR SPRINGVILLE, UT

LOCATION.--Lat 40°07'05", long 111°18'50", in NE¹/₄NE¹/₄SE¹/₄ sec. 13, T. 8 S., R. 5 E., Utah County, Hydrologic Unit 16020202, on left bank 400 ft upstream from Syar Tunnel.

DRAINAGE AREA.--15 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,320 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow includes water diverted from Strawberry Reservoir (capacity, 1,106,500 acre-ft) since June 30, 1973, in Colorado River Basin via Strawberry Tunnel for irrigation in vicinity of Spanish Fork.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120 ft³/s, Sep 13, 2001, gage height, 5.27 ft; minimum, 3.0 ft³/s, Mar 16, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 77 ft³/s, Jun 28, gage height, 4.86 ft; minimum daily discharge, 21 ft³/s, many days Nov-Mar.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	25	24	22	e23	21	26	36	36	40	42	32
2	35	25	24	23	e24	e22	27	37	37	39	44	32
3	34	26	24	22	e24	e22	27	37	36	41	45	29
4	35	24	26	22	e24	e22	27	39	36	41	45	27
5	34	24	28	22	e24	e22	27	36	38	37	43	27
6	34	24	27	21	e24	21	27	37	41	36	38	26
7	34	24	26	22	e23	22	26	40	40	36	37	26
8	34	23	e27	22	e22	21	26	38	42	e36	37	25
9	35	23	e26	22	22	e22	26	38	41	e32	36	25
10	33	22	26	21	22	21	26	37	40	32	36	25
11	29	21	25	22	21	21	27	34	38	33	38	30
12	30	21	27	22	21	21	27	33	35	33	40	29
13	28	21	e27	21	23	22	27	34	34	33	39	30
14	30	21	25	e22	21	21	28	34	32	e33	39	30
15	32	23	24	e23	23	e22	28	35	28	e33	34	29
16	32	21	e24	e23	22	22	27	34	26	e32	34	30
17	32	21	e23	e23	22	21	27	33	29	e33	35	29
18	32	22	e24	e23	22	e22	27	33	39	e32	34	30
19	33	23	24	e24	21	e22	27	33	38	e33	31	30
20	33	22	24	e24	22	23	28	33	40	33	32	30
21	33	22	23	e23	22	23	28	33	39	34	33	30
22	33	23	21	23	22	24	28	33	41	31	31	30
23	34	22	e22	e23	22	24	28	33	41	32	32	29
24	29	22	e22	e23	21	23	27	33	41	33	33	29
25	24	22	e22	e23	21	24	29	34	39	31	33	29
26	25	21	e23	e24	e23	24	29	33	45	36	33	29
27	25	24	e23	23	e24	25	29	33	50	44	36	29
28	25	e27	e23	22	e24	25	29	34	58	41	34	30
29	25	24	e23	21	---	25	29	34	45	41	35	30
30	25	24	e22	e22	---	25	32	35	44	40	35	25
31	25	---	22	e23	---	26	---	36	---	42	29	---
TOTAL	957	687	751	696	629	701	826	1082	1169	1103	1123	861
MEAN	30.87	22.90	24.23	22.45	22.46	22.61	27.53	34.90	38.97	35.58	36.23	28.70
MAX	35	27	28	24	24	26	32	40	58	44	45	32
MIN	24	21	21	21	21	21	26	33	26	31	29	25
AC-FT	1900	1360	1490	1380	1250	1390	1640	2150	2320	2190	2230	1710

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

	1999	2000	2001	2002
MEAN	15.06	15.95	15.18	13.92
MAX	30.9	30.1	27.2	23.9
(WY)	2002	1999	1999	1999
MIN	5.50	5.16	4.38	4.32
(WY)	2001	2001	2001	2001

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1999 - 2002

ANNUAL TOTAL	8695.9	10585		
ANNUAL MEAN	23.82	29.00		
HIGHEST ANNUAL MEAN			22.42	
LOWEST ANNUAL MEAN			29.0	2002
HIGHEST DAILY MEAN	48	Jun 24	58	Jun 28
LOWEST DAILY MEAN	3.9	Jan 1	21	Nov 11
ANNUAL SEVEN-DAY MINIMUM	4.0	Jan 1	21	Nov 11
ANNUAL RUNOFF (AC-FT)	17250		21000	
10 PERCENT EXCEEDS	41		38	
50 PERCENT EXCEEDS	25		27	
90 PERCENT EXCEEDS	4.2		22	

e Estimated

10149400 DIAMOND FORK ABOVE RED HOLLOW, NEAR THISTLE, UT

LOCATION.--Lat 40°04'35", long 111°22'57", in SW¹/₄SE¹/₄NW¹/₄ sec. 33, T. 8 S., R. 5 E., Utah County, Hydrologic Unit 16020202, on right bank 0.5 mi upstream from Red Hollow, 8.0 mi upstream from mouth, and 9 mi northeast of Thistle.

DRAINAGE AREA.--97 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 5,390 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow includes water diverted from Strawberry Reservoir (capacity, 1,106,500 acre-ft) since June 30, 1973, in Colorado River Basin via Strawberry Tunnel for irrigation in vicinity of Spanish Fork.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 464 ft³/s, Jun 19, 2002, gage height, 5.68 ft; minimum daily discharge, 31 ft³/s, Oct 25, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 464 ft³/s, Jun 19, gage height, 5.68 ft; minimum daily discharge, 31 ft³/s, Oct 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e100	96	e96	102	173	100	104	77	292	358	305	198
2	e55	94	e98	102	174	101	103	77	282	356	307	204
3	e53	96	e100	104	175	100	104	76	280	359	300	203
4	e45	95	e100	133	e174	100	105	78	238	344	309	204
5	43	95	99	155	e179	100	84	78	204	347	309	199
6	43	97	101	157	176	100	71	78	203	325	292	178
7	43	96	102	158	175	102	70	79	216	307	275	157
8	42	97	98	159	177	101	69	88	248	306	298	146
9	43	97	100	160	174	100	69	105	250	296	317	132
10	43	e98	100	160	173	100	70	107	289	316	319	131
11	37	e96	100	160	174	96	68	136	302	317	311	122
12	37	97	99	159	134	93	69	148	325	292	312	120
13	36	97	99	157	102	95	68	145	322	272	310	107
14	35	96	101	154	103	93	69	158	356	273	319	104
15	40	96	100	158	101	90	70	169	398	268	300	114
16	47	97	94	153	100	91	72	177	424	277	289	109
17	47	98	100	154	101	91	69	193	428	305	274	109
18	39	e98	102	157	102	90	70	203	441	319	273	108
19	40	98	102	154	100	90	69	189	441	322	274	99
20	40	97	101	158	104	e92	70	206	411	306	257	98
21	40	96	101	160	101	e97	68	250	406	301	257	98
22	41	105	101	158	101	97	67	253	435	292	230	104
23	40	e99	96	150	101	98	67	242	395	295	221	113
24	40	e97	95	153	101	98	66	228	365	266	220	100
25	31	e98	96	156	99	97	68	219	355	268	212	105
26	81	e99	96	158	98	96	69	205	390	279	230	106
27	94	e95	103	157	100	97	72	205	410	265	206	92
28	94	e100	105	167	100	97	71	205	384	248	203	97
29	94	e96	105	173	---	99	71	212	369	267	203	84
30	93	e100	106	168	---	100	73	242	378	273	212	49
31	99	---	104	172	---	101	---	251	---	290	210	---
MEAN	53.39	97.20	100.0	152.5	131.1	96.84	74.50	163.8	341.2	300.3	269.5	126.3
MAX	100	105	106	173	179	102	105	253	441	359	319	204
MIN	31	94	94	102	98	90	66	76	203	248	203	49

WTR YR 2002 MEAN 159.1 MAX 441 MIN 31

e Estimated

10150500 SPANISH FORK AT CASTILLA, UT

LOCATION.--Lat 40°02'59", long 111°32'50", in SE¹/₄NE¹/₄NW¹/₄ sec. 12, T. 9 S., R. 3 E., Utah County, Hydrologic Unit 16020202, on right bank 600 ft upstream from outlet of Cold Springs, 0.9 mi upstream from diversion dam of Bureau of Reclamation, 1.5 mi northwest of Castilla, and 2.8 mi downstream from Diamond Fork.

DRAINAGE AREA.--652 mi².

PERIOD OF RECORD.--September 1889 to December 1890, April 1903 to November 1917, May 1919 to September 1925, January 1933 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Spanish Fork" 1889-90, 1903-08.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,870 ft above NGVD of 1929, from topographic map. Prior to May 3, 1919, nonrecording gages at various sites 1.5 mi to 2.5 mi downstream from present site at different datums below power canal, which began diverting late in 1908. May 3, 1919 to April 14, 1920, nonrecording gage; April 15, 1920 to September 30, 1925 and January 1, 1933 to April 16, 1940, water-stage recorder, at present site upstream from power canal at datum 2.00 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Several small diversions for irrigation above station. Flow since June 1915 includes water diverted from Strawberry Reservoir (capacity, 1,106,500 acre-ft) since June 30, 1973, in Colorado River Basin via Strawberry Tunnel for irrigation in vicinity of Spanish Fork. Flow affected by mudslide and draining of resultant lake about 5 mi upstream April 14 to September 30, 1983.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft³/s, May 15, 1984, gage height, 11.53 ft; minimum, 5.8 ft³/s, Dec 15, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 527 ft³/s, Jan 22, gage height, 5.06 ft; minimum discharge, 60 ft³/s, Oct 7, 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	138	e152	e145	e201	141	160	127	340	438	362	239
2	87	133	e150	e145	e203	130	156	131	341	440	369	240
3	73	132	e152	e147	e204	132	159	128	339	441	359	241
4	70	131	e150	e166	e203	137	157	134	299	423	367	243
5	65	135	e150	e172	e209	142	144	139	258	425	365	240
6	64	133	e151	e173	e203	142	127	144	247	399	350	231
7	63	135	e151	e174	e203	154	126	153	255	372	329	221
8	62	135	e147	e175	e204	152	126	176	282	365	348	217
9	67	135	e147	e175	e201	138	122	194	285	353	399	211
10	68	135	e147	e174	e200	146	121	195	319	379	394	206
11	72	136	e147	e173	e197	143	120	224	337	384	383	205
12	74	134	e145	e171	178	139	118	233	364	350	379	210
13	71	135	e142	e170	128	142	118	226	363	320	377	205
14	71	138	e140	e175	142	142	116	236	397	317	387	195
15	75	e136	e142	e170	136	139	119	257	434	318	363	195
16	83	e135	e137	e171	139	139	128	269	459	326	341	193
17	83	e135	e141	e172	141	142	120	283	468	356	323	201
18	74	e137	e143	e170	141	136	116	292	489	373	318	200
19	74	e140	e142	e170	141	136	115	274	491	387	319	196
20	75	e145	e141	e173	150	140	116	285	503	367	301	192
21	75	e150	e141	e176	148	144	111	339	507	366	297	190
22	75	181	e140	e174	143	151	107	352	513	352	272	193
23	75	169	e136	e168	143	152	106	332	476	350	258	197
24	76	156	e135	e172	143	156	104	311	438	329	254	190
25	69	162	e136	e175	141	153	107	290	429	325	248	190
26	112	157	e138	e175	135	150	109	269	458	340	263	190
27	129	147	e143	e181	139	151	120	262	481	323	247	183
28	127	139	e147	e189	143	155	123	258	479	300	241	186
29	127	150	e148	e196	---	165	120	261	463	310	240	178
30	127	e150	e148	e195	---	164	118	291	455	320	246	109
31	137	---	e145	e197	---	164	---	302	---	340	248	---
TOTAL	2631	4274	4474	5359	4659	4517	3709	7367	11969	11188	9947	6087
MEAN	84.87	142.5	144.3	172.9	166.4	145.7	123.6	237.6	399.0	360.9	320.9	202.9
MAX	137	181	152	197	209	165	160	352	513	441	399	243
MIN	62	131	135	145	128	130	104	127	247	300	240	109
AC-FT	5220	8480	8870	10630	9240	8960	7360	14610	23740	22190	19730	12070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920-25, 1934-2002, BY WATER YEAR (WY)

	MEAN	109.0	87.96	81.17	82.69	95.05	134.3	266.4	544.1	465.2	402.6	333.4	205.0
MAX	654	480	209	173	264	334	1054	2077	1593	565	525	385	
(WY)	1984	1984	1984	2002	1986	1986	1952	1984	1983	1998	1985	1992	
MIN	33.5	42.7	40.5	45.4	41.9	53.0	56.7	180	126	101	92.4	59.7	
(WY)	1935	1962	1961	1961	1964	1964	1961	1934	1934	1934	1934	1934	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1920-25, 1934-2002

ANNUAL TOTAL	73582	76181		
ANNUAL MEAN	201.6	208.7		
HIGHEST ANNUAL MEAN			235.4	
LOWEST ANNUAL MEAN			569	1984
HIGHEST DAILY MEAN	552	Jun 9	86.2	1934
LOWEST DAILY MEAN	53	Jan 17	3700	May 15 1984
ANNUAL SEVEN-DAY MINIMUM	62	Jan 2	20	Dec 9 1951
ANNUAL RUNOFF (AC-FT)	145900	151100	27	Oct 25 1934
10 PERCENT EXCEEDS	445	367		
50 PERCENT EXCEEDS	142	170		
90 PERCENT EXCEEDS	68	117		

e Estimated

10154200 PROVO RIVER NEAR WOODLAND, UT

LOCATION.--Lat 40°33'28", long 111°10'05", in NE¹/₄NW¹/₄SE¹/₄ sec. 17, T. 3 S., R. 7 E., Summit County, Hydrologic Unit 16020203, on right bank on south side of State Highway 35, 0.3 mi downstream from Twin Pine Bridge, 1.6 mi downstream from South Fork and 3.5 mi southeast of Woodland.

DRAINAGE AREA.--162 mi².

PERIOD OF RECORD.--July 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,950 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Records include flow of Duchesne Tunnel, transmountain diversion. Flow also affected by some small irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on these diversions is available from the Provo River Water Commissioner's Report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,040 ft³/s, Jun 7, 1986, from rating curve extended above 2,000 ft³/s on the basis of slope-area measurement of peak flow, gage height, 7.40 ft, datum then in use; minimum, 16 ft³/s, Nov 6, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,480 ft³/s, May 20, gage height, 4.99 ft; minimum discharge, 26 ft³/s, Oct 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	60	49	e48	45	44	93	358	815	48	54	29
2	28	48	52	e46	45	38	109	333	724	48	56	29
3	30	46	55	e46	44	40	120	355	615	51	54	30
4	32	46	53	48	44	41	135	347	513	52	54	30
5	33	43	51	46	44	44	157	415	453	52	55	30
6	32	46	e50	e48	45	45	171	468	419	52	51	31
7	33	58	e51	49	46	45	171	599	395	47	53	38
8	33	55	48	50	47	43	177	556	356	45	51	39
9	39	47	e50	50	46	43	169	501	324	43	51	37
10	38	46	e52	47	44	48	177	451	288	45	54	34
11	39	47	56	48	46	46	169	395	253	45	55	35
12	38	45	50	50	45	46	171	364	219	43	54	44
13	38	47	51	45	42	48	185	447	198	45	50	45
14	36	46	55	37	45	48	225	641	177	49	50	37
15	36	45	51	e42	43	43	267	767	168	56	50	35
16	37	42	43	44	44	48	248	838	154	64	53	36
17	36	44	e44	43	45	47	208	832	138	69	54	51
18	36	44	e47	45	45	44	179	1020	89	69	51	78
19	35	41	50	43	45	45	172	1170	78	64	50	75
20	36	37	51	46	46	47	165	1270	74	64	54	65
21	35	44	52	48	42	50	152	1210	77	61	54	59
22	35	50	49	47	47	54	146	828	77	57	53	55
23	37	51	42	44	48	59	158	646	71	58	43	51
24	37	46	43	45	47	57	173	554	66	59	33	51
25	34	48	41	47	42	53	183	503	65	57	31	49
26	35	53	43	49	40	52	213	501	63	60	30	47
27	35	43	48	48	48	57	248	529	62	56	29	47
28	35	44	51	48	46	60	220	646	54	56	29	46
29	35	e46	50	43	---	65	218	758	52	56	30	47
30	38	e48	51	42	---	71	287	830	50	57	29	57
31	68	---	49	44	---	80	---	871	---	55	29	---
TOTAL	1117	1406	1528	1426	1256	1551	5466	20003	7087	1683	1444	1337
MEAN	36.03	46.87	49.29	46.00	44.86	50.03	182.2	645.3	236.2	54.29	46.58	44.57
MAX	68	60	56	50	48	80	287	1270	815	69	56	78
MIN	28	37	41	37	40	38	93	333	50	43	29	29
AC-FT	2220	2790	3030	2830	2490	3080	10840	39680	14060	3340	2860	2650

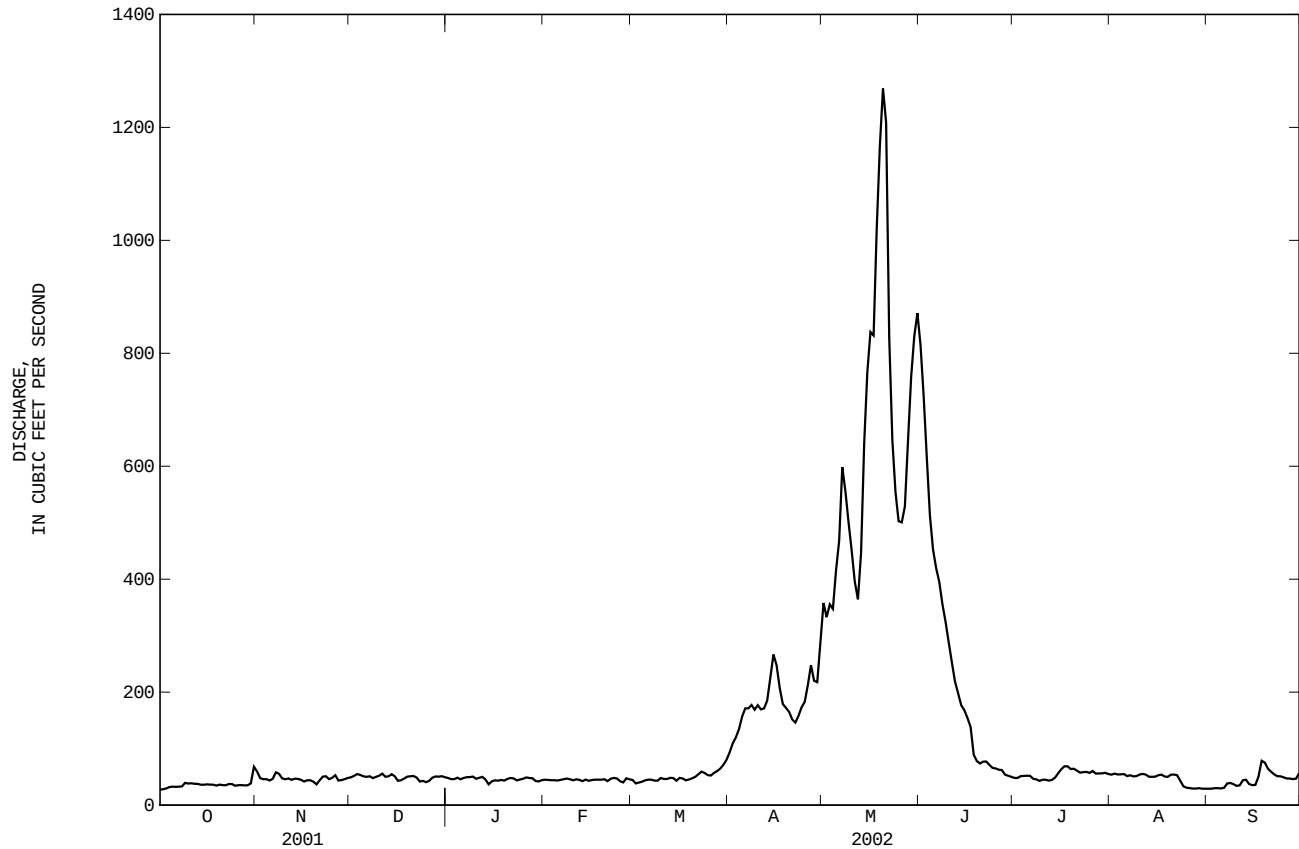
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

	MEAN	73.15	66.71	61.49	59.71	58.96	75.01	195.6	799.5	783.2	246.3	115.2	80.77
MAX	155	97.9	97.3	86.9	95.7	198	370	1348	1653	730	255	166	
(WY)	1983	1983	1984	1984	1986	1986	1985	1997	1995	1995	1965	1982	
MIN	36.0	42.3	38.4	36.6	40.1	41.5	69.4	128	113	46.6	26.6	29.0	
(WY)	2002	1993	1977	1977	1977	1977	1975	1977	1992	1992	1992	1992	

10154200 PROVO RIVER NEAR WOODLAND, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1964 - 2002	
ANNUAL TOTAL	54844		45304		218.5	
ANNUAL MEAN	150.3		124.1		351	
HIGHEST ANNUAL MEAN					71.3	
LOWEST ANNUAL MEAN					2530	
HIGHEST DAILY MEAN	1970	May 16	1270	May 20	2530	May 28 1979
LOWEST DAILY MEAN	28	Sep 7	28	Oct 1	24	Aug 26 1992
ANNUAL SEVEN-DAY MINIMUM	28	Sep 24	29	Aug 27	25	Aug 24 1992
ANNUAL RUNOFF (AC-FT)	108800		89860		158300	
10 PERCENT EXCEEDS	370		355		635	
50 PERCENT EXCEEDS	57		50		80	
90 PERCENT EXCEEDS	33		36		47	

e Estimated



10155000 PROVO RIVER NEAR HAILSTONE, UT

LOCATION.--Lat 40°36'03", long 111°19'51", in SW¹/₄NE¹/₄SW¹/₄ sec. 36, T. 2 S., R. 5 E., Wasatch County, Hydrologic Unit 16020203, on left bank 0.25 mi downstream of bridge on State Highway 32, 4.5 mi upstream from Ross Creek and Hailstone.

DRAINAGE AREA.--219 mi².

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WDR UT-89-1, UT-93-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,220 ft above NGVD of 1929, from topographic map. Prior to November 20, 1964 at datum 1.00 ft higher. Gage relocated 1.5 mi upstream on April 8, 1993, to a site above the high water line of Jordanelle Reservoir, at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Records include flow of Weber-Provo diversion canal and Duchesne Tunnel, a transbasin diversion. Flow also affected by irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on flow of Duchesne Tunnel, and capacities of small reservoirs is available from Provo River Water Commissioner's Report, (total capacity, 10,080 acre-ft).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,100 ft³/s, Jun 7, 1986, from rating curve extended above 2,500 ft³/s; gage height, 9.91 ft, from floodmarks at site and datum then in use; minimum, 11 ft³/s, Aug 20, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,640 ft³/s, May 21, gage height, 8.53 ft; minimum daily discharge, 16 ft³/s, Aug 17-20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	81	e61	e59	e56	e55	189	521	1800	22	27	28
2	26	69	e64	e57	e55	e48	209	464	1610	21	27	27
3	28	61	e68	e57	e55	e49	225	503	1220	21	29	27
4	29	58	e66	e60	e54	e51	232	497	892	25	27	28
5	30	58	e63	e57	e54	e54	245	550	742	27	28	29
6	31	58	e62	e59	e55	e56	272	579	596	27	26	36
7	32	68	e63	e61	e57	e56	265	820	518	26	23	50
8	33	86	e59	e61	e58	e54	275	812	476	23	21	53
9	46	71	e62	e62	e57	e54	265	757	401	20	20	49
10	47	62	e64	e58	e54	e59	296	696	292	19	20	41
11	45	62	e69	e60	e56	e57	294	594	251	18	20	44
12	47	60	e62	e62	e55	e57	290	502	207	17	19	59
13	45	59	e63	e65	e52	e60	308	563	180	17	19	59
14	46	70	e68	e63	e56	e59	353	841	162	17	19	49
15	47	61	e63	e61	e53	e53	441	1050	151	17	19	42
16	46	57	e53	e60	e55	e60	464	1230	139	25	18	45
17	39	55	e54	e62	e56	e62	392	1270	121	55	16	69
18	38	57	e58	e65	e56	e66	337	1630	86	48	16	97
19	38	e51	e62	e63	e56	e69	332	2000	67	41	16	97
20	39	e45	e63	e60	e57	e73	320	2190	56	39	16	79
21	42	e54	e64	e59	e53	e80	290	2260	49	35	20	72
22	45	e62	e60	e58	e58	e92	272	1520	46	33	17	66
23	45	e63	e52	e54	e59	e100	283	996	41	34	21	63
24	48	e57	e53	e56	e58	106	306	789	35	30	28	60
25	46	e60	e50	e58	e52	102	318	681	31	37	29	58
26	48	e65	e53	e61	e50	111	374	658	30	44	27	57
27	48	e54	e60	e59	e59	130	448	705	34	38	28	56
28	48	e55	e63	e59	e57	142	381	934	31	31	31	57
29	48	e57	e62	e53	---	149	355	1360	28	28	29	57
30	48	e59	e63	e52	---	160	427	1590	26	28	28	68
31	75	---	e61	e55	---	172	---	1790	---	28	27	---
TOTAL	1299	1835	1888	1836	1553	2496	9458	31352	10318	891	711	1622
MEAN	41.90	61.17	60.90	59.23	55.46	80.52	315.3	1011	343.9	28.74	22.94	54.07
MAX	75	86	69	65	59	172	464	2260	1800	55	31	97
MIN	26	45	50	52	50	48	189	464	26	17	16	27
AC-FT	2580	3640	3740	3640	3080	4950	18760	62190	20470	1770	1410	3220

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

	MEAN	86.61	97.34	91.87	86.74	91.99	116.9	308.5	1054	945.4	253.5	96.26	79.84
MAX	191	170	156	135	228	311	824	1935	2026	856	263	203	
(WY)	1983	1973	1956	1971	1962	1986	1962	1993	1957	1965	1965	1983	
MIN	41.9	59.0	55.4	54.7	55.5	65.4	113	131	102	25.3	20.9	27.2	
(WY)	2002	1977	1977	1977	2002	1977	1961	1977	1992	1961	1992	1960	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1950 - 2002

ANNUAL TOTAL	70923	65259	
ANNUAL MEAN	194.3	178.8	276.2
HIGHEST ANNUAL MEAN			445
LOWEST ANNUAL MEAN			80.2
HIGHEST DAILY MEAN	2940	May 16	3560
LOWEST DAILY MEAN	15	Jul 3	12
ANNUAL SEVEN-DAY MINIMUM	16	Jun 29	14
ANNUAL RUNOFF (AC-FT)	140700		200100
10 PERCENT EXCEEDS	426		806
50 PERCENT EXCEEDS	66		105
90 PERCENT EXCEEDS	25		56

e Estimated

10155200 PROVO RIVER AT RIVER ROAD BRIDGE NEAR HEBER CITY, UT

LOCATION.--Lat 40°33'16", long 111°25'57", in NW¹/₄SW¹/₄ sec. 18, T. 3 S., R. 5 E., Wasatch County, Hydrologic Unit 16020203, on right bank 2.8 miles downstream of Jordanelle Reservoir, 2.8 miles north of Heber City.

DRAINAGE AREA.--270 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 5,710 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. Flow also affected by irrigation diversions above station and by storage in, and releases from, Jordanelle Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,270 ft³/s, May 22, 2002, gage height, 2.51 ft; minimum daily discharge, 120 ft³/s, Apr 30, Jul 30, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,270 ft³/s, May 22, gage height, 2.51 ft; minimum daily discharge, 120 ft³/s, Apr 30, Jul 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	124	137	137	e137	137	138	121	126	129	137	148
2	130	124	138	136	e138	e137	137	123	134	128	141	144
3	134	123	140	137	e138	e137	134	127	136	128	143	135
4	136	123	139	137	137	135	129	127	138	128	142	138
5	143	124	138	137	139	135	130	125	154	127	141	143
6	141	124	139	137	137	e137	131	126	147	129	134	158
7	142	127	139	137	135	e139	131	122	131	131	136	173
8	144	125	137	137	136	139	131	506	129	132	139	179
9	147	127	137	138	135	136	129	659	129	130	140	187
10	147	128	137	137	e135	136	128	285	133	131	140	186
11	145	128	137	137	135	139	128	133	134	135	141	178
12	145	127	137	137	136	138	131	131	133	135	138	182
13	144	127	136	137	e137	142	145	129	133	135	133	187
14	145	127	138	137	139	139	132	127	132	132	132	185
15	140	127	137	136	137	139	128	127	129	133	128	183
16	136	126	136	136	135	138	129	128	128	133	132	189
17	130	131	136	137	135	138	128	128	137	134	136	182
18	127	135	137	136	135	137	127	127	140	138	137	181
19	126	135	137	e136	136	137	127	127	138	140	146	160
20	127	134	136	137	138	138	129	315	136	140	144	138
21	129	134	136	137	137	e137	128	675	137	141	139	136
22	130	140	136	137	138	e138	127	1090	136	141	138	137
23	131	138	135	136	139	e138	133	827	135	143	136	134
24	132	138	136	136	138	e137	145	260	135	138	136	129
25	131	138	136	137	138	e137	146	149	133	131	138	130
26	128	137	136	136	137	e138	145	143	130	134	142	133
27	127	137	136	137	136	e139	150	141	132	139	142	138
28	128	136	137	138	136	e139	158	138	128	134	146	141
29	128	137	137	138	---	139	132	134	130	128	147	149
30	130	137	137	e137	---	139	120	133	129	120	150	151
31	128	---	137	e137	---	139	---	130	---	135	149	---
MEAN	135.6	130.6	137.0	136.8	136.8	137.8	133.5	245.6	134.1	133.3	139.5	157.8
MAX	153	140	140	138	139	142	158	1090	154	143	150	189
MIN	126	123	135	136	135	135	120	121	126	120	128	129

WTR YR 2002 MEAN 146.7 MAX 1090 MIN 120

e Estimated

10155300 PROVO RIVER NEAR MIDWAY, UT

LOCATION.--Lat 40°30'25", long 111°26'56", in NE¹/₄NW¹/₄NW¹/₄ sec. 1, T. 4 S., R. 4 E., Wasatch County, Hydrologic Unit 16020203, on left bank 150 ft downstream of bridge on State Highway 113, 1.8 miles west of Heber City.

DRAINAGE AREA.--268 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 5,490 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow also affected by irrigation diversions above station and by storage in, and releases from, Jordanelle Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,040 ft³/s, May 28, 1999, gage height, 5.98 ft; minimum daily discharge, 19 ft³/s, May 2, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,240 ft³/s, May 22, 23, gage height, 4.74 ft; minimum daily discharge, 114 ft³/s, Apr 14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	130	141	135	e145	135	141	140	134	129	141	140
2	124	130	141	133	e142	139	140	143	139	130	147	138
3	128	130	144	133	e140	139	137	151	137	132	150	130
4	130	130	143	132	e140	134	130	138	144	130	148	130
5	140	130	140	132	e139	135	131	128	158	129	147	132
6	150	131	139	132	e137	137	132	131	157	129	132	151
7	151	137	141	132	e137	145	132	132	134	129	133	167
8	153	135	139	132	135	142	132	460	128	134	132	172
9	155	137	138	132	135	143	133	694	128	133	133	178
10	157	134	138	132	e135	141	130	338	135	132	136	185
11	155	131	137	132	e135	143	130	151	136	134	135	182
12	155	131	135	132	136	144	132	147	134	134	134	187
13	154	132	135	132	e136	151	144	142	132	136	128	190
14	155	133	136	136	132	146	114	138	131	134	126	186
15	152	132	135	134	139	142	117	136	128	135	124	185
16	142	132	143	138	135	141	126	136	122	138	124	194
17	138	139	135	e146	135	141	135	134	135	138	128	189
18	135	142	135	e148	135	139	135	126	143	142	130	183
19	137	141	135	e152	136	140	135	125	137	145	137	168
20	138	141	135	e150	139	141	136	282	132	146	137	143
21	139	141	135	132	138	146	135	656	133	147	131	139
22	141	156	135	132	138	152	135	1060	132	149	128	138
23	142	149	135	e142	138	156	144	903	129	150	125	136
24	142	146	139	e138	138	159	157	319	131	143	125	132
25	142	147	143	e134	136	156	160	165	132	135	122	132
26	140	144	145	134	140	153	162	149	131	135	129	134
27	136	142	134	134	135	154	170	148	135	139	131	142
28	134	141	135	136	135	147	176	144	132	138	134	146
29	136	142	135	137	---	144	150	139	132	131	134	152
30	141	141	135	e134	---	144	136	139	124	125	134	156
31	141	---	135	e146	---	143	---	136	---	138	139	---
TOTAL	4453	4127	4271	4224	3841	4472	4167	7930	4035	4219	4134	4737
MEAN	143.6	137.6	137.8	136.3	137.2	144.3	138.9	255.8	134.5	136.1	133.4	157.9
MAX	170	156	145	152	145	159	176	1060	158	150	150	194
MIN	124	130	134	132	132	134	114	125	122	125	122	130
AC-FT	8830	8190	8470	8380	7620	8870	8270	15730	8000	8370	8200	9400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	2001	2002
MEAN	139.2	127.4	130.6	152.4	171.2	152.7	141.0
MAX	193	151	166	345	473	325	213
(WY)	1999	1998	1997	1997	1997	1998	1996
MIN	36.9	39.1	38.0	39.6	47.7	64.4	51.0
(WY)	1996	1996	1996	1996	1996	1996	2001

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1996 - 2002

	2001	2002	1996-2002
ANNUAL TOTAL	53700	54610	
ANNUAL MEAN	147.1	149.6	213.3
HIGHEST ANNUAL MEAN			290
LOWEST ANNUAL MEAN			149
HIGHEST DAILY MEAN	886	1060	2000
LOWEST DAILY MEAN	115	114	19
ANNUAL SEVEN-DAY MINIMUM	121	127	29
ANNUAL RUNOFF (AC-FT)	106500	108300	154500
10 PERCENT EXCEEDS	151	155	440
50 PERCENT EXCEEDS	140	137	142
90 PERCENT EXCEEDS	128	130	112

e Estimated

10155400 SPRING CREEK NEAR HEBER CITY, UT

LOCATION.--Lat 40°30'31", long 111°26'19", in SE¹/₄SW¹/₄SE¹/₄ sec. 36, T. 3 S., R. 4 E., Wasatch County, Hydrologic Unit 16020203, on left bank 260 ft upstream from State Highway 113, 5,000 ft upstream from mouth, and 1.5 mi west of State Highway 40 in Heber City.

DRAINAGE AREA.--60.8 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 5,500 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Small diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 336 ft³/s, Feb 10, 1999, from rating extended by computation of flow from contracted opening, gage height 3.49 ft; minimum daily discharge, 2.8 ft³/s, Sep 21, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51 ft³/s, Jun 3, gage height, 1.92 ft; minimum daily discharge, 4.6 ft³/s, Oct 24, 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	8.7	15	e15	e13	e15	e13	30	37	25	28	20
2	18	7.6	16	e14	e13	e14	e14	32	40	24	36	19
3	19	7.3	20	e14	e13	e14	e13	32	46	30	33	20
4	18	7.0	21	e13	e13	e14	e13	32	41	30	30	20
5	16	7.1	19	e13	e14	e15	14	30	39	28	29	20
6	10	7.0	19	e14	e14	e14	13	26	30	28	25	24
7	12	8.6	20	e15	e14	e17	13	24	20	26	26	25
8	12	7.6	17	e15	e15	e14	13	25	25	24	27	23
9	14	7.0	15	e16	e15	e13	13	30	27	23	25	21
10	12	6.9	15	e15	e14	e16	13	30	26	23	25	19
11	10	7.0	15	e14	e14	e16	13	30	23	23	23	23
12	9.1	7.0	16	e14	e15	e16	12	30	22	22	27	26
13	7.6	7.8	15	e15	e14	e16	12	30	27	27	28	24
14	7.1	9.2	16	e13	e16	e14	12	30	28	27	28	22
15	7.1	11	16	e13	e14	e14	12	28	30	28	30	20
16	7.7	12	e14	e13	e15	e13	13	27	30	28	30	22
17	7.6	11	e16	e12	e16	e14	16	27	30	32	30	25
18	7.4	12	e18	e13	e17	e14	19	28	28	33	30	27
19	8.1	12	e16	e12	e17	e13	18	30	28	32	25	25
20	5.1	12	e16	e14	e16	e14	19	31	29	30	27	23
21	5.1	13	e17	e14	e15	e14	19	31	26	28	24	23
22	4.8	19	e17	e14	e15	e14	19	36	21	23	33	23
23	4.8	16	e15	e13	e16	e15	17	26	28	28	30	26
24	4.6	14	e14	e13	e17	e14	15	36	27	30	29	26
25	4.6	14	e14	e15	e17	e14	16	34	27	31	24	26
26	5.8	15	e13	e17	e15	e13	16	34	28	30	22	25
27	8.6	14	e15	e16	e16	e13	22	38	30	31	21	25
28	8.3	14	e15	e14	e15	e14	26	36	30	31	21	26
29	8.0	14	e16	e12	---	e14	27	37	30	31	20	26
30	9.0	15	e16	e13	---	e13	30	39	26	28	18	26
31	12	---	e16	e13	---	e14	---	36	---	28	17	---
TOTAL	302.4	323.8	503	431	418	442	485	965	879	862	821	700
MEAN	9.755	10.79	16.23	13.90	14.93	14.26	16.17	31.13	29.30	27.81	26.48	23.33
MAX	19	19	21	17	17	17	30	39	46	33	36	27
MIN	4.6	6.9	13	12	13	13	12	24	20	22	17	19
AC-FT	600	642	998	855	829	877	962	1910	1740	1710	1630	1390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

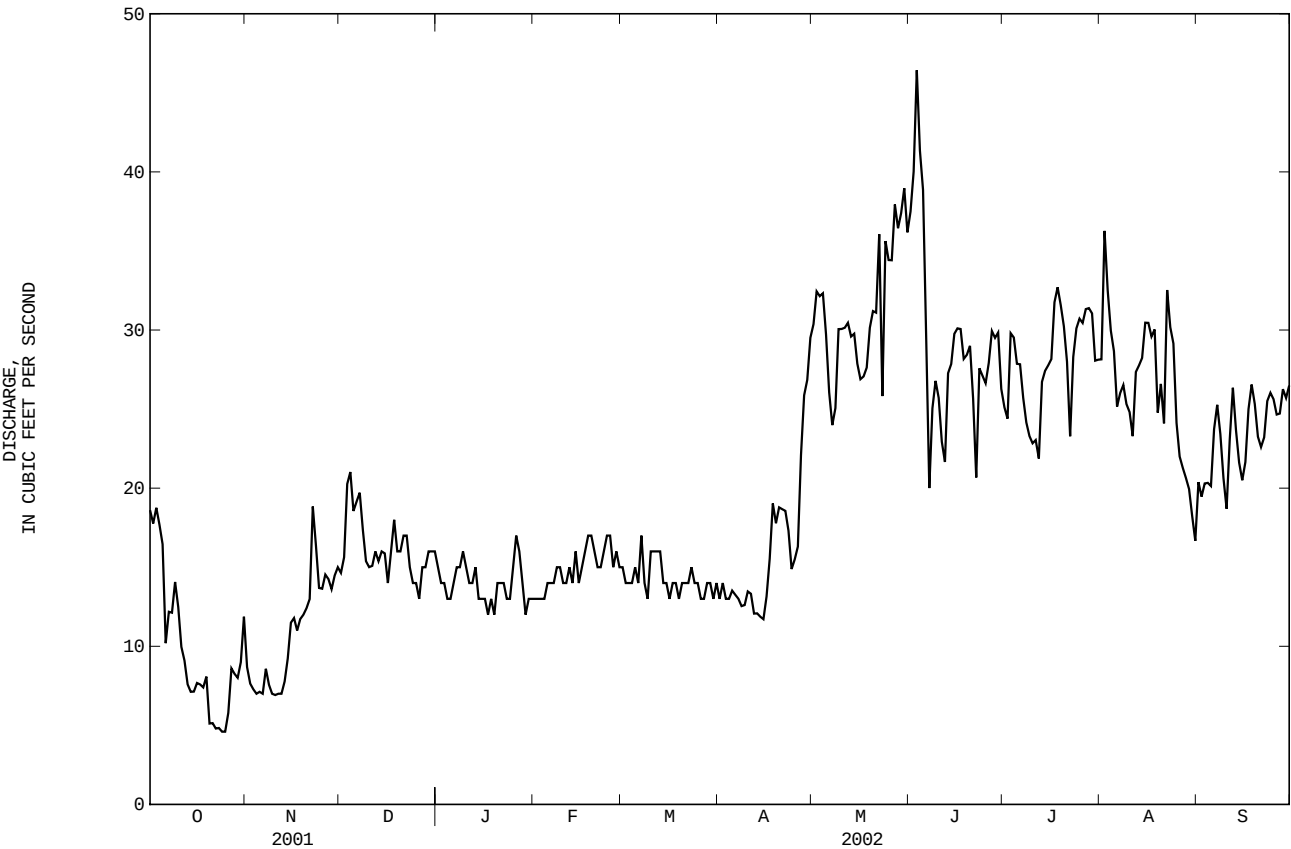
	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	18.92	18.59	15.94	15.51	19.14	21.99	18.35	41.14	48.57
MAX	33.6	23.4	19.2	17.8	26.4	33.0	23.1	60.5	90.5
(WY)	1999	1999	1996	1999	2000	1997	1995	1995	1998
MIN	9.26	10.8	12.0	13.1	13.7	14.3	14.3	31.1	29.3
(WY)	2001	2002	2000	2001	2001	2002	1999	2001	2002

JORDAN RIVER BASIN

10155400 SPRING CREEK NEAR HEBER CITY, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1994 - 2002	
ANNUAL TOTAL	7855.2		7132.2		24.56	
ANNUAL MEAN	21.52		19.54		30.0	
HIGHEST ANNUAL MEAN					18.6	
LOWEST ANNUAL MEAN					131	
HIGHEST DAILY MEAN	50	Jun 29	46	Jun 3	131	May 23 1995
LOWEST DAILY MEAN	4.6	Oct 24	4.6	Oct 24	2.8	Sep 21 2000
ANNUAL SEVEN-DAY MINIMUM	5.0	Oct 20	5.0	Oct 20	4.3	Sep 16 2000
ANNUAL RUNOFF (AC-FT)	15580		14150		17790	
10 PERCENT EXCEEDS	38		30		43	
50 PERCENT EXCEEDS	16		17		20	
90 PERCENT EXCEEDS	11		11		12	

e Estimated



10155500 PROVO RIVER NEAR CHARLESTON, UT

LOCATION.--Lat 40°29'03", long 111°27'46", in NE¹/₄NE¹/₄SW¹/₄ sec. 11, T. 4 S., R. 4 E., Wasatch County, Hydrologic Unit 16020203, on left bank 1,000 ft upstream from Snake Creek and 1.5 mi northeast of Charleston.

DRAINAGE AREA.--350 mi².

PERIOD OF RECORD.--October 1938 to September 1950, October 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,460 ft above NGVD of 1929, from topographic map. Prior to October 1991 at different sites and datums.

REMARKS.--Records good except for estimated daily discharges, which are fair. Records include flow of Weber-Provo diversion canal and Duchesne Tunnel, a transbasin diversion. Flow affected, by Jordanelle Reservoir, capacity 329,000 acre-ft, irrigation diversions above station and by several small reservoirs at headwaters. Information on flow of Duchesne Tunnel, and capacities of small reservoirs is available from Provo River Water Commissioner's Report, (total capacity, 10,080 acre-ft).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft³/s, May 22, 1993, gage height, 6.29 ft; minimum, 13 ft³/s, Oct 24, 1940 and Oct 7, 1948 at site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,260 ft³/s, May 22, gage height, 5.15 ft; minimum daily discharge, 141 ft³/s, Apr 14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	212	175	e170	e171	176	160	156	195	185	163	182	198
2	172	168	e170	e170	173	158	155	200	193	163	197	193
3	171	165	e175	e170	170	158	153	205	200	171	191	189
4	171	175	e174	e169	170	158	150	200	198	172	182	190
5	177	164	e170	e169	169	161	150	190	205	168	179	192
6	183	166	e169	e169	167	163	152	189	195	168	169	215
7	183	176	e171	e169	167	174	152	193	169	165	172	234
8	182	173	e169	e169	165	173	152	490	168	168	172	237
9	194	170	e168	e169	164	166	151	695	169	165	172	237
10	204	170	e168	e169	164	167	151	370	177	161	172	240
11	204	167	e167	e169	163	173	150	202	173	162	170	243
12	203	166	e168	e169	163	179	151	200	168	161	175	254
13	202	164	e168	e170	163	188	160	198	172	167	169	253
14	202	164	e170	e171	162	177	141	197	171	164	168	246
15	194	164	e168	e176	162	168	143	196	171	164	169	240
16	185	165	e177	185	161	165	151	193	167	165	169	252
17	183	169	e169	188	161	164	163	191	178	175	177	252
18	177	171	e168	187	162	161	169	187	182	184	182	246
19	177	171	e167	191	162	159	168	191	175	187	185	229
20	177	169	e167	192	166	164	171	311	173	186	188	200
21	176	166	e168	192	165	176	171	659	171	184	186	195
22	176	186	e168	174	165	184	170	1070	166	182	190	195
23	176	e178	e168	178	166	179	174	856	169	192	188	195
24	176	e175	e172	174	166	178	181	307	171	187	184	191
25	176	e175	e175	170	164	171	187	201	170	179	179	191
26	176	e172	e178	170	163	166	190	193	169	177	185	191
27	174	e170	e170	170	162	167	202	197	174	183	189	195
28	171	e170	e171	172	161	161	213	195	172	182	193	198
29	171	e170	e171	167	---	159	197	192	171	175	190	203
30	175	e170	e171	168	---	158	191	191	162	167	188	207
31	192	---	e171	177	---	156	---	187	---	180	193	---
TOTAL	5692	5104	5276	5404	4622	5191	4965	9241	5284	5367	5605	6501
MEAN	183.6	170.1	170.2	174.3	165.1	167.5	165.5	298.1	176.1	173.1	180.8	216.7
MAX	212	186	178	192	176	188	213	1070	205	192	197	254
MIN	171	164	167	167	161	156	141	187	162	161	168	189
AC-FT	11290	10120	10460	10720	9170	10300	9850	18330	10480	10650	11120	12890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-50, 1992-2002, BY WATER YEAR (WY)

	MEAN	101.5	126.0	126.0	133.5	143.6	166.5	248.5	605.7	560.1	179.9	97.39	101.4
MAX	291	216	219	400	513	386	710	1243	1255	519	280	294	
(WY)	1999	1999	1997	1997	1997	1997	1946	1993	1993	1995	1998	1998	
MIN	21.4	60.5	66.0	71.8	81.9	86.7	57.6	207	41.0	23.5	18.5	16.8	
(WY)	1941	1940	1995	1994	1994	1994	1995	2001	1992	1992	1992	1992	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1939-50, 1992-2002

ANNUAL TOTAL	69525	68252		
ANNUAL MEAN	190.5	187.0		
HIGHEST ANNUAL MEAN			215.9	
LOWEST ANNUAL MEAN			355	1997
HIGHEST DAILY MEAN	888	1070	2210	May 23 1993
LOWEST DAILY MEAN	158	141	14	Sep 11 1992
ANNUAL SEVEN-DAY MINIMUM	164	150	15	Sep 6 1992
ANNUAL RUNOFF (AC-FT)	137900	135400	156400	
10 PERCENT EXCEEDS	203	200	497	
50 PERCENT EXCEEDS	179	172	132	
90 PERCENT EXCEEDS	168	162	38	

e Estimated

JORDAN RIVER BASIN

10156000 SNAKE CREEK NEAR CHARLESTON, UT

LOCATION.--Lat 40°29'07", long 111°27'59", in NE¹/₄NW¹/₄SW¹/₄ sec. 11, T. 4 S., R. 4 E., Wasatch County, Hydrologic Unit 16020203, on right bank 700 ft upstream from mouth and 1.5 mi northeast of Charleston.

DRAINAGE AREA.--31.8 mi².

PERIOD OF RECORD.--September 1938 to October 1950, May 1993 to current year. Monthly discharge only, September 1938 to September 1945, published in WSP 1413.

GAGE.--Water-stage recorder. Elevation of gage is 5,435 ft above NGVD of 1929, from topographic map. Prior to 1993 at different datum.

REMARKS.-- Records fair. Some diversions above station for irrigation. Gage is affected by backwater.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 146 ft³/s, Jun 14, 1995, gage height, 2.46 ft, maximum gage height, 3.63 ft, Mar 23, 1996; minimum, 16 ft³/s, Aug 25, 28, 29, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 64 ft³/s, May 6, gage height, 3.06 ft; minimum daily discharge, 17 ft³/s, Aug 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	46	42	e41	40	38	37	30	30	36	23	e19
2	48	46	42	e40	38	38	36	30	29	35	22	e22
3	49	47	44	e40	37	37	36	30	34	31	22	e22
4	48	47	44	e39	37	37	35	29	41	34	22	e20
5	50	49	43	e39	35	38	33	32	37	30	21	e24
6	46	49	45	e40	36	39	33	42	37	29	21	e26
7	44	48	46	e41	37	40	35	41	37	31	21	26
8	44	46	45	e41	36	39	35	35	33	32	21	29
9	48	47	44	e42	36	38	33	35	36	30	21	e26
10	49	47	44	e41	38	38	32	31	33	30	22	e27
11	47	48	44	e40	39	38	31	27	33	29	22	e28
12	47	48	44	e40	39	39	31	27	33	26	22	e29
13	46	47	43	e41	39	40	31	25	31	28	20	e26
14	47	46	43	e40	39	39	32	26	31	30	21	25
15	45	45	42	e40	39	38	38	26	29	32	19	24
16	44	43	41	e39	38	38	39	27	32	29	19	27
17	42	42	41	e38	38	38	36	29	35	27	20	27
18	42	40	43	e38	37	38	35	30	36	27	20	28
19	44	41	43	e35	36	37	34	30	36	28	20	28
20	46	41	43	e39	34	38	34	35	35	28	19	27
21	43	41	41	e40	31	40	33	38	31	27	21	26
22	44	49	41	e40	34	41	33	41	32	27	18	26
23	43	48	e40	e40	36	39	31	39	29	25	18	27
24	42	47	e40	e39	36	39	27	38	30	26	19	29
25	41	47	e40	37	38	39	27	32	32	26	17	29
26	41	45	e39	35	37	39	27	31	31	25	23	29
27	41	43	e41	32	38	39	29	27	30	25	24	29
28	40	43	e41	36	38	39	30	27	29	27	e22	29
29	40	43	e41	40	---	39	29	28	31	26	e19	29
30	39	43	e42	40	---	39	28	28	31	23	e19	31
31	44	---	e42	40	---	38	---	28	---	24	e18	---
TOTAL	1377	1362	1314	1213	1036	1196	980	974	984	883	636	794
MEAN	44.42	45.40	42.39	39.13	37.00	38.58	32.67	31.42	32.80	28.48	20.52	26.47
MAX	50	49	46	42	40	41	39	42	41	36	24	31
MIN	39	40	39	32	31	37	27	25	29	23	17	19
AC-FT	2730	2700	2610	2410	2050	2370	1940	1930	1950	1750	1260	1570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-50, 1994-2002, BY WATER YEAR (WY)

	MEAN	47.35	48.34	44.33	42.54	42.07	45.06	45.14	52.95	57.19	43.81	39.94	41.48
MAX	65.0	62.9	55.7	51.7	55.0	52.1	57.8	87.5	86.8	59.4	57.5	62.3	62.3
(WY)	1999	1946	1999	1999	1945	1945	1945	1943	1995	1995	1998	1998	1998
MIN	35.5	33.8	36.2	35.4	33.6	36.2	32.7	31.4	32.8	26.3	20.5	26.5	26.5
(WY)	1940	1940	1940	1941	1941	1940	2002	2002	2002	1994	2002	2002	2002

10156000 SNAKE CREEK NEAR CHARLESTON, UT--Continued

SUMMARY STATISTICS

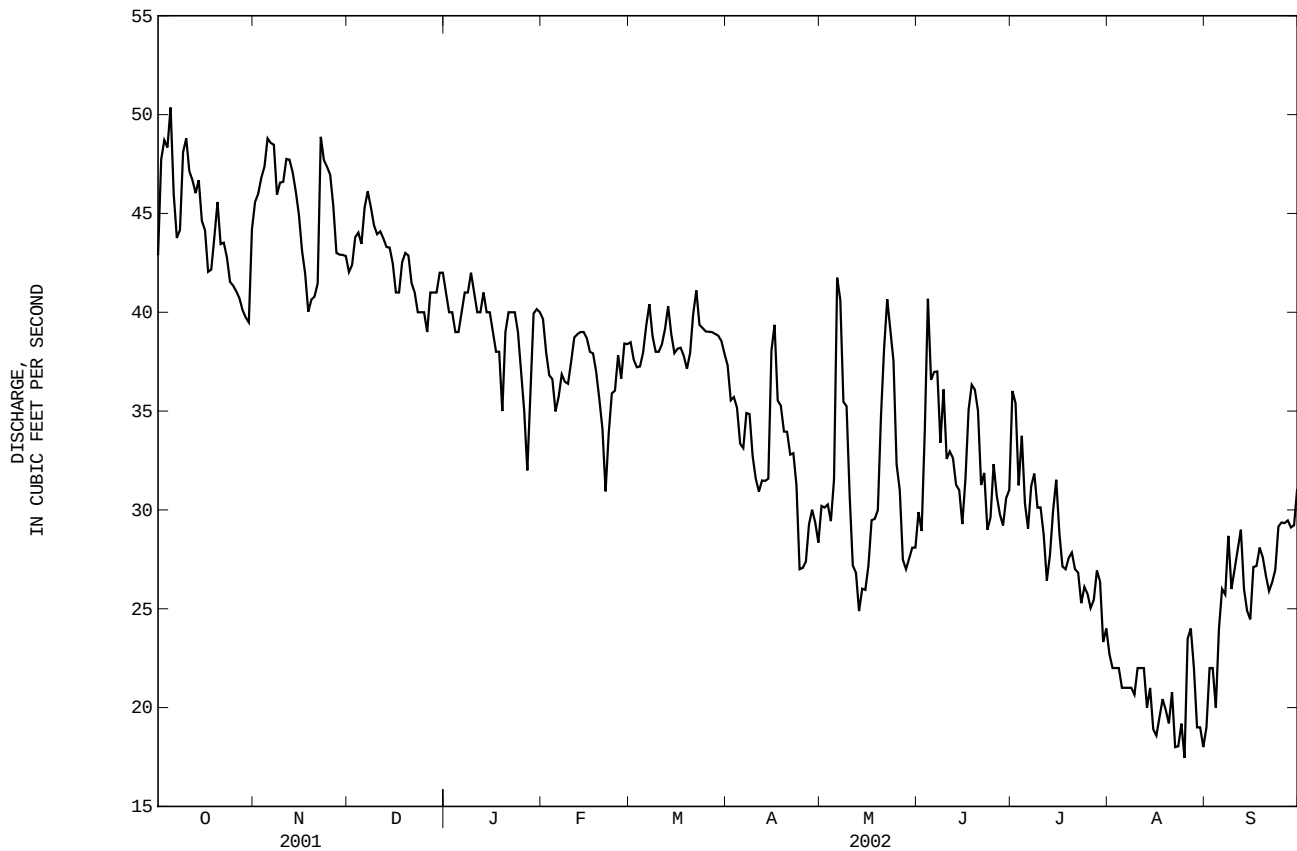
FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1939-50, 1994-2002

ANNUAL TOTAL	15124		12749			
ANNUAL MEAN	41.44		34.93		45.77	
HIGHEST ANNUAL MEAN					55.2	1999
LOWEST ANNUAL MEAN					34.9	2002
HIGHEST DAILY MEAN	57	Sep 25	50	Oct 5	113	Jun 30 1995
LOWEST DAILY MEAN	29	Apr 19	17	Aug 25	17	Aug 25 2002
ANNUAL SEVEN-DAY MINIMUM	32	Apr 24	19	Aug 19	19	Aug 19 2002
ANNUAL RUNOFF (AC-FT)	30000		25290		33160	
10 PERCENT EXCEEDS	48		44		58	
50 PERCENT EXCEEDS	41		36		44	
90 PERCENT EXCEEDS	37		24		34	

e Estimated



10157500 DANIELS CREEK AT CHARLESTON, UT

LOCATION.--Lat 40°27'39", long 111°28'19", in SE¹/₄NE¹/₄NE¹/₄ sec. 22, T. 4 S., R. 4 E., Wasatch County, Hydrologic Unit 16020203, on left bank 3 ft above capacity elevation of Deer Creek Reservoir, 200 ft downstream from culvert on State Highway 113 in old town of Charleston and 3.5 mi south of Midway.

DRAINAGE AREA.--50.1 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 5,420 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except estimated daily discharges, which are poor. Small transbasin diversions from Strawberry River Basin drain into Daniels Creek. Flow also affected by irrigation diversions above station and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 274 ft³/s, May 23, 1995, gage height, 3.92 ft; no flow several days in Jul and Aug 1994, Sep 1995 and Jun 16, 22, 23, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.0 ft³/s, May 23, 24, gage height, 2.00 ft; no flow Jun 16, 22, 23.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.38	0.63	e0.86	e2.0	e2.0	e3.2	3.1	1.5	0.44	0.79	2.5	2.4
2	0.33	0.64	0.88	e1.8	e2.0	e2.8	2.8	0.91	0.41	2.7	1.5	2.2
3	0.31	0.73	0.93	e1.8	e2.1	e2.7	2.1	1.1	0.33	2.6	3.1	1.6
4	0.31	0.76	0.88	e1.7	e2.1	e2.7	1.3	1.2	0.82	3.3	3.1	2.0
5	0.30	0.68	0.84	e1.7	e2.1	e3.1	1.1	0.56	0.21	2.0	2.5	1.9
6	0.17	0.69	0.75	e1.8	e2.2	e3.0	1.6	0.68	0.25	0.69	2.0	0.86
7	0.14	0.86	0.99	e2.2	e2.2	e3.8	1.1	0.61	0.39	1.0	0.98	1.5
8	0.62	0.80	e1.1	e2.2	e2.4	e2.7	0.60	1.0	0.95	1.9	1.5	2.0
9	1.4	0.78	e1.1	e2.5	e2.5	e2.2	0.56	1.5	0.91	1.6	2.1	1.9
10	1.1	0.76	e1.2	e2.2	e2.3	e2.8	0.49	1.5	0.80	3.5	1.3	1.1
11	1.1	0.75	e1.1	e2.2	e2.4	e2.8	0.33	1.3	0.48	4.9	2.0	0.30
12	1.2	0.78	e1.1	e2.1	e2.5	e2.8	0.38	1.3	0.44	4.6	2.0	1.3
13	1.4	0.86	e1.2	e2.5	e2.5	e2.9	0.42	0.70	0.16	3.5	2.1	1.9
14	1.4	0.88	e1.3	e2.3	e2.3	e2.2	0.41	0.58	0.05	4.8	1.9	1.8
15	0.45	0.92	e1.4	e2.4	e2.6	e1.9	0.49	1.3	0.01	2.8	2.7	1.8
16	0.08	0.92	e1.0	e2.2	e2.5	e1.9	0.59	2.5	0.00	1.8	2.9	1.7
17	0.09	0.95	e1.3	e1.9	e3.4	e2.0	0.86	2.1	0.10	2.2	1.1	1.8
18	0.13	0.98	e1.6	e2.0	e3.5	e1.9	1.5	1.5	0.07	4.2	0.96	1.3
19	0.13	0.96	e1.5	e1.7	e3.3	e1.9	1.3	0.86	0.12	4.0	2.6	1.2
20	0.27	1.00	e1.5	e2.2	e3.1	e2.2	1.1	0.46	0.11	3.9	2.9	1.5
21	0.46	1.1	e1.6	e2.3	e3.0	e2.2	0.62	0.45	0.07	3.2	3.5	1.4
22	0.61	1.1	e1.6	e2.1	e3.2	2.3	0.28	1.3	0.00	3.4	3.1	1.4
23	0.68	1.0	e1.3	e1.9	e3.4	2.4	0.21	5.6	0.00	2.7	2.9	1.3
24	0.48	0.99	e1.3	e1.8	e3.7	2.4	0.61	4.9	0.12	1.6	4.1	1.3
25	0.47	1.1	e1.3	e2.4	e3.5	2.4	1.1	4.0	0.16	1.3	1.8	1.3
26	0.42	0.98	e1.2	e2.9	e3.0	2.3	1.1	3.9	0.11	1.5	1.2	1.6
27	0.46	1.0	e1.8	e3.0	e3.4	3.5	1.3	3.9	0.08	1.5	2.7	1.6
28	0.54	e0.88	e1.8	e2.6	e3.2	3.8	1.5	2.2	0.17	1.8	2.6	1.5
29	0.56	0.90	e2.0	e2.2	---	3.8	1.8	2.2	0.33	2.8	3.0	1.5
30	0.59	0.87	e2.1	e1.6	---	3.6	1.7	1.7	0.09	2.7	4.2	1.8
31	0.71	---	e2.1	e1.9	---	3.5	---	1.5	---	2.7	4.2	---
TOTAL	17.29	26.25	40.63	66.1	76.4	83.7	32.35	54.81	8.18	81.98	75.04	46.76
MEAN	0.558	0.875	1.311	2.132	2.729	2.700	1.078	1.768	0.273	2.645	2.421	1.559
MAX	1.4	1.1	2.1	3.0	3.7	3.8	3.1	5.6	0.95	4.9	4.2	2.4
MIN	0.08	0.63	0.75	1.6	2.0	1.9	0.21	0.45	0.00	0.69	0.96	0.30
AC-FT	34	52	81	131	152	166	64	109	16	163	149	93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

	MEAN	5.942	3.895	3.031	2.754	2.899	2.680	11.96	47.50	29.66	6.572	7.712	6.694
MAX	9.38	10.3	8.65	5.00	5.07	5.61	32.1	99.9	110	16.0	21.1	13.6	
(WY)	2001	2000	2000	1994	1994	1997	1997	1997	1995	1995	1999	1999	
MIN	0.56	0.88	1.09	0.96	0.77	0.76	0.82	0.97	0.27	0.22	0.21	0.79	
(WY)	2002	2002	1999	2001	2001	1999	2001	2001	2002	2001	2001	2001	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1994 - 2002

ANNUAL TOTAL	275.06	609.49		
ANNUAL MEAN	0.754	1.670	10.98	
HIGHEST ANNUAL MEAN			21.2	1995
LOWEST ANNUAL MEAN			1.67	2002
HIGHEST DAILY MEAN	4.9	May 2	244	Jun 6 1995
LOWEST DAILY MEAN	0.05	Jun 24	0.00	Jul 23 1994
ANNUAL SEVEN-DAY MINIMUM	0.13	Jun 24	0.07	Jun 14
ANNUAL RUNOFF (AC-FT)	546		1210	7950
10 PERCENT EXCEEDS	1.3		3.1	26
50 PERCENT EXCEEDS	0.70		1.5	3.5
90 PERCENT EXCEEDS	0.17		0.36	0.68

e Estimated

10159500 PROVO RIVER BELOW DEER CREEK DAM, UT

LOCATION.--Lat 40°24'12", long 111°31'44", in NE¹/₄NE¹/₄NE¹/₄ sec. 7, T. 5 S., R. 4 E., Wasatch County, Hydrologic Unit 16020203, on right bank 200 ft upstream from Deer Creek, 1,000 ft downstream from Deer Creek Dam, and 4.1 mi northeast of Vivian Park.

DRAINAGE AREA.--547 mi².

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

REVISED RECORDS.--WDR UT-77-1: Drainage area. WDR UT-81-1: 1980.

GAGE.--Water-stage recorder. Elevation of gage is 5,260 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. Flow regulated by Deer Creek Reservoir and by small lakes at headwaters that serve as reservoirs. Small transmountain diversions from Strawberry River drain into Daniels Creek. Flow also affected by irrigation diversions above station and water diverted to Provo River by Weber-Provo diversion canal and Duchesne Tunnel, a transbasin diversion. Information is available for these stations from the Provo River Water Commissioner's Report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft³/s, Jun 3, 1983, gage height, 9.11 ft; no flow Feb 2, 3, 1957, Nov 12, 19, 1961, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 997 ft³/s, May 11; minimum daily discharge, 85 ft³/s, Dec 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	103	93	91	92	92	92	211	356	393	350	345
2	293	102	93	90	92	90	95	221	352	384	348	347
3	290	101	94	89	91	88	95	246	343	381	323	350
4	272	99	93	88	92	88	99	253	334	378	310	348
5	249	103	93	88	91	89	98	322	334	377	306	340
6	245	102	92	89	88	91	99	533	323	379	328	279
7	235	103	90	88	87	92	99	819	315	403	342	236
8	229	99	88	89	89	90	100	898	309	424	330	210
9	212	95	89	88	90	89	99	895	296	425	312	187
10	174	95	88	88	90	88	101	953	286	426	304	189
11	130	97	92	89	87	87	101	997	286	432	299	189
12	105	95	91	94	87	88	101	899	294	422	283	191
13	105	91	91	91	88	88	101	824	294	417	305	190
14	105	91	91	92	88	87	100	713	311	418	320	191
15	101	97	92	92	88	87	103	610	321	418	324	206
16	102	95	89	92	88	89	100	439	327	424	326	254
17	102	94	88	92	88	88	93	361	341	428	331	263
18	102	98	88	91	89	88	91	367	359	424	330	219
19	102	93	88	91	89	88	91	374	362	399	325	199
20	117	91	87	91	92	89	90	376	366	358	316	201
21	127	92	85	90	92	90	88	360	370	351	305	201
22	131	93	86	91	92	93	88	337	376	369	299	202
23	110	93	87	92	92	98	89	340	376	378	291	202
24	100	93	88	92	92	92	89	352	387	372	287	235
25	100	92	87	89	93	90	89	364	391	352	288	281
26	100	92	88	88	92	89	91	367	389	337	303	298
27	101	96	86	89	92	89	93	356	391	331	327	288
28	102	99	90	89	92	92	92	367	392	329	332	281
29	100	99	91	88	---	91	96	377	386	328	334	277
30	100	96	91	86	---	94	172	375	392	326	338	260
31	106	---	89	90	---	94	---	371	---	341	342	---
TOTAL	4757	2889	2778	2787	2523	2788	2935	15277	10359	11924	9858	7459
MEAN	153.5	96.30	89.61	89.90	90.11	89.94	97.83	492.8	345.3	384.6	318.0	248.6
MAX	310	103	94	94	93	98	172	997	392	432	350	350
MIN	100	91	85	86	87	87	88	211	286	326	283	187
AC-FT	9440	5730	5510	5530	5000	5530	5820	30300	20550	23650	19550	14790

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2002, BY WATER YEAR (WY)

	MEAN	210.7	174.7	211.8	205.8	219.3	243.7	313.1	596.6	799.5	503.4	423.1	347.2
MAX	490	509	508	615	772	1146	1202	1200	1613	927	575	581	
(WY)	1984	1983	1983	1997	1997	1986	1986	1984	1983	1965	1986	1986	
MIN	75.6	0.80	67.0	57.3	53.1	42.8	75.5	199	304	178	120	75.6	
(WY)	1962	1963	1993	1989	1981	1961	1961	1977	1977	1961	1961	1961	

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1954 - 2002
ANNUAL TOTAL	83444	76334	
ANNUAL MEAN	228.6	209.1	354.5
HIGHEST ANNUAL MEAN			641
LOWEST ANNUAL MEAN			148
HIGHEST DAILY MEAN	570	997	2240
LOWEST DAILY MEAN	85	85	0.00
ANNUAL SEVEN-DAY MINIMUM	87	87	0.40
ANNUAL RUNOFF (AC-FT)	165500	151400	256800
10 PERCENT EXCEEDS	419	378	603
50 PERCENT EXCEEDS	130	102	310
90 PERCENT EXCEEDS	93	88	90

10163000 PROVO RIVER AT PROVO, UT

LOCATION.--Lat 40°14'16", long 111°41'55", in NE¹/₄NW¹/₄SE¹/₄ sec. 3, T. 7 S., R. 2 E., Utah County, Hydrologic Unit 16020203, on left bank 1,300 ft downstream from bridge on State Highway 114, 2.1 mi west of Provo, and 2.1 mi upstream from mouth.

DRAINAGE AREA.--673 mi².

PERIOD OF RECORD.--May 1903 to June 1905, May 1933 to September 1934, January 1937 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "at San Pedro, Los Angeles and Salt Lake Railroad bridge, near Provo" 1903-04, and as "at Rio Grande Western Railroad bridge, near Provo" 1905.

REVISED RECORDS.--WSP 1564: 1904, 1934. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,510 ft above sea level, from topographic map. May 1903 to June 1905, nonrecording gages at site 0.8 mi upstream at different datums. May 1933 to September 1934, non-recording gage at present site at different datum. January 1937 to November 1938, water-stage recorder at site 1,000 ft upstream at different datum. November 1938 to August 1957, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station is below all diversions. At times entire flow is diverted above station for irrigation. Flow regulated by Deer Creek Reservoir, Jordanelle Reservoir, and small lakes at headwaters that serve as reservoirs. Small transmountain diversions from Strawberry River drain into Daniels Creek. Flow affected by Weber-Provo diversion canal and Duchesne Tunnel, a transbasin diversion. Certain diversions for industrial use which reach Provo Bay, an arm of Utah Lake, are made above station; however, part of this flow is used for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,520 ft³/s, May 6, 1952, gage height, 6.37 ft, datum then in use; no flow for several periods.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 742 ft³/s, May 11, gage height, 5.60 ft; minimum daily discharge, 0.30 ft³/s, Jul 19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	90	119	137	131	124	95	64	87	2.6	9.4	12
2	17	108	123	131	134	123	100	62	85	1.8	9.6	11
3	20	110	126	122	131	122	101	66	75	1.8	11	12
4	24	108	138	122	130	124	102	69	57	0.58	12	12
5	21	110	139	123	130	121	102	120	53	1.1	8.8	14
6	28	116	141	124	128	131	102	257	50	0.41	8.0	28
7	28	134	144	124	127	144	93	437	57	2.2	4.5	38
8	23	112	130	131	128	143	89	519	66	1.9	5.4	51
9	36	102	122	134	127	141	75	520	70	1.9	10	42
10	65	104	129	132	127	142	76	560	66	2.1	7.7	45
11	57	106	131	131	125	141	77	694	66	0.41	7.1	49
12	42	111	137	133	123	144	75	558	66	0.56	6.8	54
13	40	114	129	132	123	151	74	502	e58	1.4	9.7	50
14	36	105	126	131	123	148	69	375	e55	0.55	13	46
15	37	109	121	132	124	145	66	291	55	0.56	7.2	48
16	41	115	118	131	123	146	72	149	66	0.88	4.8	78
17	43	114	118	130	124	154	75	47	61	2.0	4.2	72
18	35	116	120	131	124	146	83	46	60	e0.40	19	66
19	40	104	118	132	124	147	95	41	57	e0.30	30	65
20	38	101	117	131	151	145	130	41	55	1.1	21	67
21	46	94	122	127	135	158	131	55	66	2.4	21	64
22	63	139	117	129	131	147	111	55	67	2.2	19	60
23	55	141	118	128	132	166	94	55	67	3.3	18	59
24	66	131	124	129	132	179	91	56	58	4.1	15	53
25	75	149	122	130	131	150	94	50	56	14	16	35
26	87	131	118	126	129	142	80	54	45	11	13	36
27	90	125	122	127	129	100	76	45	29	6.1	10	38
28	79	117	129	130	127	98	57	51	7.0	7.9	13	35
29	71	119	135	126	---	98	49	60	3.1	8.2	12	34
30	85	128	137	125	---	98	63	69	2.1	9.0	12	34
31	94	---	134	169	---	99	---	75	---	7.9	12	---
TOTAL	1517	3463	3924	4040	3603	4217	2597	6043	1665.2	100.65	370.2	1308
MEAN	48.94	115.4	126.6	130.3	128.7	136.0	86.57	194.9	55.51	3.247	11.94	43.60
MAX	94	149	144	169	151	179	131	694	87	14	30	78
MIN	17	90	117	122	123	98	49	41	2.1	0.30	4.2	11
AC-FT	3010	6870	7780	8010	7150	8360	5150	11990	3300	200	734	2590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2002, BY WATER YEAR (WY)

	MEAN	142.0	203.5	246.9	240.7	252.6	274.1	299.8	317.4	350.0	48.43	22.56	53.07
MAX	512	585	574	629	818	1257	1345	1396	1571	390	210	278	
(WY)	1984	1983	1983	1997	1986	1986	1986	1952	1983	1965	1983	1986	
MIN	10.9	25.6	39.4	24.7	35.5	40.9	24.3	2.22	2.33	0.68	1.12	1.56	
(WY)	1961	1963	1993	1989	1989	1961	1961	1961	1977	1946	1960	1960	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1944 - 2002

ANNUAL TOTAL	23630.3	32848.05	
ANNUAL MEAN	64.74	89.99	203.6
HIGHEST ANNUAL MEAN			553
LOWEST ANNUAL MEAN			41.5
HIGHEST DAILY MEAN	313	May 8	2420
LOWEST DAILY MEAN	1.8	Jul 24	0.10
ANNUAL SEVEN-DAY MINIMUM	2.8	Jul 21	0.46
ANNUAL RUNOFF (AC-FT)	46870	65150	147500
10 PERCENT EXCEEDS	125	141	416
50 PERCENT EXCEEDS	56	85	134
90 PERCENT EXCEEDS	7.8	7.8	6.8

e Estimated

10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UT

LOCATION.--Lat 40°26'52", long 111°40'53", in SE¹/₄NW¹/₄NE¹/₄ sec. 26, T. 4 S., R. 2 E., Utah County, Hydrologic Unit 16020201, on left bank 600 ft downstream from Rock Creek, 1,000 ft upstream from intake for upper power-plant of PacifiCorp, 4.0 mi upstream from mouth of canyon, and 6.7 mi northeast of American Fork.

DRAINAGE AREA.--51.1 mi².

PERIOD OF RECORD.--January 1927 to current year. Monthly discharge only January 1927 to September 1945, published in WSP 1314.

REVISED RECORDS.--WSP 1634 Drainage area. WDR-UT-96-1: 1995.

GAGE.--Water-stage recorder. Elevation of gage is 5,950 ft above NGVD of 1929, from topographic map. Prior to September 8, 1965, at same site at different datum. September 8, 1965 to November 20, 1967, at site 300 ft upstream.

REMARKS.--Records good. Flow regulated by Silver Lake Flat Reservoir (constructed 1971) and Tibble Reservoir; total capacity, 1,260 acre-ft.

COOPERATION.--Records collected by PacifiCorp, under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--75 years, 56.5 ft³/s, 40,930 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred Jul 30, 1953, gage height, 9.20 ft, from floodmark; minimum, 1.1 ft³/s, Dec 20, 1976 (result of freezeup).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	20	18	15	15	15	25	58	170	44	34	21
2	20	20	18	15	15	15	28	59	161	46	33	21
3	20	19	17	15	15	16	31	59	140	45	32	21
4	20	21	17	15	15	15	36	60	132	45	31	21
5	20	21	18	14	15	15	42	64	129	48	30	21
6	20	21	17	15	16	15	49	78	134	51	30	26
7	20	21	16	15	16	15	49	76	147	51	29	28
8	20	20	16	15	15	15	49	68	153	51	28	26
9	20	20	17	15	15	16	46	66	138	50	28	24
10	20	20	17	15	16	15	49	61	114	48	27	23
11	20	20	18	15	15	15	50	56	99	49	28	23
12	20	20	17	15	16	15	52	59	90	49	27	25
13	19	19	17	15	15	15	58	69	92	47	27	23
14	19	19	16	13	15	15	64	89	92	46	27	22
15	19	20	15	14	16	15	74	95	92	46	27	21
16	19	20	17	15	16	15	68	102	90	45	26	23
17	19	20	17	15	15	15	54	109	90	45	26	25
18	19	19	17	15	16	15	50	126	86	45	25	26
19	19	19	17	15	16	15	44	157	82	44	26	24
20	19	19	17	15	16	15	40	159	78	44	28	23
21	19	18	17	15	15	15	36	128	73	43	25	22
22	19	18	17	15	15	16	35	100	67	42	23	22
23	19	18	17	15	15	16	36	89	62	42	23	21
24	19	18	17	15	15	16	38	76	59	40	23	21
25	19	19	16	15	15	16	42	72	56	39	23	20
26	20	19	16	15	15	16	48	76	53	39	22	20
27	20	19	16	15	15	16	54	92	50	38	22	20
28	19	18	16	15	15	17	52	113	49	36	22	21
29	19	18	16	15	---	19	51	139	46	36	22	21
30	19	18	16	15	---	20	52	162	45	35	22	22
31	20	---	16	15	---	22	---	170	---	34	21	---
TOTAL	604	581	519	461	429	491	1402	2887	2869	1363	817	677
MEAN	19.48	19.37	16.74	14.87	15.32	15.84	46.73	93.13	95.63	43.97	26.35	22.57
MAX	20	21	18	15	16	22	74	170	170	51	34	28
MIN	19	18	15	13	15	15	25	56	45	34	21	20
AC-FT	1200	1150	1030	914	851	974	2780	5730	5690	2700	1620	1340

CAL YR 2001 TOTAL 14764 MEAN 40.45 MAX 211 MIN 15 AC-FT 29280
WTR YR 2002 TOTAL 13100 MEAN 35.89 MAX 170 MIN 13 AC-FT 25980

10166430 WEST CANYON CREEK NEAR CEDAR FORT, UT

LOCATION.--Lat 40°24'19", long 112°05'59", in NW¹/₄NE¹/₄NE¹/₄ sec. 7, T. 5 S., R. 2 W., Utah County, Hydrologic Unit 16020201, on right bank 100 ft upstream from a right bank diversion, 540 ft downstream from 6 ft culvert, and 5.3 mi north of Cedar Fort.

DRAINAGE AREA.--26.8 mi².

PERIOD OF RECORD.--July 1965 to October 1975, October 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,620 ft above NGVD of 1929, from topographic map. Prior to July 21, 1993 at site 700 ft upstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,660 ft³/s, Aug 28, 1971, gage height, 7.50 ft from slope-area measurement; minimum, 0.02 ft³/s, Jan 17, 22, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 8.3 ft³/s, May 20, gage height, 2.95 ft; minimum daily discharge, 0.08 ft³/s, Mar 29, Apr 24, 25, 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.50	0.34	e0.27	0.23	e0.19	e0.30	0.10	0.11	7.7	1.5	e1.0	0.40
2	e0.45	0.30	e0.26	0.23	e0.20	e0.26	0.10	0.15	7.5	1.6	e0.90	0.40
3	e0.42	0.32	e0.25	0.23	e0.20	e0.23	0.10	0.21	7.0	1.4	0.79	0.41
4	e0.39	0.32	0.25	0.23	e0.21	0.22	0.10	0.25	6.7	1.3	0.74	0.40
5	e0.35	0.31	e0.25	0.26	e0.22	0.19	0.10	0.39	6.1	1.2	0.67	0.42
6	e0.33	0.32	0.25	0.23	e0.23	0.13	0.10	0.52	5.9	1.2	e0.65	0.57
7	e0.32	0.40	e0.26	0.22	e0.24	0.11	0.09	0.63	6.0	1.1	e0.64	e0.47
8	e0.31	0.34	e0.27	0.23	e0.23	e0.09	0.10	1.3	5.9	1.3	e0.60	e0.44
9	e0.30	0.32	e0.27	0.22	e0.22	e0.10	0.10	2.5	5.6	1.6	e0.60	e0.41
10	0.30	0.32	e0.28	e0.21	e0.22	0.10	0.09	2.0	4.9	2.0	e0.58	e0.40
11	0.32	0.31	e0.28	e0.20	e0.22	0.10	0.10	e3.8	4.1	1.1	e0.57	e0.38
12	0.31	0.32	0.28	e0.19	e0.23	0.09	0.11	e3.8	3.7	1.8	0.57	e0.38
13	0.30	0.31	0.32	e0.18	e0.26	e0.11	0.11	e4.1	3.5	1.7	0.59	e0.36
14	0.26	0.31	0.31	e0.18	e0.27	e0.10	e0.10	e4.1	3.3	1.9	0.57	0.38
15	0.26	0.31	0.30	e0.17	e0.28	e0.10	e0.10	e3.9	3.2	1.3	0.59	0.34
16	0.26	0.31	0.28	e0.16	e0.29	e0.10	e0.09	e4.1	3.1	1.4	0.59	0.36
17	0.26	0.31	0.30	e0.16	e0.30	e0.11	e0.09	4.7	2.8	2.9	0.45	0.36
18	0.26	0.33	0.29	e0.16	e0.32	e0.11	e0.09	6.7	2.5	4.2	0.42	0.48
19	0.26	0.32	0.28	e0.17	e0.33	e0.12	e0.09	e7.8	2.5	e4.0	0.41	0.33
20	0.26	0.31	0.28	e0.18	e0.33	e0.12	e0.10	e8.3	2.7	2.9	0.44	0.31
21	0.27	0.33	0.27	e0.19	e0.34	0.12	e0.10	6.9	2.6	1.7	0.42	0.30
22	0.28	0.42	0.27	e0.19	e0.35	0.12	e0.09	5.9	3.0	1.6	0.43	0.28
23	0.29	0.27	0.27	e0.20	e0.36	0.11	0.09	5.5	3.2	1.6	0.42	0.27
24	0.31	0.26	e0.27	e0.21	e0.35	0.11	0.08	5.1	3.4	e1.6	0.43	0.27
25	0.34	0.37	e0.27	e0.22	e0.34	0.11	0.08	4.6	2.5	e1.7	0.43	0.27
26	0.35	0.27	e0.25	e0.23	e0.33	0.10	0.08	e5.4	e2.0	e1.7	0.43	0.27
27	0.32	e0.27	e0.24	e0.22	e0.34	0.11	0.10	e5.6	e1.6	e1.7	0.44	0.28
28	0.29	e0.28	e0.23	e0.22	e0.33	0.10	0.09	e5.1	1.5	1.7	0.42	0.27
29	0.29	e0.28	e0.23	e0.20	---	0.08	0.09	5.4	1.6	1.5	0.43	0.27
30	0.44	e0.27	e0.23	e0.19	---	0.10	0.09	5.5	1.4	e1.4	0.40	0.28
31	0.44	---	e0.23	e0.18	---	0.10	---	6.7	---	e1.2	0.41	---
TOTAL	10.04	9.45	8.29	6.29	7.73	3.95	2.85	121.06	117.5	54.8	17.03	10.76
MEAN	0.324	0.315	0.267	0.203	0.276	0.127	0.095	3.905	3.917	1.768	0.549	0.359
MAX	0.50	0.42	0.32	0.26	0.36	0.30	0.11	8.3	7.7	4.2	1.0	0.57
MIN	0.26	0.26	0.23	0.16	0.19	0.08	0.08	0.11	1.4	1.1	0.40	0.27
AC-FT	20	19	16	12	15	7.8	5.7	240	233	109	34	21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966-75, 1987-2002, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1987	1988
MEAN	1.338	1.120	0.746	0.599	0.574	1.069	4.268	13.60	11.52	5.091	2.646	1.520
MAX	4.16	3.40	2.05	1.53	1.56	3.59	17.4	44.2	29.0	21.2	8.90	4.47
(WY)	1996	1996	1996	1999	1987	1996	1969	1973	1995	1975	1975	1975
MIN	0.17	0.17	0.10	0.062	0.057	0.11	0.095	3.05	1.63	0.66	0.26	0.21
(WY)	1993	1991	1993	1991	1991	1990	2002	1990	1992	1992	1992	1989

10166430 WEST CANYON CREEK NEAR CEDAR FORT, UT--Continued

SUMMARY STATISTICS

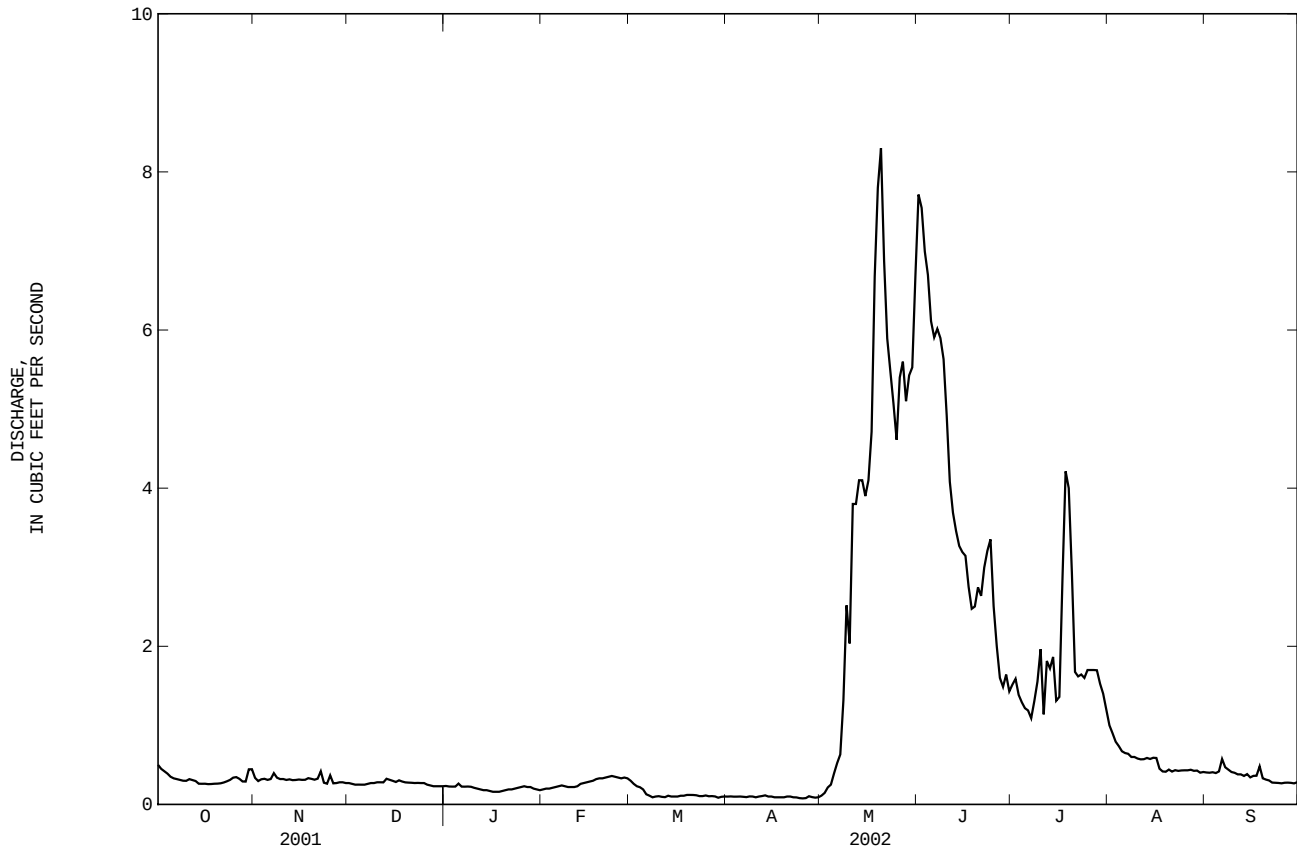
FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1966-75, 1987-2002

ANNUAL TOTAL	533.46	369.75		
ANNUAL MEAN	1.462	1.013	3.688	
HIGHEST ANNUAL MEAN			8.65	1973
LOWEST ANNUAL MEAN			0.89	1992
HIGHEST DAILY MEAN	13 May 17	8.3 May 20	85 May 20	1973
LOWEST DAILY MEAN	0.19 Mar 15	0.08 Mar 29	0.03 Oct 2	1992
ANNUAL SEVEN-DAY MINIMUM	0.20 Mar 14	0.09 Apr 22	0.05 Jan 17	1991
ANNUAL RUNOFF (AC-FT)	1060	733	2670	
10 PERCENT EXCEEDS	4.3	3.4	11	
50 PERCENT EXCEEDS	0.38	0.31	1.2	
90 PERCENT EXCEEDS	0.26	0.10	0.23	

e Estimated



10168000 LITTLE COTTONWOOD CREEK AT JORDAN RIVER NEAR SALT LAKE CITY, UT

LOCATION.--Lat 40°39'51", long 111°53'53", in SW¹/₄NW¹/₄NE¹/₄ sec. 12, T. 2 S., R. 1 W., Salt Lake County, on right bank 10 ft upstream from 300 W. bridge, and 3000 ft upstream from mouth.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to September 1981, October 1, 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,255 ft above NGVD of 1929, from topographic map. Records previous to October 1998 published by the U.S.G.S. from water stage recorder at site approximately 1000 feet downstream at different datum. Additional discharge records available from Salt Lake County Engineering.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated. Diversions for irrigation and return flow from irrigation canals.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 522 ft³/s, May 16, 2001, gage height 4.16 ft; minimum daily discharge, 0.35 ft³/s, Nov 5, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 361 ft³/s, May 31, gage height, 3.33 ft; minimum daily discharge, 0.35 ft³/s, Nov 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	4.6	3.0	1.6	1.6	1.6	2.0	18	267	16	9.6	11
2	11	2.1	12	1.7	1.6	1.7	1.9	15	269	5.9	8.3	12
3	9.1	0.86	16	1.2	1.6	1.5	1.9	28	204	2.1	8.2	11
4	10	0.58	13	1.4	1.6	1.6	2.0	34	150	2.8	7.1	11
5	11	0.35	6.4	1.5	1.7	1.6	2.8	34	138	4.6	6.1	11
6	12	1.2	12	1.3	1.6	e1.6	5.9	40	161	4.9	6.9	27
7	13	20	21	1.5	1.6	e1.6	5.6	62	182	3.8	7.2	10
8	16	4.0	5.3	1.9	2.6	e7.4	5.1	78	171	3.6	7.3	37
9	33	2.7	3.7	1.7	2.1	2.8	3.5	50	146	3.7	8.5	10
10	18	1.2	3.2	1.5	1.7	1.8	2.0	46	74	5.5	10	16
11	16	1.2	3.4	1.4	1.6	1.5	2.2	56	31	5.6	8.8	14
12	15	2.6	3.2	1.3	1.7	1.2	2.1	44	15	5.9	9.6	13
13	14	0.74	2.7	1.3	1.7	26	1.7	37	23	4.4	8.5	14
14	15	1.0	2.5	1.3	1.7	8.3	1.6	44	22	4.3	8.4	12
15	23	1.1	3.1	1.3	1.7	3.5	18	70	31	6.1	11	8.4
16	7.8	1.2	2.6	1.3	1.8	1.9	42	72	27	4.2	7.8	28
17	3.3	1.3	2.7	1.4	1.9	8.4	31	102	28	6.1	6.5	35
18	2.4	2.6	2.6	1.4	1.9	4.4	17	120	18	7.9	6.6	34
19	1.8	1.5	2.5	1.4	1.8	2.7	14	157	8.2	9.3	7.2	12
20	1.4	1.4	2.5	1.5	8.4	1.9	11	179	5.3	10	15	12
21	1.5	1.4	2.2	1.5	5.4	1.5	5.2	232	4.4	10	13	11
22	0.89	53	2.0	2.3	2.7	1.8	3.3	172	3.9	10	13	9.4
23	0.63	33	1.9	1.8	1.9	1.5	1.8	117	3.2	8.3	11	8.5
24	1.3	9.2	1.7	1.6	1.4	38	1.8	93	3.1	6.0	9.2	5.4
25	1.6	11	1.6	1.6	1.2	20	1.9	56	3.9	7.8	6.4	4.3
26	1.6	13	1.6	1.6	1.7	7.6	4.8	41	7.8	8.0	9.1	3.2
27	1.8	7.4	1.6	1.8	1.6	3.1	23	38	14	8.3	8.2	3.0
28	2.5	4.1	1.4	1.9	1.6	2.3	12	39	14	10	6.5	4.5
29	2.9	3.3	1.3	2.0	---	2.0	8.9	86	14	9.8	8.3	4.2
30	5.6	4.0	1.4	1.8	---	1.9	12	184	18	10	12	7.2
31	44	---	1.5	1.7	---	1.7	---	260	---	15	9.3	---
TOTAL	311.12	191.63	141.6	48.5	59.4	164.4	248.0	2604	2056.8	219.9	274.6	399.1
MEAN	10.04	6.388	4.568	1.565	2.121	5.303	8.267	84.00	68.56	7.094	8.858	13.30
MAX	44	53	21	2.3	8.4	38	42	260	269	16	15	37
MIN	0.63	0.35	1.3	1.2	1.2	1.2	1.6	15	3.1	2.1	6.1	3.0
AC-FT	617	380	281	96	118	326	492	5170	4080	436	545	792

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

	MEAN	30.47	12.12	9.141	7.350	6.722	10.93	32.46	142.4	199.0	76.40	30.88	35.11
MAX	70.9	53.9	20.3	19.4	12.2	26.1	78.1	303	528	304	124	83.2	
(WY)	1984	1983	1987	1984	1987	1983	1986	1984	1983	1983	1983	1982	
MIN	5.82	2.29	2.45	2.28	2.26	3.84	10.1	33.6	31.7	6.88	8.64	8.42	
(WY)	2000	2000	2001	2001	2001	2000	1991	1990	1988	2000	2000	1999	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1999 - 2002

ANNUAL TOTAL	8381.25	6719.05	
ANNUAL MEAN	22.96	18.41	49.80
HIGHEST ANNUAL MEAN			117
LOWEST ANNUAL MEAN			10.2
HIGHEST DAILY MEAN	416	269	898
LOWEST DAILY MEAN	0.35	0.35	0.46
ANNUAL SEVEN-DAY MINIMUM	1.3	1.3	1.2
ANNUAL RUNOFF (AC-FT)	16620	13330	36080
10 PERCENT EXCEEDS	60	39	131
50 PERCENT EXCEEDS	5.3	5.4	13
90 PERCENT EXCEEDS	1.4	1.5	4.1

e Estimated

10168000 LITTLE COTTONWOOD CREEK AT JORDAN RIVER NEAR SALT LAKE CITY, UT--Continued
(National Water-Quality Assessment Program Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1979 to August 1982, October 1998 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1998 to current year.

WATER TEMPERATURE: October 1998 to current year.

INSTRUMENTATION.--Temperature/conductivity data logger.

REMARKS.--Specific conductivity and temperature records good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 15,100 microsiemens, Jan 27, 1999; minimum, 98 microsiemens, Nov 22, 2001.

WATER TEMPERATURE: Maximum, 26.8°C, Jul 13, 2002; minimum, 0.0°C, Jan 19, 2002

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 11,300 microsiemens, Jan 22; minimum, 98 microsiemens, Nov 22.

WATER TEMPERATURE: Maximum, 26.8°C, Jul 13; minimum, 0.0°C, Jan 19.

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

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (000061)	BARO-METRIC PRES-SURE (MM OF HG) (000025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CAC03 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	
NOV 14...	1040	.98	660	99	9.7	7.7	1200	11.5	10.0	--	--	--	--	
27...	1600	4.4	--	--	--	7.8	4470	--	4.6	270	110	71.7	23.1	
JAN 14...	1140	1.3	652	124	14.2	7.9	1760	3.0	3.3	--	--	--	--	
MAR 28...	1330	2.5	656	161	15.0	8.2	1480	16.0	11.9	--	--	--	--	
APR 23...	1300	2.5	650	136	12.2	8.1	1310	21.5	13.0	--	--	--	--	
MAY 21...	1050	248	642	108	10.6	7.8	341	--	8.5	--	--	--	--	
JUN 27...	1330	12	651	109	8.0	8.0	1630	37.0	22.9	--	--	--	--	
JUL 25...	1300	10	658	122	9.0	8.4	1790	31.5	23.7	--	--	--	--	
SEP 11...	1120	16	656	103	8.5	8.4	1800	24.0	17.2	--	--	--	--	
Date		POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HC03) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS C03) (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SI02) (00955)	SULFATE DIS-SOLVED (MG/L AS S04) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV 14...	--	--	--	--	--	292	357	--	151	--	--	118	E.04	.40
27...	8.82	22	841	87	168	205	--	1360	.3	8.04	72.3	--	--	--
JAN 14...	--	--	--	--	--	319	390	--	296	--	--	158	.05	.43
MAR 28...	--	--	--	--	--	271	331	--	242	--	--	125	<.04	.34
APR 23...	--	--	--	--	--	239	292	--	196	--	--	124	E.04	.34
MAY 21...	--	--	--	--	--	59	72	--	40.3	--	--	35.7	<.04	.83
JUN 27...	--	--	--	--	--	221	269	--	266	--	--	220	.06	.88
JUL 25...	--	--	--	--	--	211	250	3	299	--	--	249	<.04	1.2
SEP 11...	--	--	--	--	--	177	210	3	310	--	--	256	<.04	1.4

10168000 LITTLE COTTONWOOD CREEK AT JORDAN RIVER NEAR SALT LAKE CITY, UT--Continued
(National Water-Quality Assessment Program Station)

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

Date	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04) (00660)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)
NOV 14...	.48	.50	--	.90	--	2.14	.046	.014	--	E.01	.051	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	3.54	31.0
JAN 14...	.83	.85	.39	1.3	.06	3.69	.056	.017	--	E.01	.039	--	--
MAR 28...	.54	.56	--	.89	--	2.39	.056	.017	--	E.01	.031	--	--
APR 23...	.33	.34	--	.68	--	1.45	.030	.009	--	E.01	.038	--	--
MAY 21...	.37	.38	--	1.2	--	1.63	.033	.010	--	E.01	.145	--	--
JUN 27...	.40	.42	.82	1.3	.08	1.79	.066	.020	.123	.04	.117	--	--
JUL 25...	--	.06	--	1.2	--	--	--	E.005	--	<.02	.139	--	--
SEP 11...	--	.22	--	1.6	--	--	--	E.006	--	<.02	.149	--	--

Date	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
NOV 14...	--	--	--	--	.27	102
27...	2600	2490	131	150	--	--
JAN 14...	--	--	--	--	.14	42
MAR 28...	--	--	--	--	.04	6.0
APR 23...	--	--	--	--	.22	33
MAY 21...	--	--	--	--	49.6	74
JUN 27...	--	--	--	--	.65	20
JUL 25...	--	--	--	--	1.5	52
SEP 11...	--	--	--	--	2.7	64

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2) (70957)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI- PHYTON BIOMASS DRY WEIGHT G/SQ M (00573)	BIOMASS CHLORO- PHYLL RATIO PERI- PHYTON (UNITS) (70950)	PHEO- PHYTIN A, PERI- PHYTON (MG/M2) (62359)
AUG 05...	1235	9.0	10.2	8.5	1810	22.5	32.0	170	216.3	1360	7.6

E Estimated value.

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

10168000 LITTLE COTTONWOOD CREEK AT JORDAN RIVER NEAR SALT LAKE CITY, UT--Continued
(National Water-Quality Assessment Program Station)

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

Date	Time	2, 6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	
NOV 14...	1040	<.002	<.004	<.002	<.005	.009	<.010	<.002	E.009	<.020	<.005	<.018	<.003	
JAN 14...	1140	<.006	<.006	<.004	<.005	.010	<.010	<.002	<.041	<.020	<.005	<.018	<.003	
MAR 28...	1330	<.006	<.006	<.004	<.005	.011	<.010	<.002	<.041	<.020	<.005	<.018	<.003	
APR 23...	1300	<.006	<.006	<.004	<.005	.009	<.010	<.002	E.008	<.020	<.005	<.018	.004	
MAY 21...	1050	<.006	<.006	<.004	<.005	<.008	<.010	<.002	E.072	E.022	<.005	<.018	E.003	
JUN 27...	1330	<.006	<.006	<.004	<.005	.132	<.010	<.002	E.008	<.020	<.005	<.018	<.003	
JUL 25...	1300	<.006	<.006	<.010	<.005	.014	<.010	<.002	E.026	<.020	<.005	<.018	<.003	
SEP 11...	1120	<.006	<.006	<.004	<.005	.011	<.010	<.002	E.009	<.020	<.005	<.018	E.002	
Date		DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)
NOV 14...	E.006	100	.013	<.005	<.02	<.002	<.009	<.005	<.003	94.0	<.004	<.035	<.027	
JAN 14...	E.009	92.9	.777	<.005	<.02	<.100	<.009	<.005	<.003	82.9	<.004	<.035	<.027	
MAR 28...	E.005	105	.052	<.005	<.02	<.002	<.009	<.005	<.003	89.0	<.004	<.035	<.027	
APR 23...	E.006	96.2	.014	<.005	<.02	<.002	<.009	<.005	<.003	94.0	<.004	<.035	<.027	
MAY 21...	<.006	108	.190	<.005	<.02	<.002	<.009	<.005	<.003	100	<.004	<.035	E.018	
JUN 27...	E.020	116	.115	<.005	<.02	<.002	<.009	<.005	<.003	99.1	<.004	<.035	<.027	
JUL 25...	E.007	115	.025	<.005	<.02	<.002	<.009	<.005	<.003	102	<.004	<.035	<.027	
SEP 11...	E.006	110	.018	<.005	<.02	<.002	<.009	<.005	<.003	103	<.004	<.035	<.027	
Date		METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P, P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)
NOV 14...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	E.006	<.006	<.011	.041	
JAN 14...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	.042	
MAR 28...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	E.015	<.006	<.011	.046	
APR 23...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	.029	<.006	<.011	.046	
MAY 21...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	.024	<.006	<.011	.037	
JUN 27...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	.026	
JUL 25...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	.034	
SEP 11...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	.017	

JORDAN RIVER BASIN

10168000 LITTLE COTTONWOOD CREEK AT JORDAN RIVER NEAR SALT LAKE CITY, UT--Continued
(National Water-Quality Assessment Program Station)

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

Date	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
NOV 14...	<.004	<.010	<.011	<.023	<.011	.042	<.034	<.017	<.005	<.002	<.009
JAN 14...	<.004	<.010	<.011	<.023	<.005	.050	<.034	<.017	<.005	<.002	<.009
MAR 28...	<.004	<.010	<.011	<.023	<.005	.043	<.034	<.017	<.005	<.002	<.009
APR 23...	<.004	<.010	<.011	<.023	<.005	E.033	<.034	<.017	<.005	<.002	E.002
MAY 21...	<.004	<.010	<.011	<.023	<.005	<.016	<.034	<.017	<.005	<.002	<.009
JUL 27...	<.004	<.010	<.011	<.023	E.005	.017	<.034	<.017	<.005	<.002	<.009
JUL 25...	<.004	<.010	<.011	<.023	.008	<.016	<.034	<.017	<.005	<.002	<.009
SEP 11...	<.004	<.010	<.011	<.023	.006	E.015	<.034	<.017	<.005	<.002	<.009

E Estimated value.

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

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	1580	1470	1530	698	459	588	5320	3560	4510	4160	2180	3280
2	1590	1540	1560	863	698	788	3560	1480	2150	4470	3560	3930
3	1560	1530	1550	987	863	922	2250	1550	1690	4070	3450	3830
4	1570	1340	1530	1140	987	1050	5630	1980	3120	7010	3140	4370
5	1590	1510	1570	1260	1140	1200	5600	3370	3850	6260	3530	4290
6	1740	1550	1640	1370	1260	1310	3590	1180	3040	3760	3360	3500
7	1750	1630	1720	1370	192	609	1250	769	1080	3480	3000	3300
8	1780	1640	1720	823	460	673	1320	1240	1290	3650	3040	3430
9	1780	689	1200	981	823	911	1280	1180	1220	3280	2320	2750
10	1560	1290	1460	1110	958	1050	1200	1100	1170	2420	2070	2210
11	1580	1430	1530	1260	1110	1180	4160	1170	2390	2070	1870	2000
12	1620	1390	1530	1300	898	1210	3740	1740	2780	1910	1650	1830
13	1670	1550	1630	1110	923	1030	3380	2390	2700	1850	1760	1800
14	1710	1650	1690	1280	1070	1200	2570	2030	2300	1900	1710	1750
15	1810	1710	1770	1370	1280	1310	8520	2100	4210	2160	1720	1790
16	1820	1710	1780	1420	1270	1380	4860	2760	3620	2230	1910	2010
17	1760	1590	1640	1440	1360	1420	4640	3590	4300	2100	1620	1790
18	1600	1520	1550	1450	1190	1360	5960	3540	4350	4600	1710	2150
19	1560	1480	1510	1230	1080	1200	5030	2850	3480	5780	2950	4080
20	1510	1160	1410	1310	1160	1250	3770	2970	3570	3500	2860	3180
21	1490	1370	1450	1370	1250	1350	3100	2780	2950	3090	2670	2870
22	1500	1430	1460	1380	98	563	3000	2280	2540	11300	2790	5870
23	1520	1460	1500	3170	181	997	2320	2230	2270	8070	4570	5410
24	1550	1500	1530	1770	1580	1720	2460	2120	2340	4570	3350	3950
25	1570	1540	1560	2900	1420	1840	2500	2050	2290	3570	3350	3500
26	1590	1530	1560	6360	2360	4860	2150	1810	1960	3500	3090	3310
27	1620	1510	1600	6110	4200	4760	1810	1520	1660	3220	2740	2960
28	1630	1450	1620	4290	3300	3940	1620	1380	1530	3570	2880	3160
29	1650	1540	1630	3300	2600	2880	1430	1300	1370	3060	2590	2830
30	1670	1010	1580	4220	2630	3250	4480	1340	2450	2860	2650	2750
31	1270	127	391	---	---	---	4410	2270	2890	2980	2400	2850
MONTH	1820	127	1530	6360	98	1590	8520	769	2620	11300	1620	3120

10168000 LITTLE COTTONWOOD CREEK AT JORDAN RIVER NEAR SALT LAKE CITY, UT--Continued
(National Water-Quality Assessment Program Station)

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2820	2620	2740	1600	1500	1560	1650	1570	1610	586	452	487
2	2780	2580	2690	1580	1510	1560	1590	1530	1570	606	444	507
3	2750	2450	2580	1580	1480	1540	1590	1520	1560	1300	472	966
4	2560	2230	2360	1540	1450	1500	1570	1520	1550	1400	1110	1270
5	2310	2050	2150	1510	1440	1480	1550	1340	1470	1400	943	1130
6	2050	1890	1940	---	---	---	1350	846	1110	1220	705	955
7	1960	1790	1870	---	---	---	942	838	867	705	505	588
8	7600	1750	3040	---	---	---	1130	942	1030	587	371	489
9	5080	3220	4590	7070	2960	4870	1130	967	1050	721	491	564
10	4930	2510	3690	3300	2010	2800	1510	1130	1310	1010	517	771
11	2510	2410	2460	2430	1770	2120	1560	1510	1520	1100	680	905
12	2500	2120	2290	1810	1740	1770	1560	1450	1510	1190	731	1030
13	2260	1860	2070	2040	369	978	1600	1520	1560	1370	948	1190
14	2080	1830	1940	7150	635	2380	1770	1580	1670	1090	653	954
15	2000	1610	1870	6490	3150	3960	1780	474	1270	768	595	647
16	1960	1680	1820	3150	2360	2690	518	389	459	874	586	700
17	1830	1620	1750	8420	2240	4040	631	430	525	676	442	566
18	1710	1590	1670	5120	3610	4460	727	491	617	794	421	557
19	1700	1620	1660	3610	1930	2850	693	466	596	626	317	488
20	2450	1020	1690	2450	1930	2190	868	477	707	557	316	476
21	1260	994	1180	1980	1880	1950	953	605	817	420	312	341
22	1510	1260	1390	2010	1780	1890	1170	952	1080	584	395	486
23	1560	1460	1520	1800	1700	1760	1350	1150	1280	848	414	675
24	1560	1480	1530	2680	353	853	1360	1320	1340	1170	651	955
25	1580	1380	1520	853	527	632	1360	1230	1300	1400	939	1180
26	1620	1460	1570	1050	673	811	1310	817	1040	1680	1190	1480
27	1630	1470	1570	1420	1050	1280	900	193	559	1710	1380	1590
28	1630	1560	1590	1500	1420	1460	669	354	523	1750	951	1510
29	---	---	---	1580	1500	1530	732	574	656	990	494	797
30	---	---	---	1620	1520	1570	644	554	586	1130	571	897
31	---	---	---	1620	1550	1590	---	---	---	881	274	413
MONTH	7600	994	2100	---	---	---	1780	193	1090	1750	274	825

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	366	276	325	1760	1640	1700	1710	1610	1670	---	---	---
2	399	265	361	1650	1510	1550	1700	1570	1630	---	---	---
3	476	336	398	1540	1370	1510	1790	1540	1670	---	---	---
4	506	334	414	1540	1350	1460	1820	1630	1760	---	---	---
5	551	394	461	1560	1420	1540	1810	1640	1760	---	---	---
6	503	333	434	1570	1400	1510	1830	1660	1750	---	---	---
7	411	258	366	1580	1420	1550	1800	1630	1740	---	---	---
8	323	230	279	1590	1350	1530	1850	1690	1770	---	---	---
9	388	268	329	1610	1450	1550	1760	1640	1730	---	---	---
10	599	322	439	1670	1490	1630	1780	1680	1750	---	---	---
11	976	496	614	1650	1570	1630	1860	1670	1800	---	---	---
12	1100	806	944	1670	1510	1610	1880	1730	1860	1780	1630	1720
13	1210	532	760	1690	1500	1650	1910	1750	1890	1810	1690	1760
14	1170	675	810	1680	1480	1640	1930	1760	1890	1840	1690	1760
15	1100	667	783	1720	1510	1670	1920	1670	1850	1820	1740	1770
16	946	527	668	1740	1570	1690	1910	1710	1840	1800	325	1450
17	900	419	633	1750	1400	1690	1940	1780	1890	1140	310	834
18	1040	640	815	1810	1550	1740	1940	1750	1880	1060	398	753
19	1110	751	905	1700	1590	1640	1970	1750	1890	1600	1060	1340
20	1180	874	1010	1740	1550	1690	1990	1060	1760	1730	1520	1620
21	1290	1140	1240	1770	1590	1730	1980	1210	1730	1770	1720	1740
22	1330	1190	1260	1780	1640	1720	2000	1810	1940	1780	1420	1660
23	1300	1170	1230	1780	1320	1640	2000	1720	1870	1800	1650	1750
24	1430	1210	1350	1760	1580	1710	2020	1810	1940	1810	1630	1720
25	1430	1250	1330	1820	1650	1780	2000	1740	1870	1760	1610	1690
26	1750	1230	1400	1830	1680	1740	2000	1830	1940	1800	1620	1740
27	1770	1550	1670	1730	1610	1680	2000	1740	1900	1810	1510	1680
28	1720	1580	1670	1840	1660	1780	2000	1780	1890	1810	1700	1770
29	1720	1600	1660	1860	1680	1830	2040	1710	1910	1820	1650	1720
30	1730	1510	1630	1870	1720	1830	---	---	---	1820	1680	1750
31	---	---	---	1820	1670	1760	---	---	---	---	---	---
MONTH	1770	230	873	1870	1320	1660	---	---	---	---	---	---

JORDAN RIVER BASIN

10168000 LITTLE COTTONWOOD CREEK AT JORDAN RIVER NEAR SALT LAKE CITY, UT--Continued
(National Water-Quality Assessment Program Station)

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	19.5	15.6	17.6	11.9	9.6	10.7	4.4	3.0	3.6	5.6	4.4	4.9
2	19.0	16.2	17.6	11.1	9.0	10.2	6.6	4.3	5.2	4.6	2.7	3.7
3	17.8	14.5	16.3	11.1	8.8	10.0	4.7	3.7	4.3	4.2	2.7	3.5
4	17.5	13.9	15.7	11.1	8.6	10	4.4	3.4	3.9	4.9	3.1	3.8
5	16.6	13.8	15.2	12.1	10.2	11.2	4.3	2.9	3.6	4.0	1.9	3.0
6	16.3	13.3	14.9	13.6	11.4	12.4	6.6	3.6	5.2	5.3	3.6	4.4
7	16.9	14.2	15.6	13.0	10.6	11.9	4.7	2.9	3.8	6.6	4.8	5.5
8	15.8	14.3	15.0	10.6	8.5	9.6	4.5	2.4	3.5	5.6	4.3	4.9
9	14.8	11.9	13.3	9.5	7.2	8.6	5.1	3.2	4.1	5.9	4.3	5.0
10	12.9	10.4	11.6	10.3	8.1	9.1	4.7	3.4	4.0	5.3	3.6	4.5
11	11.6	10.1	10.7	10.6	8.3	9.5	4.2	3.1	3.6	5.7	3.6	4.5
12	11.5	8.4	9.8	11.2	9.5	10.3	4.4	2.9	3.5	5.3	3.8	4.3
13	12.6	9.9	10.9	10.8	9.4	10.1	3.4	2.1	2.9	5.1	2.8	3.7
14	12.8	9.3	11.1	11.2	9.3	10.1	4.4	3.3	3.9	4.3	2.2	3.1
15	12.7	9.7	11.3	10.7	8.2	9.5	3.3	1.7	2.7	3.0	1.9	2.4
16	12.8	9.3	10.9	10.2	7.4	8.9	2.6	0.3	1.4	3.2	1.2	2.1
17	13.5	11.4	12.4	10.0	7.2	8.7	3.1	1.3	2.1	3.2	0.7	2.0
18	13.4	11.3	12.1	10.5	8.4	9.2	3.6	1.6	2.6	2.2	0.9	1.5
19	11.7	9.3	10.7	9.5	7.1	8.4	4.6	2.7	3.5	2.4	0.0	1.3
20	13.3	10.4	11.7	9.1	6.5	7.8	4.4	2.6	3.5	3.4	1.4	2.3
21	12.6	10.9	11.8	9.5	7.2	8.4	3.9	2.7	3.3	4.8	2.2	3.3
22	12.9	11.5	12.1	9.6	6.2	8.1	4.1	2.3	3.2	3.8	1.5	2.9
23	12.2	10.0	11.4	6.2	3.4	4.2	2.7	0.8	1.8	3.1	0.4	1.6
24	10.2	8.5	9.4	5.0	3.0	4.0	2.6	0.4	1.4	3.3	0.7	1.8
25	10.2	7.5	8.9	5.2	1.5	2.8	2.2	0.8	1.3	3.5	0.8	2.1
26	10.7	7.7	9.2	4.3	2.2	3.3	2.1	0.8	1.4	4.7	2.5	3.6
27	11.6	8.6	10.1	4.6	2.8	3.5	3.1	1.5	2.1	4.7	4.1	4.3
28	13.5	11.1	12.2	3.3	1.6	2.6	4.0	2.1	2.9	4.4	2.3	3.6
29	14.1	11.7	12.9	4.2	3.1	3.5	4.1	2.6	3.2	3.4	0.9	2.0
30	13.2	12.2	12.8	5.8	4.0	4.8	4.2	2.9	3.6	2.2	0.1	0.9
31	12.8	10.2	10.9	---	---	---	4.9	3.6	4.2	3.3	0.5	1.2
MONTH	19.5	7.5	12.5	13.6	1.5	8.0	6.6	0.3	3.2	6.6	0.0	3.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.7	0.1	1.2	6.0	2.3	3.7	14.8	8.9	12.0	13.2	8.7	11.1
2	3.1	0.1	1.4	5.6	1.1	3.0	15.2	9.9	12.5	13.6	7.1	10.4
3	3.3	0.2	1.5	6.3	1.1	3.4	14.9	9.3	12.1	13.8	9.8	11.8
4	3.2	0.4	1.5	7.8	1.9	4.5	15.5	9.5	12.6	16.3	10.7	13.1
5	3.6	0.9	1.9	8.9	3.3	5.8	16.0	10.4	13.4	15.3	11.6	13.4
6	3.9	0.7	1.9	---	---	---	14.6	11.9	13.3	16.3	9.1	12.7
7	4.1	0.6	2.1	---	---	---	15.3	10.0	12.6	13.3	8.3	10.4
8	4.5	1.9	3.1	---	---	---	14.4	10.1	12.3	9.5	4.4	7.0
9	4.5	1.3	2.7	6.4	0.3	3.4	13.0	10.0	11.7	10.9	4.5	7.7
10	4.9	0.8	2.7	6.8	4.1	5.4	14.6	11.2	12.7	9.8	7.6	8.8
11	5.5	1.4	3.2	9.1	5.0	7.1	14.2	10.2	12.4	10.7	8.7	9.7
12	5.5	1.9	3.3	7.9	6.6	7.3	15.5	11.6	13.5	14.2	8.3	11.0
13	4.6	1.3	3.0	7.3	3.2	5.3	16.6	11.3	14.0	16.7	10.6	13.4
14	6.0	3.0	4.0	6.5	2.5	4.1	15.6	12.8	13.9	16.4	11.2	13.5
15	6.1	1.8	3.7	7.6	2.1	4.8	14.0	9.3	12.5	12.7	8.3	10.7
16	6.0	2.6	4.1	7.1	4.5	5.7	9.3	6.0	7.7	14.5	9.2	11.6
17	6.2	3.4	4.7	5.6	2.3	3.8	7.7	4.7	6.1	13.8	7.3	10.7
18	6.6	4.1	5.2	7.5	1.9	4.5	8.0	5.1	6.3	14.7	8.3	11.1
19	7.3	4.2	5.7	8.2	2.7	5.5	9.0	6.1	7.4	14.1	7.9	10.5
20	7.0	4.1	5.8	10.6	4.6	7.6	8.3	6.2	7.0	13.7	8.6	10.7
21	6.5	1.7	4.2	12.0	6.5	9.2	12.1	5.6	8.5	9.9	6.6	8.1
22	8.4	3.9	6.1	12.9	7.5	10.4	14.1	8.1	11.0	8.3	6.1	7.1
23	8.9	6.1	7.1	11.7	9.0	10.2	14.6	10.1	12.5	10.4	6.3	8.2
24	8.7	6.2	7.0	9.1	5.6	6.9	13.7	9.5	11.8	12.6	7.9	10.0
25	7.7	3.6	5.2	7.9	4.5	6.1	13.6	9.8	11.7	14.6	10.0	12.5
26	6.4	1.9	4.0	10.8	4.3	7.5	16.5	11.1	13.5	16.9	12.3	14.7
27	7.2	2.4	4.4	12.1	7.2	9.6	13.8	9.3	10.8	19.3	14.7	16.6
28	6.1	3.7	4.6	12.7	7.5	10.2	13.2	8.4	10.6	20.1	15.0	17.2
29	---	---	---	13.0	8.3	10.7	15.6	9.2	12.2	17.0	12.2	14.5
30	---	---	---	13.8	8.2	11.0	15.0	10.3	12.8	15.0	9.1	11.4
31	---	---	---	14.8	8.9	11.6	---	---	---	13.6	7.6	10.0
MONTH	8.9	0.1	3.8	---	---	---	16.6	4.7	11.4	20.1	4.4	11.3

10168000 LITTLE COTTONWOOD CREEK AT JORDAN RIVER NEAR SALT LAKE CITY, UT--Continued
(National Water-Quality Assessment Program Station)

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	10.6	8.2	9.1	25.8	20.6	23.0	23.5	19.9	21.8	---	---	---
2	11.4	7.8	9.5	24.6	20.3	22.5	22.4	20.4	21.3	---	---	---
3	12.4	8.3	10.0	23.3	20.9	22.2	23.7	19.5	21.3	---	---	---
4	13.6	8.0	10.4	24.4	19.5	21.9	23.8	19.4	21.3	---	---	---
5	15.0	8.8	11.4	25.0	20.3	22.5	22.9	18.7	20.8	---	---	---
6	15.3	9.4	12.1	25.6	21.1	23.1	21.8	19.0	20.5	---	---	---
7	14.5	9.6	11.7	25.6	21.4	23.3	23.0	19.4	21.0	---	---	---
8	12.6	8.6	10.3	25.3	21.1	23.1	21.9	18.3	20.1	---	---	---
9	9.7	6.8	7.5	25.3	20.5	22.9	21.4	16.8	19.0	---	---	---
10	11.8	5.8	8.5	25.5	20.8	23.1	21.9	16.4	19.0	---	---	---
11	14.5	8.5	11.4	26.2	21.2	23.7	22.8	17.3	19.8	---	---	---
12	17.5	11.6	14.4	26.4	21.2	23.7	22.4	18.1	20.2	18.8	16.9	17.7
13	18.0	11.4	14.9	26.8	21.7	24.1	22.6	17.5	20.0	20.3	16.8	18.3
14	18.9	13.7	16.4	26.6	21.8	24.1	22.9	17.6	20.2	20.4	16.0	18.1
15	19.1	14.2	16.8	26.4	22.4	24.4	23.4	18.0	20.4	20.1	16.2	18.1
16	19.7	13.4	16.7	25.6	22.6	23.9	23.2	18.4	20.8	19.0	16.2	17.4
17	18.9	13.0	16.5	25.6	22.0	23.6	23.1	18.5	20.9	17.2	15.4	16.2
18	20.1	14.8	17.5	23.8	21.6	22.7	22.8	19.4	21.1	15.8	14.6	15.3
19	19.8	16.3	18.0	25.1	20.7	22.5	22.0	18.2	20.2	16.9	13.1	14.9
20	20.6	15.5	17.9	24.9	20.4	22.5	22.9	19.3	20.7	17.8	13.4	15.4
21	21.2	17.5	19.3	25.2	20.2	22.7	22.0	18.3	20.1	17.5	14.0	15.7
22	20.1	17.4	18.9	24.4	19.8	22.2	21.5	17.8	19.7	16.8	12.9	14.9
23	22.0	16.9	19.3	25.0	20.8	22.7	21.6	17.8	19.6	17.3	12.9	15.0
24	22.8	17.9	20.2	24.9	21.1	22.9	21.9	17.5	19.6	17.8	13.4	15.5
25	23.2	18.0	20.5	25.6	21.5	23.1	21.9	17.6	19.7	17.2	15.2	16.2
26	23.9	19.0	21.3	24.5	20.5	22.4	21.8	16.9	19.6	17.3	13.7	15.4
27	24.8	20.7	22.6	24.1	20.1	22.1	20.9	17.6	19.5	16.1	13.5	14.7
28	24.7	19.9	22.2	23.8	19.5	21.7	21.9	17.9	19.9	17.0	14.4	15.5
29	24.6	19.7	22.1	24.0	18.7	21.2	20.7	18.2	19.6	15.9	14.4	15.1
30	25.1	19.6	22.3	24.6	19.0	21.7	---	---	---	15.0	13.7	14.3
31	---	---	---	23.7	19.9	21.9	---	---	---	---	---	---
MONTH	25.1	5.8	15.7	26.8	18.7	22.8	---	---	---	---	---	---

LOCATION.--Lat 40°37'26", long 111°45'05", in NW¹/₄SE¹/₄SW¹/₄ sec. 20, T. 2 S., R. 2 E., Salt Lake County, Hydrologic Unit 16020204 on left bank at Stairs plant, 14 mi southeast of Salt Lake City.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78 ft³/s, Jul 1, 1954; no flow many days, most years.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	16	14	11	4.8	7.0	24	52	52	52	23	27
2	12	16	12	11	5.3	5.6	29	52	52	51	28	27
3	11	14	16	11	3.6	5.6	32	52	53	49	34	27
4	12	14	15	11	3.0	6.8	40	52	53	47	34	26
5	12	14	15	11	5.8	7.3	47	53	52	45	33	26
6	12	14	14	11	7.5	7.3	53	53	52	44	33	29
7	12	18	14	12	0.00	7.9	53	53	53	42	32	29
8	11	17	13	12	0.00	7.9	53	53	53	27	32	30
9	14	16	13	12	0.00	7.9	52	53	53	14	31	28
10	13	15	13	12	0.00	8.5	52	53	52	35	32	26
11	13	15	12	12	0.00	8.5	53	53	52	32	31	25
12	13	14	12	11	0.00	9.1	53	52	52	31	26	22
13	13	14	11	11	0.00	11	53	53	52	30	30	19
14	13	14	12	11	0.00	11	53	53	52	30	30	18
15	12	14	12	11	0.00	9.5	53	52	52	30	29	17
16	12	13	11	9.9	0.00	10	53	53	52	30	30	19
17	12	13	12	8.2	0.00	11	52	53	52	30	30	24
18	12	13	12	8.5	0.00	9.8	52	53	50	30	29	35
19	12	13	12	8.2	0.00	9.0	52	53	43	28	29	30
20	12	12	12	9.9	0.00	10	48	53	52	28	29	26
21	12	13	12	9.6	0.00	12	43	53	53	28	30	24
22	12	16	12	9.5	0.00	13	43	52	52	24	30	22
23	12	6.3	10	9.0	0.00	16	47	46	52	26	29	21
24	11	15	8.6	8.7	5.7	15	51	52	52	25	29	20
25	11	16	7.8	9.5	8.5	16	51	52	52	26	29	19
26	11	16	7.0	9.3	14	14	52	52	52	25	29	14
27	12	15	11	9.3	10	15	50	52	52	25	29	17
28	12	12	11	9.6	7.0	17	50	52	53	24	28	17
29	12	15	11	6.2	---	18	52	52	53	24	28	17
30	12	15	11	3.8	---	19	52	52	52	23	28	17
31	18	---	11	4.4	---	21	---	52	---	23	28	---
TOTAL	380	428.3	369.4	303.6	75.20	346.7	1448	1621	1557	978	922	698
MEAN	12.26	14.28	11.92	9.794	2.686	11.18	48.27	52.29	51.90	31.55	29.74	23.27
MAX	18	18	16	12	14	21	53	53	53	52	34	35
MIN	11	6.3	7.0	3.8	0.00	5.6	24	46	43	14	23	14
AC-FT	754	850	733	602	149	688	2870	3220	3090	1940	1830	1380

CAL	YR	2001	TOTAL	8389.7	MEAN	22.99	MAX	55	MIN	6.3	AC-FT	16640
WTR	YR	2002	TOTAL	9127.20	MEAN	25.01	MAX	53	MIN	0.00	AC-FT	18100

10170500 SURPLUS CANAL AT SALT LAKE CITY, UT

LOCATION.--Lat 40°43'37", long 111°55'33", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 14, T. 1 S., R. 1 W., Salt Lake County, Hydrologic Unit 16020204, near right bank on upstream side of diversion dam at head of canal, and 250 ft downstream from highway bridge over Jordan River on 2100 South Street.

PERIOD OF RECORD.--December 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,223.93 ft above NGVD of 1929. Prior to October 22, 1952, at site 350 ft downstream; October 22, 1952 to September 30, 1966, at site 400 ft downstream at different datum; September 30, 1966 to October 1, 1989 at datum 10.0 ft lower.

REMARKS.--Records fair. Flow regulated by diversion structure at station. Canal was built to bypass floodwater of Jordan River around Salt Lake City residential and industrial area (see station 10170490 for records of combined flow of Jordan River and Surplus Canal). Several diversions for irrigation and waterfowl ponds below station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,410 ft³/s, Jun 1, 1984, gage height, 8.91 ft, datum then in use. No flow Jan 21 to Feb 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,370 ft³/s, Nov 22, gage height, 13.13 ft; minimum daily discharge, 85 ft³/s, Nov 14, 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	125	198	153	105	213	196	284	785	174	164	158
2	186	103	271	152	108	190	185	262	935	162	184	179
3	164	94	e296	143	106	146	183	265	827	149	178	183
4	166	95	e320	145	103	126	180	273	750	144	153	175
5	176	96	e297	143	108	115	176	275	781	e153	135	184
6	185	95	283	142	113	115	197	310	813	181	138	198
7	188	182	467	151	112	119	206	351	942	160	140	318
8	197	103	272	151	125	164	207	367	919	194	139	427
9	328	89	248	150	121	149	191	313	806	170	156	276
10	213	89	245	149	116	141	186	286	601	196	170	191
11	232	94	206	146	122	137	189	380	375	192	168	187
12	228	96	164	149	112	129	180	346	269	193	172	194
13	205	92	154	149	112	322	197	291	280	196	163	171
14	188	85	153	143	109	254	195	282	315	197	160	159
15	251	85	167	131	108	183	216	351	350	205	169	145
16	254	86	154	132	167	151	428	360	339	175	155	235
17	185	89	145	129	201	208	419	374	380	174	147	336
18	215	99	147	129	206	186	380	393	337	210	157	498
19	141	95	150	130	205	161	368	507	304	275	161	233
20	134	98	150	127	259	151	293	590	307	244	207	190
21	159	103	152	124	259	147	253	754	280	220	224	178
22	153	575	153	131	219	144	220	649	285	213	196	171
23	127	636	143	121	217	143	190	461	269	199	195	173
24	97	271	142	118	213	423	172	379	274	166	182	158
25	96	303	127	120	215	342	176	294	256	164	180	152
26	96	355	135	128	211	231	198	226	238	190	193	157
27	100	280	138	127	211	186	378	206	290	170	178	169
28	108	230	137	137	212	162	330	227	223	169	175	186
29	106	197	141	124	---	157	251	304	158	167	181	193
30	105	209	147	107	---	153	259	443	155	164	177	e227
31	328	---	150	106	---	147	---	672	---	169	161	---
TOTAL	5495	5149	6052	4187	4475	5595	7199	11475	13843	5735	5258	6401
MEAN	177.3	171.6	195.2	135.1	159.8	180.5	240.0	370.2	461.4	185.0	169.6	213.4
MAX	328	636	467	153	259	423	428	754	942	275	224	498
MIN	96	85	127	106	103	115	172	206	155	144	135	145
AC-FT	10900	10210	12000	8300	8880	11100	14280	22760	27460	11380	10430	12700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2002, BY WATER YEAR (WY)

	MEAN	276.2	287.3	303.4	331.4	409.4	447.5	508.3	624.2	678.7	369.5	274.7	280.8
MAX	1473	1616	1740	1806	1804	1882	2749	3042	3299	2158	1651	1364	
(WY)	1984	1984	1984	1984	1984	1984	1986	1986	1984	1983	1983	1986	
MIN	66.1	68.8	49.7	30.8	0.000	55.9	44.8	74.7	44.4	69.6	50.6	77.7	
(WY)	1962	1944	1944	1956	1963	1945	1961	1961	1961	1961	1961	1961	

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1944 - 2002
ANNUAL TOTAL	79388	80864	
ANNUAL MEAN	217.5	221.5	398.8
HIGHEST ANNUAL MEAN			1968
LOWEST ANNUAL MEAN			69.6
HIGHEST DAILY MEAN	916	May 17	4250
LOWEST DAILY MEAN	85	Nov 14	0.00
ANNUAL SEVEN-DAY MINIMUM	90	Nov 10	0.00
ANNUAL RUNOFF (AC-FT)	157500	160400	288900
10 PERCENT EXCEEDS	348	357	1050
50 PERCENT EXCEEDS	188	181	203
90 PERCENT EXCEEDS	103	112	83

e Estimated

JORDAN RIVER BASIN

10171000 JORDAN RIVER AT SALT LAKE CITY, UT

LOCATION.--Lat 40°44'01", long 111°55'21", in SW¹/₄SE¹/₄NW¹/₄ sec. 14, T. 1 S., R. 1 W., Salt Lake County, Hydrologic Unit 16020204, on right bank at 1700 South Street and about 1000 West, Salt Lake City, 4,000 ft downstream from diversion structure at head of Surplus Canal, and 1.7 mi downstream from Mill Creek.

DRAINAGE AREA.--3,438 mi² includes 255 mi² closed basin in Cedar Valley.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1942 to current year.

REVISED RECORDS.--WDR UT-88-1: 1987 (combined flow).

GAGE.--Water-stage recorder. Datum of gage is 4,220.08 ft above NGVD of 1929. Prior to July 1, 1976 at site 3,200 ft upstream at same datum.

REMARKS.--Records good. Flow completely regulated since reconstruction in May 1952 of Surplus Canal diversion dam 4,000 ft upstream. Flow affected by regulation at Utah Lake, Deer Creek Reservoir, other storage and regulation, and importation of water from other basins. Many diversions above station for irrigation, industrial, and municipal water supplies. For records of Surplus Canal see station 10170500. For records of combined flow, see following page.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 449 ft³/s, Aug 20, 1986, gage height, 4.41 ft, maximum gage height, 5.75 ft Jun 26, 1952; no flow, May 10, 24, 1952, May 21, 22, 1962, Sep 21, 1963, May 14 to Jun 1, 1964, and Sep 6, 7, 1965 entire flow diverted to Surplus Canal. Maximum daily combined discharge (Jordan River and Surplus Canal), 4,510 ft³/s, Jun 1, 1984; minimum daily, 89 ft³/s, Jun 23, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 166 ft³/s, Oct 18, gage height, 2.30 ft; minimum daily discharge, 12 ft³/s, Feb 23-28, Mar 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	97	94	108	102	12	110	107	114	109	112	118
2	116	102	99	107	101	27	109	107	114	109	112	119
3	120	108	82	107	101	65	109	107	114	112	112	119
4	122	107	68	107	101	83	109	108	114	114	112	118
5	123	107	72	106	97	94	109	107	114	117	113	119
6	124	106	92	107	93	94	111	109	114	119	113	120
7	124	110	101	108	93	95	112	111	114	116	113	116
8	125	107	94	107	94	98	111	112	114	119	113	109
9	127	105	93	107	93	98	110	111	114	116	113	110
10	146	104	92	107	93	97	111	109	114	118	113	124
11	142	103	100	108	94	97	109	109	114	117	114	118
12	141	104	103	107	94	96	109	104	114	116	114	119
13	139	103	103	107	95	98	110	103	113	114	114	118
14	137	102	103	107	98	86	111	103	112	109	114	118
15	129	102	103	104	98	89	115	105	112	109	114	117
16	123	100	102	102	49	100	94	105	112	111	115	126
17	121	100	104	102	15	108	71	105	112	110	115	130
18	147	101	107	102	15	106	44	105	111	112	116	127
19	152	99	107	102	15	105	71	87	111	114	116	123
20	131	100	107	102	14	105	92	94	111	110	117	134
21	121	100	107	102	14	104	89	114	111	109	117	138
22	119	75	107	103	13	103	87	114	112	110	117	137
23	118	77	107	102	12	104	96	114	112	110	118	137
24	115	88	107	102	12	86	104	114	111	111	118	136
25	115	85	106	102	12	83	104	114	111	111	118	135
26	115	85	106	102	12	93	106	115	111	111	119	135
27	114	81	107	102	12	101	102	115	112	111	118	134
28	115	83	107	103	12	99	103	114	111	111	118	131
29	114	94	107	102	---	99	106	114	111	111	118	127
30	114	95	107	101	---	101	106	114	110	112	118	125
31	118	---	107	101	---	107	---	114	---	112	118	---
TOTAL	3879	2930	3101	3236	1654	2833	3030	3364	3374	3490	3572	3737
MEAN	125.1	97.67	100.0	104.4	59.07	91.39	101.0	108.5	112.5	112.6	115.2	124.6
MAX	152	110	107	108	102	108	115	115	114	119	119	138
MIN	112	75	68	101	12	12	44	87	110	109	112	109
AC-FT	7690	5810	6150	6420	3280	5620	6010	6670	6690	6920	7090	7410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2002, BY WATER YEAR (WY)

MEAN	157.4	145.4	144.1	145.3	146.6	136.4	120.9	112.9	142.3	154.7	151.4	159.2
MAX	253	223	230	292	274	258	251	210	258	253	242	245
(WY)	1985	1986	1986	1985	1985	1952	1952	1989	1991	1984	1983	1985
MIN	78.7	64.9	75.2	54.2	27.4	58.3	31.3	25.5	56.0	68.3	68.3	63.5
(WY)	1964	1964	1993	1993	2000	1962	1986	1964	1995	1961	1963	1963

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1944 - 2002

ANNUAL TOTAL	43039	38200	
ANNUAL MEAN	117.9	104.7	143.0
HIGHEST ANNUAL MEAN			223
LOWEST ANNUAL MEAN			92.3
HIGHEST DAILY MEAN	152	Oct 19	337
LOWEST DAILY MEAN	45	Jun 13	0.00
ANNUAL SEVEN-DAY MINIMUM	81	Feb 16	0.00
ANNUAL RUNOFF (AC-FT)	85370	75770	103600
10 PERCENT EXCEEDS	139	119	194
50 PERCENT EXCEEDS	118	109	143
90 PERCENT EXCEEDS	95	89	93

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued
(National Water-Quality Assessment Program Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1974 to September 1994, October 1998 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1978, October 1980 to September 1981, October 1998 to September 30, 2002 (discontinued).

WATER TEMPERATURE: April 1975 to September 1978, October 1980 to September 1981, October 1998 to September 30, 2002 (discontinued).

INSTRUMENTATION.--Temperature/conductivity data logger until removed September 30, 2002.

REMARKS.--Specific conductivity and temperature records good except for estimated values, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 3,240 microsiemens, Mar 18, 2002; minimum, 536 microsiemens, Jun 25, 1978.

WATER TEMPERATURE: Maximum, 28.0°C, Aug 29, 30, 1975; minimum, 0.5°C, Jan 2, 3, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 3,240 microsiemens, Mar 18; minimum, 675 microsiemens, Jun 1.

WATER TEMPERATURE: Maximum, 25.1°C, Jul 13, 15; minimum, 5.4°C, Jan 30.

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

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CAC03 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HC03 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS S04) (00945)
OCT 17...	1120	121	656	90	7.8	7.7	1800	22.0	14.9	256	313	269	281
NOV 13...	1000	117	652	76	6.8	7.8	1740	9.0	13.5	259	316	254	270
DEC 18...	1120	105	661	77	8.2	7.8	2110	-2.0	6.7	274	334	350	269
JAN 15...	0900	100	653	84	8.7	7.7	1880	3.0	7.3	269	328	285	264
MAR 28...	1050	98	644	76	6.9	7.7	1840	10.0	11.8	--	--	277	269
APR 23...	1030	87	650	77	6.9	7.5	1690	19.0	13.3	232	284	251	232
MAY 22...	1310	130	655	105	10.0	7.6	917	9.0	10.9	134	164	118	118
JUN 27...	1040	128	649	75	5.7	7.7	1680	35.0	20.8	225	275	254	245
JUL 23...	1120	94	652	66	5.0	7.7	1770	34.0	21.5	224	274	271	262
SEP 10...	1020	113	659	75	6.2	8.0	1840	21.0	17.6	223	272	277	265

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS P04) (00660)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
OCT 17...	.92	1.8	2.42	2.66	.88	4.5	1.19	10.7	.799	.243	2.70	.88	1.07
NOV 13...	1.32	2.0	3.42	3.65	.72	5.7	1.70	15.1	.766	.233	3.44	1.12	1.27
DEC 18...	1.65	2.8	3.55	3.70	1.1	6.5	2.12	15.7	.516	.157	3.07	1.00	1.23
JAN 15...	1.74	2.7	3.39	3.48	1.0	6.2	2.24	15.0	.309	.094	3.72	1.21	1.31
MAR 28...	.98	1.9	4.89	5.01	.95	6.9	1.26	21.6	.404	.123	3.60	1.17	1.37
APR 23...	.70	1.5	3.85	4.03	.81	5.5	.90	17.1	.588	.179	3.57	1.17	1.40
MAY 22...	.14	.89	3.18	3.21	.76	4.1	.18	14.1	.105	.032	1.56	.51	.63
JUN 27...	.37	1.2	4.42	4.58	.80	5.7	.48	19.6	.513	.156	2.90	.95	.99
JUL 23...	.47	1.5	3.87	4.08	1.1	5.6	.61	17.1	.684	.208	2.77	.90	1.03
SEP 10...	.40	1.6	2.81	2.99	1.2	4.5	.51	12.5	.575	.175	2.34	.76	.95

JORDAN RIVER BASIN

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued
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WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

		SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)													SEDI-MENT, SUS-PENDED (MG/L) (80154)												
Date																											
OCT 17...		9.1													28												
NOV 13...		6.6													21												
DEC 18...		7.1													25												
JAN 15...		4.9													18												
MAR 28...		4.5													17												
APR 23...		5.0													21												
MAY 22...		9.8													28												
JUN 27...		6.6													19												
JUL 23...		7.4													29												
SEP 10...		12.8													42												
Date	Time	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)														
NOV 13...	1000	<.002	<.004	<.002	<.005	.019	<.010	<.002	E.006	<.020	<.005	<.018	<.003														
JAN 15...	0900	<.006	<.006	<.004	<.005	.020	<.010	<.002	<.041	<.020	<.005	<.018	<.003														
MAR 28...	1050	<.006	<.006	<.004	<.005	.018	<.010	<.002	E.008	<.020	<.005	<.018	<.003														
APR 23...	1030	<.006	<.006	<.004	<.005	.035	<.010	<.002	<.041	<.050	<.005	<.018	.003														
MAY 22...	1310	<.006	<.006	<.004	<.005	.015	<.010	<.002	E.020	E.037	<.005	<.018	E.002														
JUN 27...	1040	<.006	<.006	<.004	<.005	.018	<.010	<.002	E.009	<.020	<.005	<.018	<.003														
JUL 23...	1120	<.006	<.006	<.004	<.005	.018	<.010	<.002	E.033	<.020	<.005	<.018	<.003														
SEP 10...	1020	<.006	<.006	<.004	<.005	.021	<.010	<.002	E.012	<.020	<.005	<.018	<.003														
Date	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)														
NOV 13...	E.011	102	<.005	<.005	<.02	<.002	<.009	<.005	<.003	91.4	<.004	<.035	<.027														
JAN 15...	E.010	108	<.005	<.005	<.02	<.002	<.009	<.005	<.003	91.0	<.004	<.035	<.027														
MAR 28...	E.007	103	.017	<.005	<.02	<.002	<.009	<.005	<.003	86.2	<.004	<.035	<.027														
APR 23...	<.006	108	.016	<.005	<.02	<.002	<.009	<.005	<.003	95.5	<.004	<.035	<.027														
MAY 22...	E.006	115	.019	<.005	<.02	<.002	<.009	<.005	<.003	100	<.004	<.035	<.027														
JUN 27...	E.011	113	.022	<.005	<.02	<.002	<.009	<.005	<.003	101	<.004	<.035	<.027														
JUL 23...	E.011	104	.027	<.005	<.02	<.002	<.009	<.005	<.003	100	<.004	<.035	<.027														
SEP 10...	E.009	99.1	.025	<.005	<.02	<.002	<.009	<.005	<.003	89.0	<.004	<.035	<.027														

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued
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WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P, P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)
NOV 13...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	.015
JAN 15...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	.021
MAR 28...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	.062
APR 23...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	.072
MAY 22...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	.042
JUN 27...	E.008	<.006	E.004	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	.046
JUL 23...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	.049
SEP 10...	<.050	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	.037
Date	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)		
NOV 13...	<.004	<.010	<.011	<.023	<.011	E.011	<.034	<.017	<.005	<.002	<.009		
JAN 15...	<.004	<.010	<.011	<.023	<.005	.049	<.034	<.017	<.005	<.002	<.009		
MAR 28...	<.004	<.010	<.011	<.023	<.005	.020	<.034	<.017	<.005	<.002	<.009		
APR 23...	<.004	<.010	<.020	<.023	<.007	E.017	<.034	<.017	<.005	<.002	<.009		
MAY 22...	<.004	<.010	<.011	<.023	.029	<.016	<.034	<.017	<.005	<.002	<.009		
JUN 27...	<.004	<.010	<.011	<.023	.008	.017	<.034	<.017	<.005	<.002	<.009		
JUL 23...	<.004	<.010	<.011	<.023	.011	<.016	<.034	<.017	<.005	<.002	<.009		
SEP 10...	<.004	<.010	<.011	<.023	.007	E.012	<.034	<.017	<.005	<.002	<.009		

E Estimated value.

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

JORDAN RIVER BASIN

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued
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SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	1720	1620	1680	1640	1400	1530	---	---	---	---	---	---
2	1770	1660	1720	1690	1560	1630	---	---	---	---	---	---
3	1780	1660	1720	1710	1560	1650	---	---	---	---	---	---
4	1750	1650	1700	1710	1540	1650	---	---	---	---	---	---
5	1760	1650	1710	1710	1540	1640	---	---	---	---	---	---
6	1750	1650	1720	1730	1580	1660	---	---	---	---	---	---
7	1760	1650	1710	1710	1290	1520	---	---	---	---	---	---
8	1760	1660	1720	1670	1410	1530	---	---	---	---	---	---
9	1790	1310	1610	1730	1600	1670	---	---	---	---	---	---
10	1720	1560	1670	1760	1630	1700	---	---	---	---	---	---
11	1760	1650	1710	1760	1610	1710	---	---	---	---	---	---
12	1730	1640	1690	1760	1640	1720	---	---	---	---	---	---
13	1770	1670	1730	---	---	---	---	---	---	---	---	---
14	1760	1650	1730	---	---	---	---	---	---	---	---	---
15	1820	1670	1750	---	---	---	---	---	---	---	---	---
16	1820	1730	1780	---	---	---	---	---	---	1980	1790	1890
17	1820	1700	1760	---	---	---	---	---	---	1940	1840	1880
18	1810	1700	1750	---	---	---	---	---	---	1990	1720	1820
19	1790	1680	1740	---	---	---	---	---	---	2370	1960	2140
20	1770	1640	1720	---	---	---	---	---	---	2020	1790	1930
21	1760	1610	1700	---	---	---	---	---	---	1900	1740	1840
22	1760	1620	1700	---	---	---	---	---	---	2770	1760	2000
23	1780	1650	1720	---	---	---	---	---	---	2770	1980	2380
24	1780	1640	1720	---	---	---	---	---	---	2010	1780	1910
25	1800	1680	1740	---	---	---	---	---	---	1910	1750	1840
26	1790	1650	1730	---	---	---	---	---	---	1840	1670	1790
27	1780	1640	1730	---	---	---	---	---	---	1850	1680	1780
28	1780	1620	1730	---	---	---	---	---	---	2040	1690	1820
29	1780	1610	1720	---	---	---	---	---	---	2240	1960	2090
30	1800	1650	1730	---	---	---	---	---	---	2020	1870	1960
31	1730	968	1310	---	---	---	---	---	---	1910	1710	1810
MONTH	1820	968	1700	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1850	1690	1780	---	---	---	1720	1620	1680	1280	1170	1240
2	1820	1650	1760	---	---	---	1720	1620	1680	1260	1140	1200
3	1790	1610	1730	1810	1620	1730	1700	1600	1660	1290	1160	1230
4	1770	1600	1700	1800	1620	1710	1680	1580	1640	1370	1260	1290
5	1760	1620	1700	1810	1640	1720	1680	1580	1630	1370	1200	1280
6	1770	1620	1700	1790	1610	1690	1610	1490	1560	1280	1120	1200
7	1760	1630	1700	1800	1660	1730	1520	1410	1480	1230	994	1130
8	2270	1640	1800	2530	1670	1910	1510	1410	1470	1190	1040	1110
9	2260	1800	2070	2810	2070	2460	1540	1440	1490	1190	1100	1130
10	1850	1630	1760	2130	1730	1960	1560	1420	1510	1280	1130	1200
11	1800	1620	1730	1880	1660	1800	1530	1450	1500	1290	1140	1220
12	1790	1650	1730	1880	1690	1800	1550	1460	1510	1320	1180	1220
13	1790	1630	1720	1870	1350	1640	1550	1450	1510	1400	1260	1310
14	1770	1630	1710	2650	1500	1950	1500	1390	1440	1420	1280	1350
15	1790	1630	1710	2580	1980	2330	1500	1330	1410	1380	1130	1220
16	---	---	---	2010	1770	1920	1330	1020	1160	1190	1080	1140
17	---	---	---	3220	1780	2130	1270	1210	1240	1210	973	1090
18	---	---	---	3240	1990	2620	1400	1240	1340	1120	959	1040
19	---	---	---	2120	1840	1980	1430	1210	1350	1110	886	970
20	---	---	---	1960	1770	1870	1520	1300	1450	1050	841	912
21	---	---	---	1920	1700	1840	1580	1360	1470	956	818	879
22	---	---	---	1900	1670	1830	1660	1530	1580	1020	845	913
23	---	---	---	1890	1670	1830	1690	1530	1610	1110	917	1010
24	---	---	---	1730	1440	1760	1600	1480	1550	1250	1100	1150
25	---	---	---	1660	1480	1570	1560	1460	1510	1340	1220	1270
26	---	---	---	1790	1600	1740	1540	1440	1500	1370	1270	1310
27	---	---	---	1850	1760	1810	1490	1020	1300	1380	1290	1340
28	---	---	---	1850	1670	1770	1270	1060	1170	1370	1200	1270
29	---	---	---	1770	1680	1730	1360	1270	1300	1270	1040	1120
30	---	---	---	1740	1620	1690	1320	1200	1280	1120	880	945
31	---	---	---	1710	1580	1660	---	---	---	928	685	766
MONTH	---	---	---	---	---	---	1720	1020	1470	1420	685	1140

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued
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SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	802	675	726	1650	1550	1600	1760	1660	1700	1900	1800	1860
2	841	679	737	1670	1570	1630	1770	1680	1730	1900	1770	1850
3	928	775	830	1680	1580	1630	1790	1660	1740	1900	1790	1840
4	977	844	898	1680	1570	1640	1770	1640	1720	1950	1810	1880
5	1030	906	954	1670	1580	1630	1770	1660	1720	1930	1810	1880
6	1020	864	942	1680	1590	1650	1770	1680	1730	1940	1830	1890
7	992	822	891	1680	1570	1640	1770	1670	1720	1860	1400	1640
8	943	768	846	1730	1610	1660	1760	1650	1710	1720	1320	1510
9	981	837	887	1760	1650	1710	1760	1660	1720	1740	1440	1600
10	1180	951	1020	1740	1630	1700	1800	1680	1740	e1830	e1720	e1770
11	1280	1170	1210	1740	1630	1690	1770	1640	1720	e1830	e1730	e1770
12	1320	1250	1290	1700	1600	1660	1770	1670	1720	e1820	e1730	e1780
13	1320	1200	1280	1720	1630	1680	1800	1700	1750	e1830	e1740	e1790
14	1300	1200	1260	1720	1600	1680	1820	1730	1770	e1830	e1720	e1790
15	1340	1230	1280	1760	1600	1670	1810	1740	1770	e1800	e1680	e1760
16	1340	1160	1260	1760	1650	1730	1810	1740	1770	e1810	e1260	e1710
17	1340	1190	1260	1770	1670	1730	1810	1730	1770	e1540	e1200	e1410
18	1370	1250	1320	1770	1680	1740	1820	1710	1770	e1520	e1090	e1280
19	1400	1300	1350	1750	1690	1710	1810	1690	1760	e1660	e1440	e1580
20	1430	1320	1380	1760	1660	1720	1830	1650	1790	e1720	e1630	e1680
21	1470	1370	1410	1730	1640	1700	1770	1520	1670	e1770	e1680	e1730
22	1510	1410	1450	1820	1620	1690	1860	1740	1800	e1760	e1660	e1730
23	1520	1440	1500	1820	1630	1720	1880	1780	1830	e1760	e1660	e1720
24	1580	1460	1520	1710	1610	1670	1880	1760	1830	e1790	e1690	e1740
25	1580	1490	1550	1720	1630	1690	1840	1700	1790	e1780	e1670	e1740
26	1620	1530	1580	1740	1650	1710	1860	1750	1810	e1790	e1690	e1740
27	1780	1500	1590	1740	1650	1700	1870	1780	1820	e1720	e1620	e1680
28	1620	1540	1580	1710	1600	1670	1830	1740	1790	e1690	e1580	e1650
29	1620	1530	1590	1720	1620	1680	1830	1730	1790	e1660	e1550	e1610
30	1630	1520	1580	1730	1630	1690	1890	1780	1830	e1630	e1560	e1600
31	---	---	---	1750	1660	1700	1880	1770	1840	---	---	---
MONTH	1780	675	1230	1820	1550	1680	1890	1520	1760	1950	1090	1710

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	20.7	17.9	19.5	16.0	13.7	14.7	---	---	---	---	---	---
2	20.6	18.1	19.5	16.0	13.4	14.7	---	---	---	---	---	---
3	19.7	17.1	18.6	15.8	13.2	14.5	---	---	---	---	---	---
4	19.1	16.5	18.1	15.6	13.0	14.3	---	---	---	---	---	---
5	18.5	15.5	17.3	16.0	14.3	15.1	---	---	---	---	---	---
6	18.1	15.7	17.1	16.8	14.7	15.8	---	---	---	---	---	---
7	18.8	16.1	17.5	16.2	14.3	15.0	---	---	---	---	---	---
8	18.1	16.2	16.9	15.1	12.8	14.0	---	---	---	---	---	---
9	16.7	14.7	15.5	14.7	12.1	13.5	---	---	---	---	---	---
10	15.4	13.1	14.6	15.1	12.7	13.8	---	---	---	---	---	---
11	15.2	13.0	13.7	15.3	12.9	14.0	---	---	---	---	---	---
12	14.3	11.7	13.1	15.8	13.6	14.7	---	---	---	---	---	---
13	15.6	13.1	14.3	---	---	---	---	---	---	---	---	---
14	16.2	13.2	14.8	---	---	---	---	---	---	---	---	---
15	16.0	13.8	15.2	---	---	---	---	---	---	---	---	---
16	15.7	13.4	14.9	---	---	---	---	---	---	9.1	7.0	8.1
17	16.8	14.7	15.8	---	---	---	---	---	---	8.6	6.6	7.8
18	16.4	14.4	15.3	---	---	---	---	---	---	8.1	6.6	7.5
19	15.4	12.6	14.3	---	---	---	---	---	---	8.2	5.7	7.0
20	16.7	13.8	15.2	---	---	---	---	---	---	9.0	7.2	8.0
21	16.4	14.2	15.4	---	---	---	---	---	---	9.4	7.4	8.3
22	16.7	14.6	15.7	---	---	---	---	---	---	8.9	7.2	8.1
23	16.2	14.1	15.2	---	---	---	---	---	---	8.7	6.1	7.6
24	14.7	12.0	13.5	---	---	---	---	---	---	8.9	6.3	7.7
25	14.6	11.9	13.5	---	---	---	---	---	---	8.9	6.7	7.9
26	14.8	12.3	13.8	---	---	---	---	---	---	9.1	7.6	8.3
27	15.7	12.9	14.3	---	---	---	---	---	---	8.6	7.4	8.1
28	16.9	14.5	15.6	---	---	---	---	---	---	8.6	7.5	8.1
29	17.1	15.0	16.1	---	---	---	---	---	---	8.9	6.6	7.7
30	16.4	15.0	15.7	---	---	---	---	---	---	8.1	5.4	6.9
31	15.2	12.6	14.0	---	---	---	---	---	---	8.2	6.0	7.1
MONTH	20.7	11.7	15.6	---	---	---	---	---	---	---	---	---

e Estimated

JORDAN RIVER BASIN

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued
(National Water-Quality Assessment Program Station)

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	8.5	5.8	7.2	---	---	---	15.5	12.2	14.1	15.5	12.6	14.1
2	8.9	6.1	7.4	---	---	---	15.8	12.9	14.5	15.6	11.7	13.8
3	9.1	6.3	7.6	10.0	6.7	8.3	15.5	12.4	14.2	15.0	12.7	13.9
4	8.7	6.4	7.7	11.1	7.5	9.4	15.9	12.5	14.4	16.6	12.6	14.6
5	9.3	6.9	8.0	11.5	8.5	10.3	16.3	13.4	15.0	16.3	14.0	15.3
6	9.0	6.4	7.8	11.5	10.0	10.9	15.6	13.8	14.5	16.8	13.1	15.1
7	9.1	6.6	8.0	11.2	9.4	10.4	15.5	12.6	14.0	16.5	13.5	14.9
8	9.0	7.4	8.4	10.7	6.7	8.1	14.9	12.6	14.0	14.1	10.0	12.1
9	9.8	7.6	8.6	10.7	6.1	8.3	14.5	12.6	13.6	13.6	9.9	12.0
10	9.7	6.9	8.3	10.8	8.9	9.8	15.3	13.0	14.1	13.2	11.5	12.3
11	9.9	7.3	8.7	12.5	9.4	10.9	15.8	12.4	14.2	13.4	11.2	12.3
12	9.9	7.6	8.8	11.8	10.2	10.9	16.3	13.6	15.1	15.8	11.4	13.5
13	9.4	6.9	8.4	11.1	7.8	9.5	16.7	13.6	15.3	17.4	13.2	15.4
14	10.3	8.1	9.1	9.8	6.8	8.3	16.3	14.1	15.1	18.0	15.0	16.7
15	10.1	7.3	8.8	11.6	7.7	9.7	15.4	12.0	14.1	17.4	13.9	15.4
16	---	---	---	11.0	9.0	10.1	12.2	9.5	10.9	16.6	13.4	15.1
17	---	---	---	10.4	7.4	8.9	11.4	8.6	9.7	16.2	12.7	14.8
18	---	---	---	11.4	7.4	9.4	11.0	8.7	9.7	16.5	13.2	15.1
19	---	---	---	12.0	8.1	10.2	11.6	9.2	10.5	16.2	12.5	14.7
20	---	---	---	13.0	9.1	11.2	11.6	10.1	10.8	15.6	12.6	14.3
21	---	---	---	13.9	10.6	12.4	13.6	9.8	11.4	14.9	10.9	12.7
22	---	---	---	14.5	11.4	13.2	15.9	11.7	13.8	11.6	9.4	10.6
23	---	---	---	13.9	11.8	12.5	16.5	13.2	15.0	13.3	9.6	11.5
24	---	---	---	12.1	9.5	10.3	15.6	12.5	14.3	15.2	11.0	13.2
25	---	---	---	12.4	9.5	10.7	15.6	12.7	14.3	17.0	12.8	15.0
26	---	---	---	13.2	9.8	11.7	17.3	14.1	15.6	17.9	14.5	16.3
27	---	---	---	14.0	11.2	12.8	16.2	11.9	13.5	19.0	15.2	17.1
28	---	---	---	14.7	11.5	13.2	15.1	11.5	13.1	19.1	15.8	17.6
29	---	---	---	14.8	11.8	13.4	16.7	12.6	14.7	18.5	15.3	17.1
30	---	---	---	15.0	11.7	13.5	16.2	13.5	15.1	17.7	14.1	16.2
31	---	---	---	15.6	12.0	13.9	---	---	---	17.4	12.6	15.1
MONTH	---	---	---	---	---	---	17.3	8.6	13.6	19.1	9.4	14.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	16.4	12.8	13.9	23.8	21.0	22.5	23.5	21.1	22.4	22.1	18.8	20.5
2	15.2	11.8	13.5	24.0	21.6	22.9	22.9	21.0	21.7	22.4	19.2	20.9
3	16.1	12.6	14.4	23.6	21.9	22.7	23.2	20.0	21.5	21.6	19.4	20.6
4	16.5	12.9	14.9	23.5	20.8	22.2	23.2	20.3	21.8	22.2	19.3	20.7
5	17.4	13.4	15.5	23.8	21.4	22.7	22.6	20.0	21.5	22.0	19.9	21.1
6	18.1	14.2	16.3	24.2	21.8	23.1	22.0	20.0	21.1	21.0	19.2	20.0
7	17.9	14.4	16.3	24.2	21.8	23.0	22.8	20.0	21.4	19.9	18.6	19.0
8	17.4	13.8	15.4	24.4	22.2	23.4	22.5	19.7	21.1	19.0	17.9	18.4
9	15.5	11.6	12.6	24.4	22.0	23.3	22.1	18.9	20.6	20.2	17.4	18.8
10	15.0	10.3	12.4	24.5	21.9	23.3	22.3	18.7	20.6	20.5	17.5	19.2
11	16.7	13.2	15.0	24.9	22.5	23.8	23.0	19.5	21.3	20.2	18.5	19.1
12	18.2	14.7	16.5	24.9	22.3	23.7	23.0	20.2	21.7	20.1	17.9	19.0
13	19.1	15.8	17.5	25.1	22.4	23.9	22.9	19.7	21.5	21.3	18.3	19.9
14	19.7	16.6	18.2	25.0	22.5	23.9	23.3	20.0	21.7	21.4	18.3	20.0
15	20.0	17.1	18.7	25.1	23.2	24.3	23.5	20.0	21.9	21.1	18.5	19.9
16	20.3	17.4	19.0	24.6	22.8	23.8	23.6	20.5	22.2	20.3	18.0	19.1
17	20.2	17.9	19.2	24.3	22.3	23.4	23.4	20.3	22.0	18.0	17.0	17.6
18	20.6	18.0	19.4	23.8	22.1	22.8	23.5	20.7	22.1	17.8	15.9	17.0
19	20.3	18.2	19.4	23.6	21.3	22.4	22.9	20.0	21.6	18.5	15.6	17.2
20	20.6	17.6	19.1	24.4	21.2	22.8	22.1	20.1	21.2	19.2	16.1	17.9
21	20.8	18.7	19.9	24.5	21.6	23.2	22.2	19.3	20.8	19.5	16.8	18.2
22	20.4	18.5	19.5	24.0	21.7	22.8	22.1	19.2	20.7	19.0	16.0	17.7
23	21.6	18.4	19.9	23.9	21.4	22.7	21.9	19.2	20.6	19.1	16.1	17.9
24	22.1	19.4	20.8	24.0	21.5	22.8	22.4	19.1	20.8	19.7	16.4	18.3
25	22.5	19.8	21.2	24.7	21.8	23.2	22.5	19.4	21.1	19.3	17.6	18.6
26	22.6	20.3	21.6	24.1	21.5	22.9	22.2	19.4	21.0	19.1	16.3	18.0
27	22.7	20.8	21.8	23.5	21.1	22.5	21.8	19.5	20.9	18.6	16.2	17.4
28	22.8	20.5	21.8	23.5	20.6	22.1	22.5	19.3	21.0	19.1	16.1	17.5
29	22.6	20.2	21.5	23.7	20.4	22.1	22.0	19.8	21.0	18.3	16.6	17.5
30	23.2	20.4	21.8	23.9	20.6	22.4	21.9	19.3	20.7	16.9	15.6	16.3
31	---	---	---	24.1	21.3	22.8	21.9	19.1	20.5	---	---	---
MONTH	23.2	10.3	17.9	25.1	20.4	23.0	23.6	18.7	21.3	22.4	15.6	18.8

10170490 JORDAN RIVER AT SALT LAKE CITY, UT

Combined discharge, in cubic feet per second, of Jordan River and Surplus Canal

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	221	292	261	207	225	306	391	899	283	276	276
2	302	205	370	259	209	217	294	369	1050	271	296	297
3	284	202	378	250	207	212	291	371	941	261	290	302
4	288	203	388	252	204	209	289	381	864	258	265	293
5	299	203	369	250	205	209	285	382	895	270	248	303
6	308	201	374	249	206	209	307	419	927	300	251	318
7	312	292	568	259	205	214	317	462	1060	276	253	434
8	322	209	366	258	219	262	318	479	1030	313	252	536
9	455	194	341	258	214	247	301	424	920	286	269	386
10	359	193	338	257	209	238	296	394	714	315	283	315
11	375	197	307	254	216	234	298	490	489	309	282	306
12	369	200	267	257	205	225	289	450	383	309	286	313
13	344	195	257	256	207	420	307	395	392	310	277	289
14	325	188	256	250	207	339	306	385	427	306	274	276
15	380	188	270	235	206	272	331	455	462	314	283	262
16	377	186	256	234	215	251	522	465	451	285	270	361
17	306	189	249	232	216	316	490	479	491	284	262	466
18	363	200	254	231	221	292	425	498	447	322	273	625
19	292	194	257	232	219	266	439	594	415	389	278	355
20	265	197	257	229	273	256	385	684	418	354	324	324
21	280	202	259	226	272	250	342	868	391	329	341	315
22	272	650	260	233	232	247	307	763	397	323	313	308
23	244	713	250	223	229	247	286	575	380	310	313	310
24	212	359	249	220	225	509	276	493	385	277	299	294
25	211	388	234	222	227	425	281	408	367	275	298	287
26	210	440	241	231	223	324	303	341	349	301	312	292
27	214	361	245	229	223	286	480	321	402	281	297	303
28	222	313	244	239	224	262	433	342	334	280	293	317
29	220	291	248	226	---	256	357	418	269	279	300	320
30	219	304	254	208	---	254	365	557	265	276	295	352
31	446	---	257	207	---	254	---	786	---	281	279	---
TOTAL	9371	8078	9155	7427	6125	8427	10226	14839	17214	9227	8832	10135
MEAN	302.3	269.3	295.3	239.6	218.8	271.8	340.9	478.7	573.8	297.6	284.9	337.8
MAX	455	713	568	261	273	509	522	868	1060	389	341	625
MIN	210	186	234	207	204	209	276	321	265	258	248	262
AC-FT	18590	16020	18160	14730	12150	16710	20280	29430	34140	18300	17520	20100
CAL YR 2001	TOTAL	122430	MEAN	335.4	MAX	1060	MIN	186	AC-FT	242800		
WTR YR 2002	TOTAL	119056	MEAN	326.2	MAX	1060	MIN	186	AC-FT	236100		

JORDAN RIVER BASIN

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT
(Hydrologic bench mark station)

LOCATION.--Lat 40°46'48", long 111°48'19", in NE¹/₄SE¹/₄NW¹/₄ sec. 35, T. 1 N., R. 1 E., Salt Lake County, Hydrologic Unit 16020204, on right bank 0.4 mi upstream from dam forming Red Butte Reservoir, and 1.7 mi northeast of Fort Douglas.

DRAINAGE AREA.--7.25 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year. Figures of monthly discharge for January 1942 to September 1963, collected by Corps of Engineers, U.S. Army, available in files of Salt Lake City District Office, Geological Survey.

GAGE.--Water-stage recorder. Elevation of gage is 5,400 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 105 ft³/s, May 28, 1983, maximum gage height, 3.81 ft, May 17, 1984; minimum, 0.17 ft³/s, Nov 20, 1992, possible ice jam upstream.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 27	1300	*11	1.25	Apr 27	1415	11	*1.32

Minimum daily discharge, 0.74 ft³/s, Oct 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.75	1.3	1.4	1.3	e1.5	2.0	7.3	10	4.5	2.4	1.2	0.86
2	0.75	1.2	1.4	1.4	e1.4	2.5	7.9	9.8	4.6	2.3	1.3	0.84
3	0.75	1.2	1.3	1.4	e1.6	1.9	8.1	9.4	4.5	2.3	1.3	0.83
4	0.77	1.2	1.3	1.4	e1.6	2.0	8.3	9.1	4.3	2.2	1.2	0.83
5	0.74	1.2	1.3	1.4	e1.6	2.0	9.0	9.0	4.2	2.2	1.2	0.82
6	0.76	1.2	1.3	1.5	e1.4	2.0	9.5	8.7	4.1	2.1	1.1	0.91
7	0.77	1.3	1.3	1.7	e1.6	2.2	9.0	8.7	4.0	2.0	1.1	1.1
8	0.79	1.3	1.2	1.6	1.5	2.0	8.7	8.5	3.9	1.9	1.1	1.4
9	0.94	1.3	1.3	1.6	1.5	2.4	8.4	8.3	3.9	1.9	1.1	1.1
10	0.91	1.3	1.3	1.5	1.5	2.2	9.0	8.1	3.8	1.8	1.1	1.0
11	0.96	1.3	1.3	1.5	1.5	2.2	9.0	8.0	3.7	1.8	1.0	1.0
12	0.90	1.2	1.3	1.5	1.5	2.2	8.8	7.6	3.6	1.7	1.00	1.1
13	0.86	1.3	1.5	1.5	1.6	2.9	9.0	7.3	3.6	1.6	1.00	1.0
14	0.88	1.3	1.4	1.8	1.6	2.6	9.0	7.1	3.5	1.6	0.98	0.99
15	0.85	1.3	1.3	2.1	1.6	2.7	9.6	6.9	3.4	1.5	0.96	0.95
16	0.88	1.3	1.7	1.3	1.7	2.6	9.4	6.6	3.3	1.5	0.93	1.1
17	0.90	1.3	1.4	1.4	1.7	2.5	8.7	6.4	3.2	1.5	0.92	1.2
18	0.91	1.3	1.4	1.5	1.8	2.6	8.1	6.2	3.1	1.7	0.92	1.5
19	0.96	1.3	1.4	1.5	1.8	2.6	7.8	6.1	3.1	1.7	0.91	1.3
20	0.96	1.3	1.4	1.5	2.0	2.8	7.7	6.0	3.0	1.6	0.92	1.2
21	0.96	1.3	1.4	1.4	1.9	3.2	7.5	6.5	3.0	1.6	0.94	1.2
22	0.95	2.0	1.4	1.4	2.0	3.9	7.6	6.3	3.0	1.5	0.92	1.1
23	0.94	1.7	1.3	1.3	2.1	4.3	7.8	5.9	3.0	1.5	0.91	1.1
24	0.91	1.5	1.2	1.5	2.1	4.3	7.9	5.8	2.9	1.4	0.91	1.1
25	0.94	1.7	1.3	1.5	2.1	4.0	8.0	5.6	2.8	1.5	0.91	1.0
26	0.95	1.5	1.3	1.4	1.8	4.1	8.6	5.4	2.7	1.4	0.89	1.1
27	0.94	1.6	1.3	1.5	2.0	4.6	10	5.2	2.6	1.4	0.89	1.1
28	0.95	1.5	1.3	1.5	2.1	5.3	10	5.1	2.5	1.4	0.89	1.0
29	0.96	1.4	1.3	1.6	---	5.6	10	4.8	2.5	1.3	0.87	1.0
30	1.0	1.5	1.3	e1.5	---	6.2	10	4.7	2.4	1.3	0.87	1.0
31	1.6	---	1.4	e1.4	---	6.7	---	4.6	---	1.3	0.85	---
TOTAL	28.09	41.1	41.7	46.4	48.1	99.1	259.7	217.7	102.7	52.9	31.09	31.73
MEAN	0.906	1.370	1.345	1.497	1.718	3.197	8.657	7.023	3.423	1.706	1.003	1.058
MAX	1.6	2.0	1.7	2.1	2.1	6.7	10	10	4.6	2.4	1.3	1.5
MIN	0.74	1.2	1.2	1.3	1.4	1.9	7.3	4.6	2.4	1.3	0.85	0.82
AC-FT	56	82	83	92	95	197	515	432	204	105	62	63

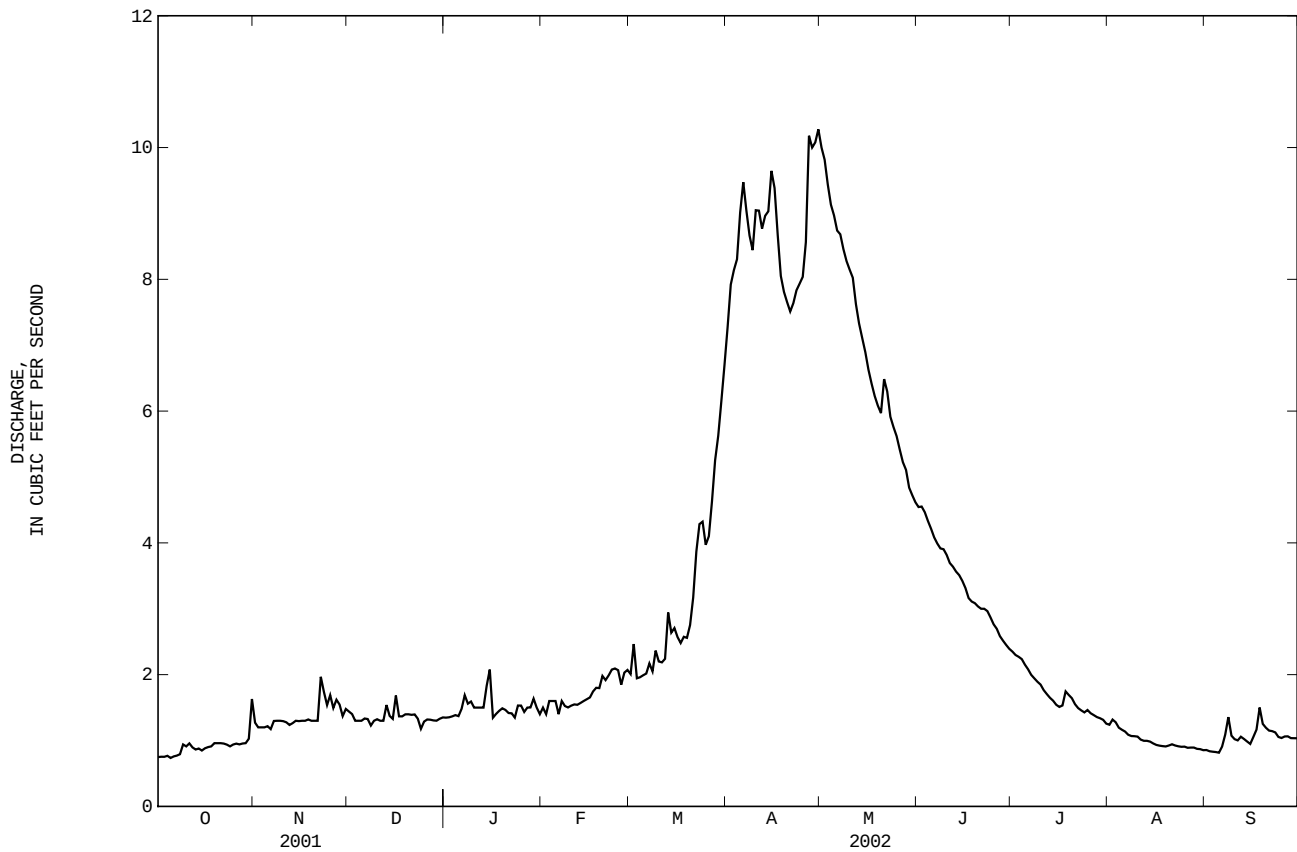
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEAN	1.973	2.040	1.936	1.962	2.389	4.567	9.264	12.91	6.768	3.373	2.176	1.851
MAX	3.86	3.53	3.37	3.46	7.00	12.8	22.2	50.5	29.7	9.22	5.77	4.10
(WY)	1984	1984	1984	1971	1986	1983	1986	1983	1983	1983	1983	1983
MIN	0.68	0.93	0.91	0.83	1.00	1.06	1.79	1.55	0.95	0.60	0.44	0.47
(WY)	1991	1991	1964	1964	1964	1964	1990	1990	1992	1990	1990	1990

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued
(Hydrologic bench mark station)

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1964 - 2002
ANNUAL TOTAL	827.30	1000.31	
ANNUAL MEAN	2.267	2.741	4.274
HIGHEST ANNUAL MEAN			12.5 1983
LOWEST ANNUAL MEAN			1.12 1990
HIGHEST DAILY MEAN	8.3 Apr 28	10 Apr 27	95 May 28 1983
LOWEST DAILY MEAN	0.73 Sep 28	0.74 Oct 5	0.38 Aug 9 1990
ANNUAL SEVEN-DAY MINIMUM	0.74 Sep 25	0.76 Oct 1	0.39 Sep 10 1990
ANNUAL RUNOFF (AC-FT)	1640	1980	3100
10 PERCENT EXCEEDS	5.9	7.8	9.8
50 PERCENT EXCEEDS	1.5	1.5	2.5
90 PERCENT EXCEEDS	0.83	0.92	1.1

e Estimated



10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued
(National Water-Quality Assessment Program Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1964 to September 1995, October 1998 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1, 1999 to September 30, 2002 (discontinued).

WATER TEMPERATURE: April 1964 to September 1978, October 1998 to September 30, 2002 (discontinued).

INSTRUMENTATION.--Temperature Recorder April 1975 to September 1978, October 1998 to September 2002. Conductivity data logger October 1999 to September 2002.

REMARKS.--Specific conductivity and temperature records good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 777 microsiemens, Dec 16, 2001; minimum, 372 microsiemens, Feb 3, 2001.

WATER TEMPERATURE: Maximum 24.0°C, Jul 29, 31, Aug 1, 3, 4, 1969; minimum, 0.0°C, many days during winter period of most years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 777 microsiemens, Dec 16; minimum, 426 microsiemens Apr 14.

WATER TEMPERATURE: Maximum, 17.1°C, Jul 13; minimum, 0.0°C, on many days during the winter period.

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

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CAC03 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HC03 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS C03 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV 13...	1140	1.3	627	130	13.2	8.3	696	7.0	6.2	246	290	5	12.5
JAN 07...	1410	1.6	631	151	16.9	8.3	670	6.0	2.9	232	273	5	11.8
MAR 26...	1200	3.6	631	103	11.0	8.2	597	16.0	4.5	204	249	--	12.2
MAY 23...	1250	6.6	627	104	10.5	8.6	542	13.0	6.8	231	269	6	7.91
JUL 23...	1250	1.8	631	117	9.8	8.4	572	31.5	14.8	205	244	3	10.5
SEP 10...	1300	1.0	632	104	9.4	8.5	618	22.0	11.7	223	261	5	10.8

Date	SULFATE DIS-SOLVED (MG/L AS S04) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS P04) (00660)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV 13...	121	<.04	E.07	<.05	<.008	.071	.02	.033	.04	10
JAN 07...	127	<.04	E.08	E.04	<.008	.058	.02	.026	.24	54
MAR 26...	117	<.04	.16	E.03	<.008	.067	.02	.040	.12	12
MAY 23...	64.0	<.04	.15	<.05	<.008	.055	.02	.043	.71	40
JUL 23...	85.9	<.04	.11	E.03	<.008	--	E.01	.020	.15	31
SEP 10...	99.1	<.04	E.08	<.05	<.008	--	E.01	.022	.04	13

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2) (70957)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M (00572)	PERI-PHYTON BIOMASS DRY WEIGHT G/SQ M (00573)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS) (70950)	PHEO-PHYTON A, PERI-PHYTON (MG/M2) (62359)
AUG 06...	1330	1.6	9.4	8.1	570	13.5	68.1	450	476.2	397	8.9

E Estimated value.

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

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued
(National Water-Quality Assessment Program Station)

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	625	607	617	708	689	701	691	647	669	720	695	710
2	624	608	618	716	700	707	675	637	658	734	712	723
3	632	618	626	718	699	709	712	668	688	729	695	712
4	638	622	631	717	701	709	728	710	720	719	693	707
5	646	630	638	705	691	698	736	725	730	734	691	715
6	646	625	637	703	689	696	729	684	714	717	668	694
7	642	624	635	707	677	688	730	684	706	688	659	675
8	644	633	638	719	704	713	745	716	733	695	660	677
9	653	623	637	728	710	719	746	710	728	694	658	678
10	671	653	662	723	701	713	749	723	739	712	674	699
11	669	640	658	720	702	711	745	733	740	712	677	694
12	676	655	664	712	698	706	751	738	745	707	671	690
13	666	652	660	716	682	701	751	732	742	707	668	691
14	675	660	669	705	683	695	738	717	726	715	692	702
15	686	671	678	716	679	698	747	718	733	724	662	705
16	688	669	679	717	686	702	777	741	756	727	686	708
17	680	665	673	712	671	693	754	732	742	731	690	713
18	686	672	678	696	655	677	743	733	737	729	686	708
19	694	676	685	707	678	693	736	720	728	728	672	702
20	687	670	680	719	676	697	735	716	726	708	672	691
21	686	668	678	711	662	685	739	725	730	710	673	691
22	685	669	678	692	600	647	743	726	733	712	675	690
23	695	676	683	695	668	682	761	722	745	716	671	700
24	716	693	704	724	690	707	774	745	759	720	673	703
25	719	693	706	701	671	684	775	736	756	717	641	687
26	711	688	701	718	674	694	769	726	749	700	659	680
27	708	689	698	718	691	708	740	715	730	691	650	672
28	696	681	690	728	694	714	731	713	722	696	660	672
29	699	683	691	708	650	678	733	711	723	739	678	715
30	706	684	697	670	642	657	721	701	714	768	727	749
31	703	620	669	---	---	---	719	700	712	735	671	716
MONTH	719	607	666	728	600	696	777	637	727	768	641	699

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	724	672	695	667	642	656	599	549	576	529	472	484
2	717	675	698	701	644	674	583	545	565	555	522	540
3	729	664	695	701	635	667	571	527	556	547	519	534
4	728	667	696	687	627	654	562	495	547	537	503	521
5	725	671	698	657	619	638	546	508	530	520	498	511
6	714	663	688	645	619	631	533	513	525	517	494	508
7	711	643	676	632	599	618	544	524	534	520	498	510
8	688	658	673	646	611	632	549	532	540	533	508	521
9	692	652	673	677	625	652	550	526	542	542	510	527
10	702	658	682	646	626	636	537	501	520	549	494	522
11	700	656	679	647	618	633	527	506	520	530	502	515
12	694	652	674	640	624	633	537	513	527	530	510	522
13	700	639	670	628	546	594	527	500	518	532	511	523
14	683	643	663	647	610	625	516	426	475	530	509	521
15	711	665	688	662	611	634	468	452	460	532	511	523
16	704	657	683	640	610	623	486	462	471	531	513	523
17	687	638	665	658	615	631	507	486	496	535	515	526
18	681	640	663	663	628	644	579	507	543	536	512	526
19	679	639	660	661	618	639	590	572	580	574	516	536
20	669	605	633	644	577	615	601	585	592	541	512	527
21	667	626	655	613	536	582	606	581	595	532	493	512
22	675	627	648	588	488	551	605	576	592	537	493	510
23	654	623	637	584	525	564	594	570	583	545	521	536
24	659	631	649	619	550	591	592	565	579	549	523	538
25	687	650	669	627	592	613	584	561	574	548	521	537
26	721	631	686	622	537	596	571	526	555	547	523	536
27	702	634	670	599	456	566	536	475	511	546	521	536
28	671	642	655	592	512	560	519	464	501	547	521	536
29	---	---	---	591	526	564	497	449	472	545	520	535
30	---	---	---	596	515	568	472	448	465	545	517	533
31	---	---	---	600	541	575	---	---	---	543	513	531
MONTH	729	605	672	701	456	615	606	426	535	574	472	525

JORDAN RIVER BASIN

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued
(National Water-Quality Assessment Program Station)

SPECIFIC CONDUCTANCE, in US/CM @ 25°C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	545	533	539	578	548	564	---	---	---	---	---	---
2	546	521	535	579	552	565	---	---	---	---	---	---
3	544	512	529	578	550	566	---	---	---	---	---	---
4	536	515	527	580	550	567	---	---	---	---	---	---
5	546	516	532	575	547	563	---	---	---	---	---	---
6	536	500	520	571	544	559	---	---	---	---	---	---
7	523	494	512	570	543	559	---	---	---	---	---	---
8	523	496	511	575	546	564	---	---	---	---	---	---
9	550	520	539	580	551	568	---	---	---	---	---	---
10	560	537	550	579	551	566	---	---	---	---	---	---
11	560	532	547	576	548	564	---	---	---	656	563	618
12	551	519	537	578	548	566	---	---	---	646	563	600
13	543	502	525	581	554	570	---	---	---	650	557	613
14	522	490	509	585	554	571	---	---	---	645	566	606
15	521	483	504	582	552	569	---	---	---	653	562	595
16	521	495	509	580	550	567	---	---	---	643	566	582
17	543	514	527	577	548	566	---	---	---	663	588	613
18	570	532	551	580	512	565	---	---	---	663	584	607
19	582	557	572	598	565	582	---	---	---	663	592	621
20	586	559	574	586	557	573	---	---	---	668	576	611
21	587	560	574	580	552	569	---	---	---	660	582	611
22	584	565	576	584	556	573	---	---	---	660	589	624
23	589	562	578	585	549	572	---	---	---	658	585	597
24	590	558	577	---	---	---	---	---	---	598	576	590
25	589	558	575	---	---	---	---	---	---	595	577	586
26	585	554	572	---	---	---	---	---	---	598	584	591
27	584	549	570	---	---	---	---	---	---	599	583	591
28	582	547	567	---	---	---	---	---	---	599	583	592
29	581	547	566	---	---	---	---	---	---	607	590	602
30	580	547	565	---	---	---	---	---	---	609	598	604
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	590	483	546	---	---	---	---	---	---	---	---	---

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	12.7	9.8	11.1	8.4	5.6	6.7	1.2	0.0	0.5	2.5	1.2	1.9
2	12.3	9.8	10.9	7.1	4.3	5.4	2.2	1.2	1.8	1.6	0.2	1.0
3	11.2	8.4	9.7	6.8	3.4	4.9	2.3	0.7	1.7	2.1	0.9	1.6
4	10.7	7.8	9.2	6.7	3.6	5.1	2.2	1.3	1.7	2.3	0.6	1.7
5	10.3	7.6	8.8	8.3	6.0	7.2	1.6	0.6	1.2	1.4	0.0	0.7
6	10.5	7.5	8.8	9.3	7.3	8.2	2.8	1.4	2.2	2.6	1.4	2.0
7	10.9	8.1	9.4	8.4	5.5	7.6	2.8	0.5	1.8	3.0	2.0	2.5
8	9.7	8.3	9.1	6.0	3.8	4.8	0.7	0.0	0.1	3.2	2.1	2.6
9	9.0	5.6	7.5	5.6	2.8	4.1	1.9	0.0	0.7	3.4	2.5	2.8
10	6.7	4.1	5.4	7.0	4.0	5.3	1.1	0.0	0.4	2.6	0.4	1.3
11	6.2	4.6	5.3	7.2	4.1	5.6	1.0	0.1	0.5	2.0	0.5	1.1
12	5.6	3.0	4.4	8.2	6.0	6.9	0.8	0.0	0.2	2.5	0.7	1.4
13	7.9	5.2	6.4	7.0	5.1	5.9	1.2	0.0	0.5	2.1	0.0	1.0
14	7.8	4.5	6.2	6.5	4.0	5.1	2.1	0.4	1.4	0.0	0.0	0.0
15	7.9	5.2	6.6	5.5	3.2	4.2	0.7	0.0	0.3	0.0	0.0	0.0
16	8.2	4.9	6.4	4.9	2.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0
17	9.3	6.8	7.8	5.7	2.8	4.1	1.0	0.0	0.4	0.0	0.0	0.0
18	7.8	5.2	6.5	6.0	3.9	4.9	1.1	0.4	0.7	0.0	0.0	0.0
19	7.1	3.8	5.3	4.8	2.6	3.5	2.3	1.0	1.6	0.1	0.0	0.0
20	8.4	5.4	6.6	4.3	1.9	2.8	2.5	1.0	1.7	0.9	0.1	0.5
21	8.7	5.8	7.1	5.6	2.7	4.3	1.6	0.6	1.2	1.9	0.9	1.4
22	8.3	6.1	7.2	5.2	0.5	4.3	1.4	0.0	0.9	1.7	0.0	1.0
23	7.7	4.9	6.8	1.7	0.0	0.8	0.0	0.0	0.0	0.5	0.0	0
24	5.4	2.6	4.0	2.0	0.4	1.3	0.0	0.0	0.0	0.8	0.0	0.2
25	5.4	2.1	3.6	1.7	0.0	0.1	0.0	0.0	0.0	1.3	0.0	0.5
26	6.7	2.9	4.5	0.8	0.0	0.2	0.0	0.0	0.0	2.2	1.3	1.8
27	7.5	4.1	5.6	0.8	0.0	0	0.2	0.0	0	2.2	1.8	2.0
28	9.6	7.0	8.0	0.6	0.0	0.2	1.1	0.1	0.7	2.0	0.0	0.9
29	9.8	7.1	8.2	0.6	0.0	0	1.6	0.7	1.3	0.0	0.0	0.0
30	8.6	6.8	7.9	0.4	0.0	0	2.1	1.6	1.9	0.0	0.0	0.0
31	8.7	6.6	7.5	---	---	---	2.4	1.4	2.0	0.0	0.0	0.0
MONTH	12.7	2.1	7.2	9.3	0.0	3.9	2.8	0.0	0.9	3.4	0.0	1.0

WATER TEMPERATURE, IN DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	1.4	0.0	0.3	7.7	2.7	4.5	8.8	4.6	6.4
2	0.0	0.0	0.0	0.1	0.0	0.0	7.7	3.0	4.6	9.9	4.2	6.5
3	0.0	0.0	0.0	0.6	0.0	0	7.8	2.7	4.5	9.1	5.2	6.8
4	0.0	0.0	0.0	1.4	0.0	0.4	8.4	2.9	4.9	11.4	5.1	7.6
5	0.0	0.0	0.0	2.4	0.0	0.9	8.8	3.5	5.4	11.4	6.2	8.0
6	0.0	0.0	0.0	3.0	1.4	2.2	6.8	4.0	5.1	12.2	5.3	8.1
7	0.3	0.0	0	2.9	0.6	1.9	8.2	3.3	5.1	11.7	5.8	8.1
8	0.8	0.3	0.5	1.8	0.0	0.2	8.0	3.2	5.0	9.3	3.3	5.7
9	1.2	0.3	0.7	1.4	0.0	0.4	7.4	3.7	5.3	10.6	3.3	6.4
10	0.9	0.0	0.5	3.7	0.9	2.1	8.2	4.4	5.8	7.2	5.6	6.4
11	1.5	0.2	0.7	4.0	1.5	2.6	8.8	3.6	5.5	8.2	3.7	6.3
12	1.4	0.3	0.8	3.1	2.2	2.6	9.4	4.4	6.2	11.7	4.7	7.5
13	1.0	0.0	0.5	2.8	0.0	1.8	9.9	4.1	6.3	12.7	5.2	8.4
14	2.3	1.0	1.5	3.0	0.0	0.9	9.2	4.8	6.5	13.0	6.8	9.3
15	1.5	0.3	0.8	2.6	0.0	0.7	7.5	3.5	5.7	11.7	5.8	8.4
16	2.0	0.7	1.2	2.7	0.6	1.3	6.1	2.6	4.1	12.8	7.3	9.4
17	2.7	1.5	1.9	1.5	0.0	0.5	4.3	2.7	3.8	12.9	6.0	9.1
18	2.9	1.9	2.2	3.2	0.0	1.0	5.5	3.2	4.3	13.7	7.1	9.9
19	3.0	1.7	2.2	3.5	0.0	1.3	6.1	3.1	4.4	13.2	7.1	9.9
20	2.3	0.9	1.6	5.0	0.7	2.4	4.5	3.1	3.8	12.9	7.6	10.0
21	2.7	0.0	1.1	5.8	1.8	3.3	7.8	3.5	5.1	9.8	5.1	7.5
22	3.5	0.8	1.9	6.1	2.2	3.6	10.0	3.3	5.9	7.5	5.1	6.2
23	3.9	2.1	2.7	5.6	2.7	3.7	10.0	4.0	6.4	7.6	4.6	6.1
24	3.5	2.0	2.6	3.9	0.9	2.3	9.2	2.9	5.6	10.9	5.0	7.5
25	2.1	0.0	0.8	5.3	2.1	3.5	9.7	3.9	6.3	11.9	5.5	8.4
26	0.4	0.0	0	6.2	1.8	3.5	11.3	5.1	7.4	12.4	6.9	9.4
27	1.3	0.0	0.2	6.9	2.6	4.1	6.1	4.4	5.4	13.1	7.5	9.9
28	2.2	0.0	0.8	6.5	2.2	3.8	9.3	4.8	6.5	13.3	7.7	10.2
29	---	---	---	6.2	2.4	3.8	11.1	4.6	7.1	13.1	8.1	10.4
30	---	---	---	7.1	2.4	4.1	10.7	5.1	7.3	14.2	8.4	11.0
31	---	---	---	7.5	2.6	4.3	---	---	---	14.1	8.8	11.3
MONTH	3.9	0.0	0.9	7.5	0.0	2.0	11.3	2.6	5.5	14.2	3.3	8.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	11.5	9.5	10.4	15.5	10.6	12.8	---	---	---	---	---	---
2	12.0	8.7	10	15.4	10.7	12.9	---	---	---	---	---	---
3	12.4	8.0	9.9	14.4	12.0	13.1	---	---	---	---	---	---
4	12.4	7.6	9.8	15.6	10.9	12.9	---	---	---	---	---	---
5	13.0	7.8	10.2	15.8	11.2	13.2	---	---	---	---	---	---
6	13.9	8.7	11.0	16.0	12.0	13.8	---	---	---	---	---	---
7	13.8	9.1	11.3	16.7	12.3	14.2	---	---	---	---	---	---
8	12.5	9.2	10.5	16.5	12.0	13.9	---	---	---	---	---	---
9	9.3	6.0	7.4	16.1	11.2	13.4	---	---	---	---	---	---
10	10.1	4.7	7.1	16.5	11.7	13.8	---	---	---	---	---	---
11	11.2	5.8	8.2	16.8	12.1	14.1	---	---	---	11.8	10.7	11.3
12	12.2	6.8	9.3	16.9	12.0	14.1	---	---	---	12.2	10.6	11.3
13	13.1	7.8	10.1	17.1	12.2	14.3	---	---	---	13.0	10.0	11.4
14	13.8	8.5	10.8	16.9	12.1	14.2	---	---	---	12.9	9.7	11.1
15	14.0	9.1	11.2	16.9	12.8	14.6	---	---	---	13.1	10.0	11.4
16	14.3	9.3	11.5	16.6	13.0	14.5	---	---	---	11.6	10.0	10.8
17	14.0	9.2	11.4	16.3	12.6	14.2	---	---	---	10.5	9.3	9.9
18	13.9	9.2	11.3	15.1	12.4	13.6	---	---	---	9.7	8.5	9.2
19	13.6	10.0	11.4	16.0	12.0	13.6	---	---	---	10.2	7.2	8.5
20	14.0	9.1	11.3	16.1	11.9	13.6	---	---	---	10.7	7.5	8.9
21	14.0	10.3	12.0	16.0	11.7	13.5	---	---	---	10.8	8.2	9.3
22	12.6	10.3	11.5	15.4	11.8	13.4	---	---	---	10.2	7.0	8.5
23	14.2	9.4	11.5	16.1	12.8	14.2	---	---	---	10.4	7.1	8.6
24	14.9	9.9	12.1	---	---	---	---	---	---	10.9	7.7	9.1
25	15.1	10.0	12.4	---	---	---	---	---	---	10.9	9.1	9.9
26	15.2	11.0	12.8	---	---	---	---	---	---	10.2	7.3	8.7
27	15.2	11.2	13.0	---	---	---	---	---	---	9.7	7.4	8.6
28	15.3	10.5	12.6	---	---	---	---	---	---	10.9	8.8	9.6
29	15.1	10.2	12.4	---	---	---	---	---	---	10.3	8.5	9.4
30	15.3	10.2	12.5	---	---	---	---	---	---	9.7	8.4	9.0
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	15.3	4.7	10.9	---	---	---	---	---	---	---	---	---

LOCATION.--Lat 39°58'46", long 112°22'46", in NE¹/₄SW¹/₄SW¹/₄ sec. 2, T. 10 S., R. 5 W., Tooele County, Hydrologic Unit 16020304, on right bank 6.6 mi upstream from confluence with Dutch Creek forming Faust Creek and 8.3 mi southeast of Vernon.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 825 ft³/s, Aug 27, 1972, gage height, 5.70 ft, based on slope-area measurement; minimum daily, 0.41 ft³/s, Nov 20, 1961.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 6	2015	*80.1	*2.04				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.6	1.5	e2.1	e2.0	2.6	2.6	2.2	1.8	2.0	2.3	1.6
2	2.3	2.5	1.6	e2.1	e2.0	e2.5	2.5	2.2	1.9	2.0	2.4	1.6
3	2.3	2.5	1.7	e2.2	e2.0	e2.5	2.5	2.2	1.9	2.2	2.3	1.6
4	2.4	2.5	1.7	e2.4	e2.0	e2.5	2.5	2.2	2.0	2.1	2.1	1.6
5	2.3	2.5	1.7	e2.4	e2.1	e2.5	2.5	2.2	2.0	2.4	2.0	1.6
6	2.3	2.5	1.7	e2.3	e2.1	2.6	2.5	2.2	2.0	2.2	2.0	6.1
7	2.4	2.7	1.7	e2.3	e2.1	2.8	2.4	2.2	1.9	2.3	2.0	2.5
8	2.5	2.6	1.7	e2.3	e2.1	2.8	2.2	2.2	1.9	1.9	2.1	3.1
9	2.5	2.5	1.7	e2.3	e2.1	e2.7	2.2	2.2	2.0	2.3	2.0	2.0
10	2.5	2.7	1.7	e2.3	e2.1	2.7	2.4	2.2	1.9	2.3	2.0	1.8
11	2.5	2.7	1.7	2.3	e2.1	2.6	2.5	2.1	1.9	2.3	2.0	1.7
12	2.7	2.7	1.7	2.2	e2.1	2.5	2.5	2.0	1.9	2.3	1.9	1.7
13	2.6	2.8	e1.7	2.2	e2.1	2.5	2.5	2.0	1.9	2.4	1.8	1.7
14	2.5	2.7	1.7	2.2	e2.1	2.3	2.5	2.0	2.0	2.5	1.8	1.7
15	2.5	2.7	1.8	2.2	2.0	e2.6	2.5	2.0	2.0	2.5	1.8	1.6
16	2.5	2.7	e1.8	2.3	2.0	2.9	2.5	2.0	1.9	2.4	1.7	1.6
17	2.5	2.7	1.7	e2.3	1.8	2.7	2.4	1.9	1.8	2.5	1.7	1.7
18	2.5	2.7	1.7	2.5	1.8	2.5	2.1	1.8	1.8	2.6	1.7	1.8
19	2.5	2.6	1.7	e2.1	2.5	e2.7	2.0	1.8	1.8	2.7	1.7	1.8
20	2.4	2.6	1.6	1.8	2.6	2.8	2.0	1.8	1.8	2.6	1.7	1.8
21	2.2	2.6	1.5	1.9	2.7	3.1	1.9	1.9	1.8	2.6	1.7	1.8
22	2.5	3.1	e1.5	2.0	2.7	3.2	1.8	2.0	1.8	2.7	1.7	1.8
23	2.5	1.8	e1.5	e2.1	2.8	3.3	2.0	2.0	1.9	2.6	1.7	1.8
24	2.5	1.7	e1.5	e2.0	2.9	3.2	2.2	2.0	2.0	2.6	1.7	1.8
25	2.5	1.7	e1.5	e2.1	2.9	3.2	2.2	1.9	2.0	2.8	1.7	1.8
26	2.5	1.7	e1.7	e2.0	2.7	2.9	2.2	1.9	2.0	2.8	1.7	1.8
27	2.5	1.7	e1.7	1.8	2.6	2.9	2.5	1.9	2.0	2.5	1.7	1.8
28	2.5	e1.7	e1.8	2.0	2.6	2.7	2.4	1.9	2.0	2.5	1.7	1.8
29	2.5	1.7	e1.8	e2.0	---	2.7	2.2	1.8	2.0	2.4	1.6	1.8
30	2.8	1.4	e2.0	e2.0	---	2.7	2.2	1.9	2.0	2.2	1.6	1.8
31	3.0	---	e2.0	e2.0	---	2.7	---	1.8	---	2.2	1.6	---
TOTAL	77.0	71.6	52.3	66.7	63.6	84.9	69.4	62.4	57.6	74.4	57.4	58.6
MEAN	2.484	2.387	1.687	2.152	2.271	2.739	2.313	2.013	1.920	2.400	1.852	1.953
MAX	3.0	3.1	2.0	2.5	2.9	3.3	2.6	2.2	2.0	2.8	2.4	6.1
MIN	2.2	1.4	1.5	1.8	1.8	2.3	1.8	1.8	1.8	1.9	1.6	1.6
AC-FIT	153	142	104	132	126	168	138	124	114	148	114	111

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2002, BY WATER YEAR (WY)

MEAN	3.121	3.057	2.926	2.895	2.963	3.430	5.646	6.644	4.255	3.391	3.105	3.055
MAX (WY)	9.08 1984	8.89 1985	7.93 1985	7.92 1985	7.65 1985	9.30 1985	21.6 1983	40.0 1983	19.3 1983	12.3 1983	10.1 1983	9.61 1983
MIN (WY)	1.06 1960	1.20 1960	1.23 1960	1.08 1961	1.32 1961	1.42 1961	1.42 1961	1.20 1961	1.20 1961	1.05 1961	1.01 1961	1.11 1959

10172700 VERNON CREEK NEAR VERNON, UT--Continued

SUMMARY STATISTICS

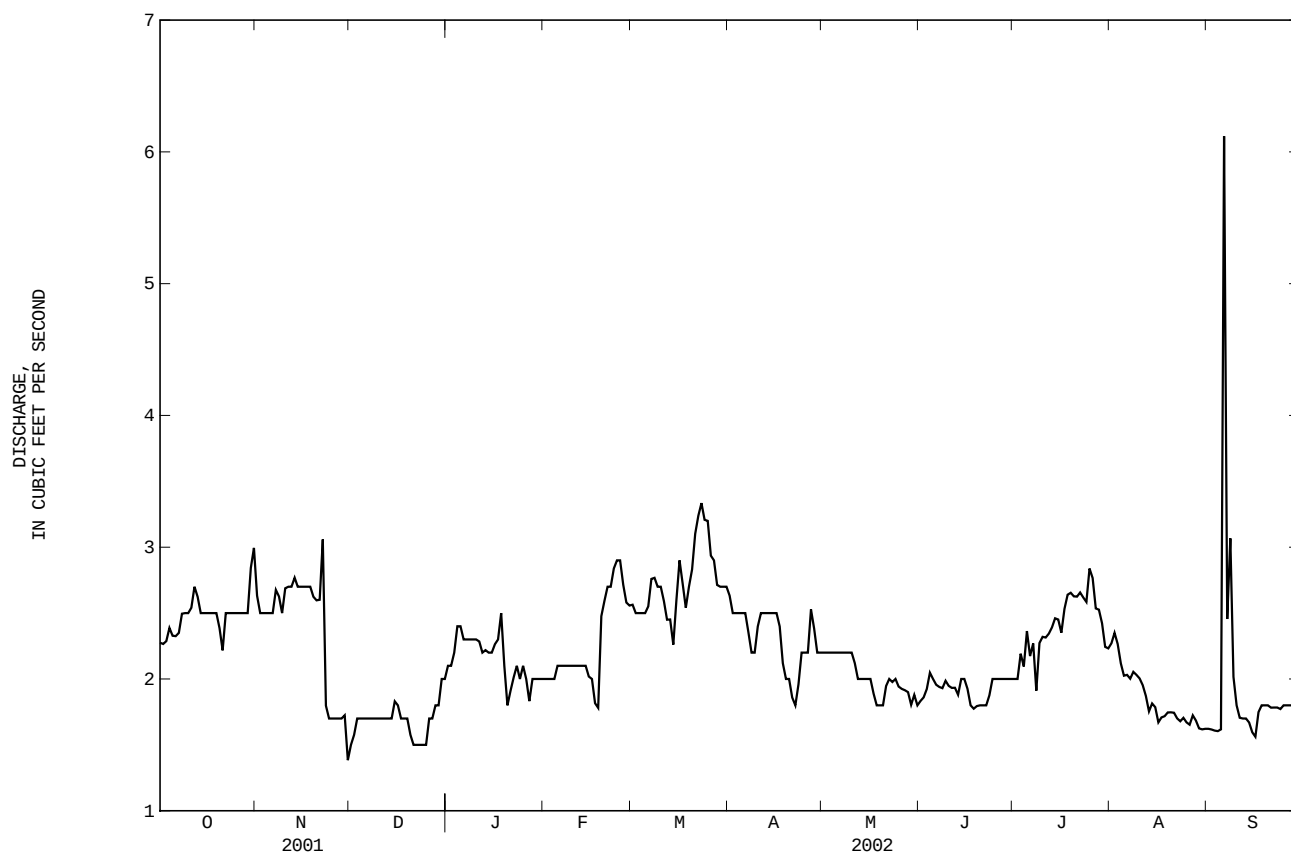
FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1959 - 2002

ANNUAL TOTAL	909.2		795.9		3.710	
ANNUAL MEAN	2.491		2.181		12.0	1983
HIGHEST ANNUAL MEAN					1.26	1961
LOWEST ANNUAL MEAN					70	Apr 24 1983
HIGHEST DAILY MEAN	3.7	Apr 29	6.1	Sep 6	0.84	Dec 18 1967
LOWEST DAILY MEAN	1.4	Nov 30	1.4	Nov 30	0.93	Jul 21 1961
ANNUAL SEVEN-DAY MINIMUM	1.5	Dec 19	1.5	Dec 19		
ANNUAL RUNOFF (AC-FT)	1800		1580		2690	
10 PERCENT EXCEEDS	2.9		2.7		7.1	
50 PERCENT EXCEEDS	2.5		2.1		2.6	
90 PERCENT EXCEEDS	1.8		1.7		1.5	

e Estimated



LOCATION.--Lat 40°29'47", long 112°34'25", in SW¹/₄NW¹/₄SW¹/₄ sec. 6, T. 4 S., R. 6 W., Tooele County, Hydrologic Unit 16020304, on right bank 200 ft upstream from Forest Service Guard Station, 1.7 mi above Wasatch National Forest boundary, 9.2 mi southwest of Grantsville, and 14.8 mi west of Tooele.

PERIOD OF RECORD.--July 1963 to current year. Annual maximum only, July 1960 to July 1963, at crest-stage gage site.

REVISED RECORDS.--WDR UT-83-1: 1982.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,360 ft above NGVD of 1929, from topographic map. Prior to July 23, 1963, crest-stage gage only, at site 1.4 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 118 ft³/s, Jul 24, 1998, gage height, 2.45 ft, from rating extended above 75 ft³/s by slope-conveyance methods; minimum daily discharge, 1.4 ft³/s, Jan 5, 1993 and several days in Jan, Feb, and Mar, 2002.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jun 3	1100	*31	*1.58				

Minimum daily discharge, 1.4 ft³/s, several days in Jan, Feb, and Mar.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.5	2.0	1.6	1.4	1.6	2.6	6.7	23	5.2	2.6	2.3
2	2.0	2.3	2.0	1.6	1.4	1.6	2.7	6.7	24	5.0	2.6	2.2
3	2.0	2.3	2.0	1.6	1.4	1.6	3.2	6.3	26	5.0	2.5	2.0
4	2.0	2.3	2.0	1.6	1.5	1.6	3.8	6.2	22	4.7	2.3	2.0
5	2.0	2.3	2.0	1.6	1.6	1.6	4.6	6.0	16	4.3	2.3	2.0
6	2.0	2.3	2.1	1.6	1.6	1.6	5.1	6.2	16	4.0	2.4	2.3
7	2.0	2.4	2.0	e1.6	1.6	1.6	5.5	7.3	15	4.0	2.5	2.0
8	2.0	2.3	2.0	e1.6	1.7	1.6	5.5	7.8	17	4.0	2.3	2.2
9	2.1	2.3	2.0	e1.6	1.8	1.6	5.5	7.6	18	4.0	2.3	2.0
10	2.3	2.3	2.0	e1.6	1.8	1.6	5.5	7.2	15	3.9	2.3	2.0
11	2.3	2.3	2.0	1.6	1.7	1.6	5.5	8.0	12	3.6	2.3	2.0
12	2.2	2.3	2.0	1.6	1.6	1.6	5.5	7.3	11	3.6	2.3	2.0
13	2.0	2.3	2.0	1.6	1.6	1.6	5.5	7.4	10	3.5	2.3	2.0
14	2.0	2.3	1.6	1.6	1.6	1.6	5.8	7.8	10	3.2	2.3	2.0
15	2.0	2.3	1.7	1.6	1.6	1.6	6.2	8.0	9.8	3.2	2.3	2.0
16	2.0	2.3	2.0	1.6	1.6	1.4	6.2	8.8	9.1	3.2	2.4	2.0
17	2.0	2.3	2.0	1.6	1.6	1.5	6.2	9.2	9.1	3.2	2.4	2.0
18	2.0	2.3	2.0	1.6	1.6	1.4	6.2	9.3	9.5	3.2	2.4	2.0
19	2.0	2.1	2.0	1.6	1.6	1.4	6.2	12	9.9	3.2	2.3	2.0
20	2.0	2.0	1.9	1.6	1.6	1.5	5.5	16	9.9	3.1	2.3	2.0
21	2.0	2.0	1.6	1.6	1.6	1.6	5.0	19	9.8	3.1	2.3	2.0
22	2.0	2.4	1.6	1.6	1.6	1.7	5.0	18	9.8	2.9	2.3	2.0
23	2.0	2.1	1.6	1.6	1.6	1.7	5.0	14	9.5	2.9	2.3	2.0
24	2.0	2.0	1.6	1.6	1.6	1.8	4.8	10	8.5	2.9	2.3	2.0
25	2.0	2.1	1.6	1.6	1.6	1.8	4.5	9.8	7.5	2.9	2.3	2.0
26	2.0	2.0	1.6	1.6	1.6	1.8	4.9	9.8	7.2	2.8	2.3	2.0
27	2.0	2.0	1.6	1.6	1.6	1.9	5.1	11	7.0	2.6	2.3	2.0
28	2.0	2.0	1.6	1.6	1.6	1.9	5.8	11	6.7	2.6	2.3	2.0
29	2.0	2.1	1.6	1.6	---	2.2	5.9	10	6.4	2.6	2.3	2.0
30	2.2	2.0	1.6	e1.5	---	2.3	6.7	11	5.8	2.6	2.3	2.0
31	2.6	---	1.6	e1.4	---	2.4	---	17	---	2.6	2.3	---
TOTAL	63.9	66.5	56.9	49.3	44.7	52.3	155.5	302.4	370.5	107.6	72.7	61.0
MEAN	2.061	2.217	1.835	1.590	1.596	1.687	5.183	9.755	12.35	3.471	2.345	2.033
MAX	2.6	2.5	2.1	1.6	1.8	2.4	6.7	19	26	5.2	2.6	2.3
MIN	2.0	2.0	1.6	1.4	1.4	1.4	2.6	6.0	5.8	2.6	2.3	2.0
AC-FT	127	132	113	98	89	104	308	600	735	213	144	121

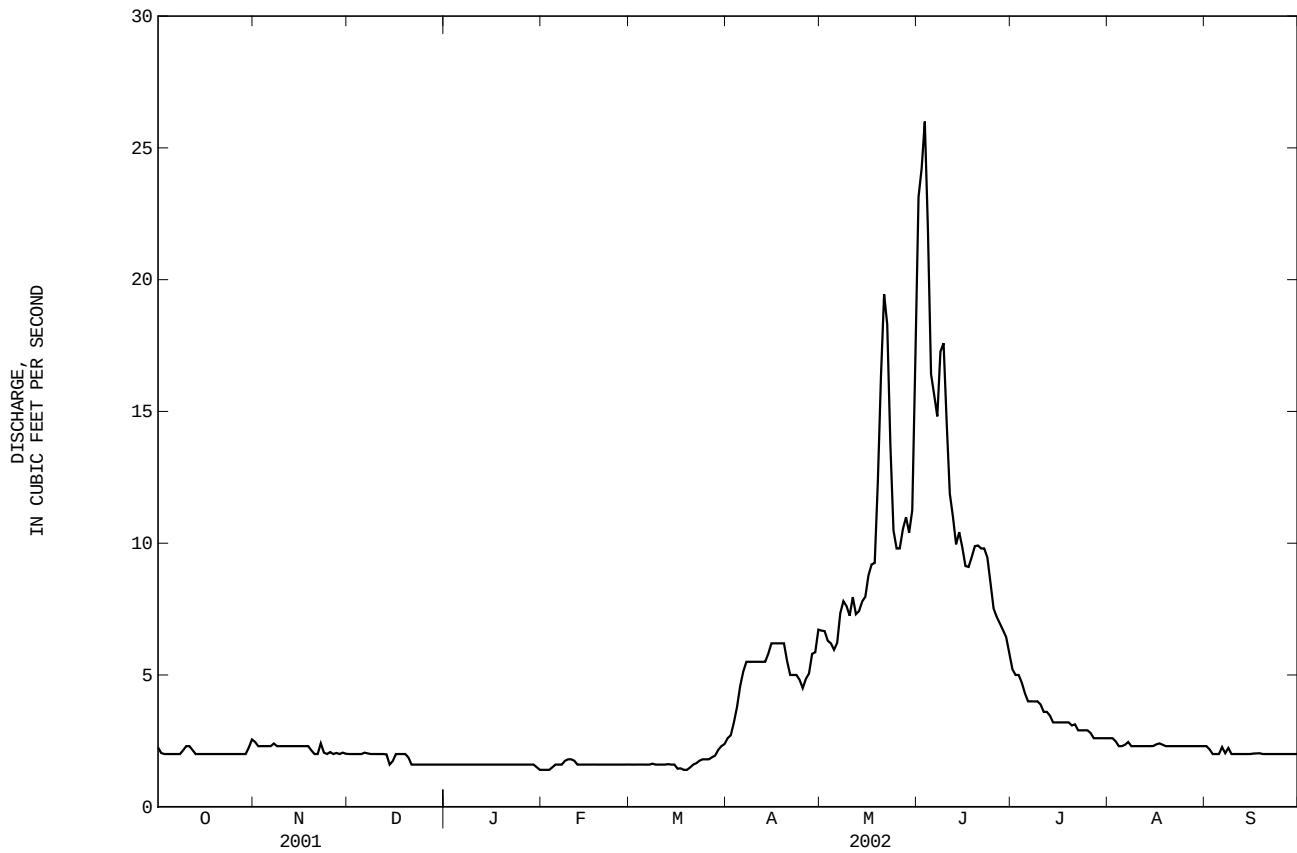
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	3.648	3.386	3.025	2.937	2.925	3.630	6.409	16.12	19.43	9.608	5.167	4.110
MAX	7.59	6.57	5.79	5.61	5.84	7.13	12.0	40.0	46.0	24.6	12.6	9.54
(WY)	1984	1985	1985	1984	1984	1986	1986	1984	1984	1984	1984	1982
MIN	1.71	1.70	1.64	1.50	1.54	1.53	2.42	4.38	4.00	2.55	1.91	1.71
(WY)	1991	1991	1991	1991	1991	1991	1967	1977	1992	1992	1992	1992

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1964 - 2002	
ANNUAL TOTAL	1586.6		1403.3		6.710	
ANNUAL MEAN	4.347		3.845		14.9	
HIGHEST ANNUAL MEAN					3.03	
LOWEST ANNUAL MEAN					84	
HIGHEST DAILY MEAN	25	May 18	26	Jun 3	84	Jun 1 1984
LOWEST DAILY MEAN	1.6	Dec 14	1.4	Jan 31	1.4	Jan 5 1993
ANNUAL SEVEN-DAY MINIMUM	1.6	Dec 21	1.5	Jan 29	1.5	Jan 29 2002
ANNUAL RUNOFF (AC-FT)	3150		2780		4860	
10 PERCENT EXCEEDS	11		9.1		15	
50 PERCENT EXCEEDS	2.3		2.2		3.9	
90 PERCENT EXCEEDS	2.0		1.6		2.2	

e Estimated



10172952 DUNN CREEK NEAR PARK VALLEY, UT

LOCATION.--Lat 41°51'31", long 113°19'35", in NW¹/₄NW¹/₄NW¹/₄ sec. 15, T. 13 N., R. 13 W., Box Elder County, Hydrologic Unit 16020308, on right bank 150 ft upstream from diversion structure, 200 ft downstream from confluence of left hand and right hand forks, and 2.9 mi north of Park Valley.

DRAINAGE AREA.--8.72 mi².

PERIOD OF RECORD.--May 1971 to September 1973, October 1976 to current year.

REVISED RECORDS.--WDR UT-99-1: 1998, daily values.

GAGE.--Water-stage recorder. Elevation of gage is 6,250 ft above NGVD of 1929, from topographic map. Prior to August 26, 1982 at site 110 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversion for flood-flows, located approximately 300 ft upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 150 ft³/s, May 28, 1983; minimum discharge, 0.14 ft³/s, Mar 17, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45 ft³/s, May 20, gage height, 2.23 ft; minimum daily discharge, 0.64 ft³/s, Sep 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.66	1.1	1.0	1.1	0.87	e0.80	4.7	6.3	24	5.7	1.7	0.81
2	0.66	1.1	1.0	1.1	0.87	0.94	5.6	6.4	24	5.4	2.0	0.78
3	0.66	1.1	1.0	1.1	0.87	0.94	5.4	6.8	23	5.3	2.0	0.70
4	0.66	1.1	1.0	1.0	0.87	0.94	5.2	6.9	20	5.0	1.7	0.69
5	0.66	1.1	1.0	1.0	0.87	0.92	5.7	6.6	18	4.7	1.6	0.71
6	0.66	1.1	1.1	1.0	0.87	0.87	5.8	7.0	17	4.5	1.5	1.5
7	0.66	1.0	e1.0	1.0	0.87	0.88	5.5	7.6	16	4.2	1.5	2.2
8	0.66	1.0	1.5	1.0	0.77	e0.80	5.2	8.5	14	3.8	1.5	1.2
9	0.72	0.98	1.4	1.0	e0.90	1.0	4.9	8.7	13	3.6	1.4	1.2
10	0.77	0.94	1.3	0.98	1.0	1.0	4.7	8.8	11	3.3	1.4	0.92
11	0.85	0.94	1.3	1.1	0.95	1.0	4.5	9.6	9.5	3.2	1.3	0.87
12	1.1	0.94	1.3	1.2	0.94	1.0	4.6	9.8	8.4	3.2	1.2	0.87
13	1.2	0.94	1.2	1.3	0.94	1.1	4.8	9.5	e7.8	3.0	1.3	0.84
14	1.1	0.94	1.2	1.1	0.94	1.0	5.1	11	e7.6	2.9	1.3	0.78
15	1.2	0.94	e1.0	1.1	0.94	1.0	5.7	13	7.9	2.9	1.2	0.75
16	1.2	0.94	1.3	1.0	0.93	1.0	5.4	15	8.0	2.9	1.1	0.73
17	1.2	0.92	1.2	1.0	0.88	1.0	5.3	16	7.7	2.8	1.1	1.0
18	1.2	0.87	1.2	1.0	0.94	1.0	4.9	20	7.9	2.8	1.1	1.0
19	1.2	0.87	1.2	0.98	0.94	1.0	4.0	26	7.9	2.6	1.1	e0.90
20	1.1	0.87	1.2	0.94	0.94	1.0	4.1	39	7.9	2.7	1.1	e0.80
21	1.1	0.87	1.2	0.94	0.92	1.4	4.0	32	8.3	2.4	1.1	0.74
22	1.1	1.2	1.2	e0.90	0.94	1.6	4.0	22	8.3	2.4	1.1	0.77
23	1.1	1.2	1.2	e0.98	1.0	2.0	4.2	16	8.2	2.3	1.0	0.75
24	1.1	0.88	1.2	0.97	1.0	1.9	4.2	13	7.5	2.2	0.93	0.67
25	1.1	0.90	1.2	0.87	0.93	1.8	4.1	12	7.3	2.3	0.91	0.64
26	1.0	1.1	1.1	0.87	1.00	1.6	4.7	12	7.1	2.3	0.88	0.66
27	1.0	1.1	1.1	0.87	0.99	1.7	5.1	12	7.0	2.1	0.87	0.69
28	1.0	1.0	1.1	0.87	0.98	2.2	5.3	15	6.8	2.0	0.85	0.72
29	1.0	1.0	1.1	0.82	---	2.5	5.7	16	6.5	1.9	0.84	0.71
30	1.0	1.0	1.1	0.87	---	3.1	6.0	19	6.2	1.8	0.82	0.73
31	1.5	---	1.1	0.87	---	3.7	---	23	---	1.7	0.83	---
TOTAL	30.12	29.94	36.0	30.83	25.86	42.69	148.4	434.5	333.8	97.9	38.23	26.33
MEAN	0.972	0.998	1.161	0.995	0.924	1.377	4.947	14.02	11.13	3.158	1.233	0.878
MAX	1.5	1.2	1.5	1.3	1.0	3.7	6.0	39	24	5.7	2.0	2.2
MIN	0.66	0.87	1.0	0.82	0.77	0.80	4.0	6.3	6.2	1.7	0.82	0.64
AC-FT	60	59	71	61	51	85	294	862	662	194	76	52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972-73, 1977-2002, BY WATER YEAR (WY)

MEAN	1.862	1.576	1.319	1.256	1.365	2.439	5.330	18.51	19.12	7.021	3.257	2.072
MAX	3.64	2.45	2.09	2.04	2.82	6.33	16.4	38.1	57.3	17.9	8.45	4.58
(WY)	1985	1983	1983	1980	1986	1986	1986	1997	1983	1983	1984	1984
MIN	0.77	0.75	0.64	0.59	0.62	0.85	1.15	3.40	3.13	1.25	0.62	0.61
(WY)	1993	1995	1995	1995	1995	1977	1991	1977	1992	1994	2001	1994

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1972-73, 1977-2002

ANNUAL TOTAL	1009.18	1274.60	
ANNUAL MEAN	2.765	3.492	
HIGHEST ANNUAL MEAN			5.441
LOWEST ANNUAL MEAN			12.0
HIGHEST DAILY MEAN			2.00
LOWEST DAILY MEAN	21	39	150
ANNUAL SEVEN-DAY MINIMUM	0.53	0.64	0.32
ANNUAL RUNOFF (AC-FT)	0.54	0.66	0.42
10 PERCENT EXCEEDS	7.8	8.3	13
50 PERCENT EXCEEDS	1.1	1.1	2.0
90 PERCENT EXCEEDS	0.66	0.84	0.94

e Estimated

10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT

LOCATION.--Lat 37°37'22", long 112°30'58", in SW¹/₄SE¹/₄NW¹/₄ sec. 3, T. 37 S., R. 6 W., Garfield County, Hydrologic Unit 16030001, on left bank 0.5 mi upstream from West Hatch ditch diversion, 2 mi upstream from Spring Hollow, 4.5 mi upstream from mouth, and 5 mi southwest of Hatch.

DRAINAGE AREA.--105 mi².

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,300 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. One small diversion for irrigation upstream of station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 838 ft³/s, Jun 19, 1983, gage height, 5.13 ft, from rating curve extended above 640 ft³/s; minimum daily, 1.1 ft³/s, Nov 20, 1977 and Aug 14, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 15	0445	*32	*1.38				

Minimum daily discharge, 1.1 ft³/s, Aug 14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e15	13	e7.5	e9.0	e6.0	e6.5	7.9	17	6.1	3.2	2.1	1.3
2	e15	13	e8.0	e9.0	e6.5	e6.5	9.0	17	6.3	2.7	2.2	1.3
3	e15	13	e8.5	e9.5	e6.5	e6.0	11	16	6.7	2.8	2.3	1.4
4	e14	13	e8.0	e10	e7.0	e7.0	13	15	6.9	3.0	2.0	1.3
5	14	12	e7.5	e9.0	e7.0	e7.5	14	14	6.4	2.8	1.9	1.2
6	15	12	e7.5	e10	e7.5	e8.0	16	13	6.0	2.8	1.9	2.5
7	14	12	e7.5	e11	e9.0	8.2	15	12	5.7	2.4	1.9	4.3
8	14	12	e7.5	e11	e10	e8.0	13	12	5.5	2.5	1.7	4.7
9	14	12	e8.0	e11	e9.0	e8.0	14	12	5.7	2.4	1.6	5.4
10	14	12	e7.5	e10	e8.0	e8.0	14	12	6.3	3.1	1.4	3.7
11	14	12	e8.0	e9.0	e9.0	8.0	17	12	6.4	2.9	1.3	3.3
12	14	12	e7.5	e10	e9.0	8.0	21	12	6.2	2.6	1.3	3.6
13	14	13	e7.0	e9.5	e8.0	7.9	24	11	5.8	2.3	1.2	3.1
14	14	13	e8.0	e9.5	e9.5	7.5	28	10	5.5	2.3	1.1	2.9
15	14	13	e7.5	e10	e9.0	e7.5	30	9.8	5.3	2.6	1.2	2.3
16	14	12	e6.5	e8.0	e10	e7.0	28	9.6	5.1	2.6	1.2	2.2
17	14	12	e7.0	e7.5	e10	e7.5	24	9.2	4.8	3.0	1.3	2.3
18	13	12	e7.5	e7.5	e10	e7.5	21	8.9	4.7	3.9	1.5	2.3
19	13	12	e8.0	e7.0	e9.0	e7.0	18	8.9	4.7	3.4	1.2	2.4
20	13	13	e9.0	e7.0	9.9	8.2	18	8.6	4.7	3.4	1.2	2.3
21	13	12	e8.5	e8.0	9.1	8.0	17	8.9	4.5	3.1	1.3	2.1
22	13	12	e8.0	e9.0	9.7	7.8	15	9.6	4.6	2.6	1.4	1.9
23	13	e11	e8.0	e7.0	8.5	7.6	14	9.1	4.5	2.4	1.3	1.8
24	14	e10	e7.0	e6.5	8.6	7.8	15	8.8	4.3	2.5	1.3	1.6
25	14	e9.5	e6.5	e7.0	e7.5	7.6	17	8.3	4.1	6.6	1.3	1.6
26	13	e9.0	e6.5	e8.0	e7.0	7.6	20	8.3	3.9	4.8	1.2	1.7
27	13	e7.0	e6.5	e10	e7.0	7.4	20	7.9	3.8	3.8	1.2	1.8
28	13	e7.0	e7.0	e10	e7.5	7.4	17	7.5	3.6	3.0	1.2	2.6
29	13	e7.0	e7.5	e8.0	---	7.2	15	7.0	3.5	2.4	1.2	5.5
30	13	e8.0	e8.0	e6.0	---	7.2	15	6.5	3.4	2.2	1.2	4.3
31	13	---	e9.0	e6.0	---	7.5	---	6.2	---	2.1	1.3	---
TOTAL	426	340.5	236.0	270.0	234.8	232.9	520.9	328.1	155.0	92.2	45.4	78.7
MEAN	13.74	11.35	7.613	8.710	8.386	7.513	17.36	10.58	5.167	2.974	1.465	2.623
MAX	15	13	9.0	11	10	8.2	30	17	6.9	6.6	2.3	5.5
MIN	13	7.0	6.5	6.0	6.0	6.0	7.9	6.2	3.4	2.1	1.1	1.2
AC-FT	845	675	468	536	466	462	1030	651	307	183	90	156

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

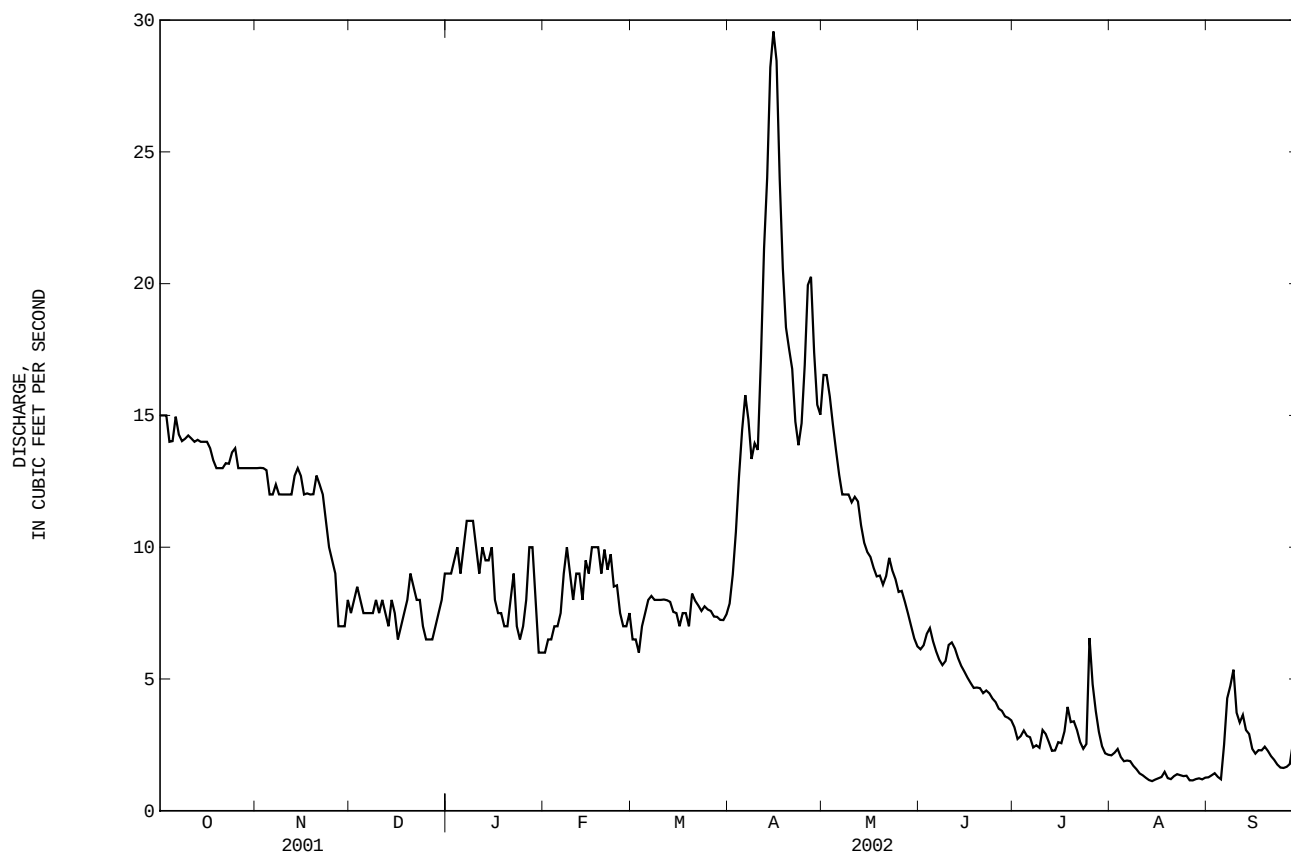
	20.90	17.36	13.65	11.57	11.33	12.88	28.66	172.4	166.3	58.06	32.15	25.05
MEAN	20.90	17.36	13.65	11.57	11.33	12.88	28.66	172.4	166.3	58.06	32.15	25.05
MAX	56.8	44.5	34.9	24.2	23.0	24.7	75.4	373	616	284	105	65.1
(WY)	1984	1984	1984	1984	1973	1973	1985	1969	1983	1983	1983	1983
MIN	4.35	3.98	4.39	2.91	3.36	4.28	6.19	9.69	5.17	2.97	1.46	2.62
(WY)	1978	1978	1978	1978	1978	1991	1991	1977	2002	2002	2002	2002

SEVIER LAKE BASIN

10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1965 - 2002	
ANNUAL TOTAL	16962.0		2960.5		47.67	
ANNUAL MEAN	46.47		8.111		112	
HIGHEST ANNUAL MEAN					8.11	
LOWEST ANNUAL MEAN					720	
HIGHEST DAILY MEAN	475	May 18	30	Apr 15	1.1	Nov 20 1977
LOWEST DAILY MEAN	5.0	Feb 2	1.1	Aug 14	1.2	Aug 11 2002
ANNUAL SEVEN-DAY MINIMUM	5.7	Jan 28	1.2	Aug 11		
ANNUAL RUNOFF (AC-FT)	33640		5870		34540	
10 PERCENT EXCEEDS	132		14		113	
50 PERCENT EXCEEDS	14		7.6		18	
90 PERCENT EXCEEDS	6.0		1.9		7.2	

e Estimated



10174500 SEVIER RIVER AT HATCH, UT

LOCATION.--Lat 37°39'04", long 112°25'46", in SW¹/₄SW¹/₄NW¹/₄ sec. 28, T. 36 S., R. 5 W., Garfield County, Hydrologic Unit 16030001, on right bank 15 ft upstream of county road bridge, 0.2 mi east of Hatch, and 2.8 mi downstream from Mammoth Creek.

DRAINAGE AREA.--340 mi².

PERIOD OF RECORD.--June 1911 to September 1928, June 1939 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Hatchtown" 1911 and as "near Hatch" 1912.

REVISED RECORDS.--WSP 960: 1939-40. WSP 1284: 1916. WSP 1564: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage since November 9, 1995. Elevation of gage is 6,870 ft above NGVD of 1929, from river-profile map. Prior to August 23, 191 at sites about 2 mi upstream. August 23, 1914 to August 22, 1978 at various sites within 300 feet of current site, different datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. Some diversions for irrigation upstream of station. No regulation since Hatchtown Dam failed in 1914.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred May 25, 1914, when Hatchtown Dam failed; maximum recorded, 1,490 ft³/s, May 26, 1922, gage height, 5.25 ft, datum then in use; minimum daily, 10 ft³/s, for several days in 1912 when water was stored in Hatchtown Reservoir. Minimum natural daily discharge, 21 ft³/s, Sep 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 9	0130	*61	*0.88				

Minimum daily discharge, 29 ft³/s, Aug 15, 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	58	e55	50	e40	49	45	42	36	32	32	31
2	53	57	58	50	e42	e46	43	44	34	32	32	32
3	53	57	57	50	e42	e47	45	47	36	33	32	32
4	53	57	60	50	e42	e47	48	46	37	32	32	32
5	52	58	e57	e50	e43	49	50	44	37	32	31	32
6	55	57	e56	49	e43	49	50	43	34	31	32	36
7	54	58	56	50	e44	50	50	42	33	31	32	42
8	55	58	e55	50	48	51	48	42	33	31	31	40
9	56	58	e54	51	e46	e50	48	41	33	32	31	36
10	54	58	e54	51	e44	50	42	41	34	32	31	38
11	54	57	54	48	48	49	45	41	34	32	31	38
12	55	57	e53	49	48	49	47	41	34	32	31	38
13	56	58	e52	48	47	50	50	41	33	32	30	36
14	55	57	e53	e48	49	49	53	40	33	32	31	35
15	55	57	e52	48	49	47	55	39	33	32	29	35
16	55	57	e52	e46	50	48	56	38	32	33	29	34
17	55	56	e51	e46	50	48	52	38	33	34	30	34
18	56	56	e52	e44	50	48	49	38	32	35	30	34
19	55	56	e53	42	50	48	48	38	33	36	31	34
20	54	56	e55	42	51	49	46	38	32	35	31	34
21	53	57	e54	44	52	49	47	38	32	33	30	33
22	54	57	e52	48	52	49	47	39	33	32	31	32
23	54	57	e50	e40	52	49	45	39	33	32	31	34
24	57	e56	e46	e42	52	48	43	40	33	33	32	34
25	60	e56	e46	e42	50	48	44	39	32	34	31	33
26	60	e55	e46	e43	49	47	46	37	32	34	31	33
27	59	e54	e48	45	49	47	48	39	32	32	31	33
28	59	e54	e50	48	49	46	44	36	32	32	32	34
29	58	53	e50	e44	---	44	42	36	32	32	31	39
30	57	56	50	e40	---	44	41	36	32	32	31	37
31	59	---	50	e39	---	44	---	36	---	32	30	---
TOTAL	1718	1698	1631	1437	1331	1488	1417	1239	999	1009	960	1045
MEAN	55.42	56.60	52.61	46.35	47.54	48.00	47.23	39.97	33.30	32.55	30.97	34.83
MAX	60	58	60	51	52	51	56	47	37	36	32	42
MIN	52	53	46	39	40	44	41	36	32	31	29	31
AC-FT	3410	3370	3240	2850	2640	2950	2810	2460	1980	2000	1900	2070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-28, 1940-2002, BY WATER YEAR (WY)

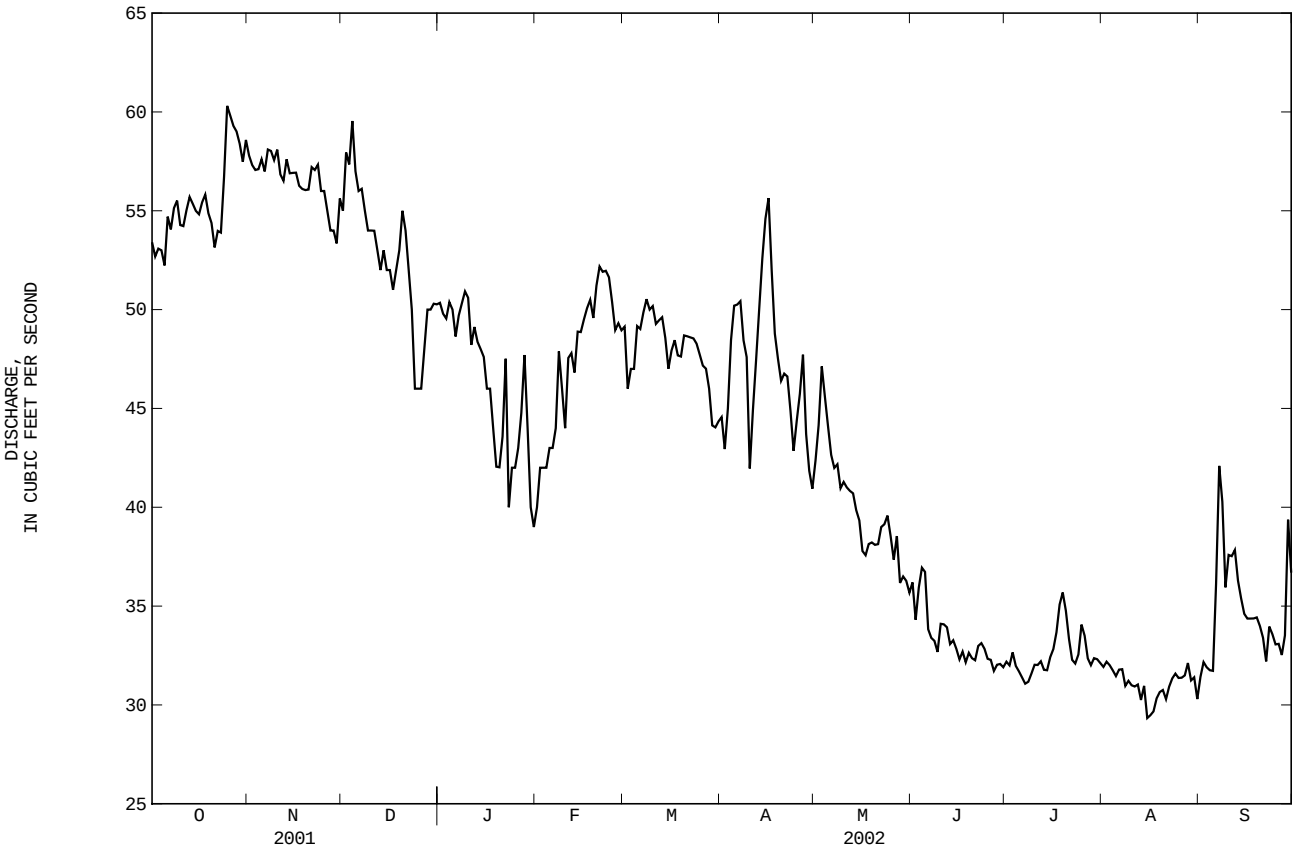
	MEAN	76.11	74.07	68.02	62.41	65.68	75.39	126.9	334.3	260.5	118.6	89.50	78.89
MAX	246	149	150	128	130	159	465	1012	1071	430	228	167	
(WY)	1917	1917	1922	1923	1922	1916	1916	1922	1983	1983	1983	1922	
MIN	36.8	36.9	36.2	37.1	36.6	38.5	44.0	40.0	33.3	32.5	30.4	28.3	
(WY)	1978	1978	1957	1991	1978	1957	1957	2002	2002	2002	1977	1977	

SEVIER LAKE BASIN

10174500 SEVIER RIVER AT HATCH, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1915-28, 1940-2002	
ANNUAL TOTAL	35048		15972		119.7	
ANNUAL MEAN	96.02		43.76		313	
HIGHEST ANNUAL MEAN					42.6	
LOWEST ANNUAL MEAN					1430	
HIGHEST DAILY MEAN	514	May 17	60	Oct 25	23	May 26 1922
LOWEST DAILY MEAN	38	Feb 2	29	Aug 15	0.00	Jul 31 1927
ANNUAL SEVEN-DAY MINIMUM	44	Jan 17	30	Aug 12	23	Aug 30 1977
ANNUAL RUNOFF (AC-FT)	69520		31680		86700	
10 PERCENT EXCEEDS	192		56		229	
50 PERCENT EXCEEDS	60		45		75	
90 PERCENT EXCEEDS	50		32		45	

e Estimated



10183500 SEVIER RIVER NEAR KINGSTON, UT

LOCATION.--Lat 38°12'22", long 112°12'25", in SE¹/₄NE¹/₄NW¹/₄ sec. 16, T. 30 S., R. 3 W., Piute County, Hydrologic Unit 16030001, on left bank 1,000 ft upstream from bridge on State Highway 62, 1.1 mi west of Kingston, and 1.9 mi upstream of East Fork Sevier River.

DRAINAGE AREA.--1,131 mi².

PERIOD OF RECORD.--June 1914 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage since July 10, 2000. Concrete control since September 20, 1918. Elevation of gage is 5,980 ft above NGVD of 1929, from river-profile map. Prior to September 20, 1918, at site 1 mi downstream at different datum.

REMARKS.--Records good. Many irrigation diversions upstream of station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,000 ft³/s (including estimated flow of 360 ft³/s in overflow channel bypassing station), Mar 4, 1938, gage height, 5.20 ft, from rating curve extended above 600 ft³/s; minimum daily discharge, 1.6 ft³/s, Jul 24, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 209 ft³/s, Jan 24, gage height, 1.62 ft; minimum daily discharge, 7.0 ft³/s, Aug 14, 15, 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	46	143	152	127	122	30	15	11	9.7	8.6	7.7
2	15	49	149	150	135	123	17	15	10	9.6	9.3	7.5
3	15	50	154	149	138	123	14	15	11	10	10	7.6
4	15	55	164	148	131	125	15	15	11	9.4	9.6	7.5
5	15	59	156	142	130	128	20	15	11	9.0	8.9	7.9
6	16	57	147	142	131	132	19	15	11	8.8	9.0	9.4
7	17	53	149	144	131	130	16	15	11	9.0	8.8	11
8	20	55	145	150	135	131	16	15	10	8.7	8.3	11
9	22	54	142	156	131	125	17	14	9.9	8.5	8.2	10
10	21	64	143	157	131	125	17	15	10	8.3	9.2	9.5
11	21	64	148	151	132	128	17	16	10	8.3	8.0	11
12	22	69	138	147	135	125	18	15	10	7.9	7.9	11
13	24	73	130	145	132	125	17	12	10	7.5	7.4	10
14	25	78	138	140	138	122	15	12	10	7.8	7.0	10
15	25	86	148	137	138	119	16	12	10	8.6	7.0	9.4
16	31	122	135	134	141	116	16	12	10	8.9	7.0	9.4
17	30	117	136	132	141	117	16	11	10	9.1	7.1	10
18	28	117	138	130	144	118	18	11	10	9.6	7.1	9.8
19	31	123	131	123	142	107	18	13	11	9.4	7.4	9.7
20	35	134	136	131	141	105	19	11	11	8.9	7.6	9.5
21	37	141	133	134	138	107	18	11	11	8.4	7.2	9.3
22	37	141	133	141	139	102	17	12	11	8.8	7.1	9.1
23	36	149	134	132	140	100	16	12	11	9.6	7.2	9.0
24	35	147	135	126	142	96	16	13	11	10	7.5	9.1
25	34	148	131	134	132	85	16	13	10	10	7.5	9.3
26	36	155	128	138	126	82	16	12	10	9.9	7.3	9.7
27	36	145	142	139	123	81	16	12	10	9.1	7.4	9.2
28	35	141	146	141	121	85	16	11	10	8.5	7.5	9.4
29	37	138	147	140	---	88	15	11	10	8.3	7.5	12
30	38	142	151	133	---	84	15	11	9.6	8.4	7.6	11
31	45	---	153	132	---	66	---	11	---	8.4	7.7	---
TOTAL	851	2972	4403	4350	3765	3422	512	403	311.5	276.4	244.9	286.0
MEAN	27.45	99.07	142.0	140.3	134.5	110.4	17.07	13.00	10.38	8.916	7.900	9.533
MAX	45	155	164	157	144	132	30	16	11	10	10	12
MIN	15	46	128	123	121	66	14	11	9.6	7.5	7.0	7.5
AC-FT	1690	5890	8730	8630	7470	6790	1020	799	618	548	486	567

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2002, BY WATER YEAR (WY)

	MEAN	83.86	132.3	146.1	135.5	155.8	170.6	150.9	221.0	153.0	47.74	50.83	60.33
MAX	319	237	252	218	259	330	507	1154	1140	321	315	232	
(WY)	1917	1984	1984	1984	1924	1921	1916	1922	1983	1995	1916	1921	
MIN	6.90	29.6	34.2	45.0	74.7	65.5	16.3	8.73	7.44	4.89	5.36	7.01	
(WY)	1961	1932	1932	1932	1932	1932	1957	1963	1959	1974	1971	1960	1960

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1915 - 2002

ANNUAL TOTAL	34337	21796.8	
ANNUAL MEAN	94.07	59.72	125.4
HIGHEST ANNUAL MEAN			359
LOWEST ANNUAL MEAN			49.4
HIGHEST DAILY MEAN	453	May 19	1560
LOWEST DAILY MEAN	11	Aug 2	1.6
ANNUAL SEVEN-DAY MINIMUM	14	Jul 28	2.9
ANNUAL RUNOFF (AC-FT)	68110	43230	90870
10 PERCENT EXCEEDS	171	142	224
50 PERCENT EXCEEDS	79	18	112
90 PERCENT EXCEEDS	17	8.4	12

10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT

LOCATION.--Lat 38°11'47", long 112°08'49", in NE¹/₄SE¹/₄SW¹/₄ sec. 13, T. 30 S., R. 3 W., Piute County, Hydrologic Unit 16030002, on right bank about 2,200 ft upstream from bridge on State Highway 22, 2.3 mi east of Kingston, 4.7 mi upstream from mouth, and 10 mi downstream from Otter Creek Reservoir.

DRAINAGE AREA.--1,207 mi².

PERIOD OF RECORD.--March 1913 to current year.

REVISED RECORDS.--WSP 750: 1931-32. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage since August 1, 2001. Elevation of gage is 6,160 ft above NGVD of 1929, from river-profile map. Prior to April 29, 1914, staff gage at site 0.8 mi upstream. April 29, 1914 to June 2, 1939, water-stage recorder 4,700 ft downstream. June 3, 1939 to July 29, 1970, water-stage recorder 3,200 ft downstream. Prior to July 29, 1970 at different datums. July 30, 1970 to July 12, 1983, water-stage recorder 760 ft downstream and July 12, 1983 to April 6, 1999, about 700 ft downstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream for irrigation and storage in Otter Creek Reservoir (capacity 52,700 acre-feet) 10 mi upstream; some flow regulated by reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft³/s, May 12, 1941, gage height, 5.05 ft, from rating curve extended above 1,500 ft³/s, datum then in use; minimum, 1.0 ft³/s, Jan 25, 1976, gage height, 0.52 ft, datum then in use, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 305 ft³/s, May 30, Jun 4, gage height, 5.45 ft; minimum daily discharge, 9.6 ft³/s, Nov 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	16	e16	e14	e16	17	17	141	295	139	37	50
2	14	15	e15	e13	e17	e17	17	171	293	139	36	39
3	12	15	e14	e14	e16	e17	15	170	294	140	31	29
4	12	14	e11	e12	e17	e17	16	260	299	139	41	27
5	12	13	e12	e13	e18	17	19	262	299	141	35	26
6	13	11	e12	e13	e18	17	21	253	296	139	35	29
7	16	12	e12	e14	e17	17	31	249	293	137	34	35
8	18	14	e12	14	e15	18	60	260	289	135	33	35
9	21	14	e13	15	e16	17	58	277	296	134	33	34
10	20	16	e13	15	e17	17	53	254	293	135	33	26
11	17	16	e13	15	e17	17	53	251	291	135	34	27
12	18	12	e12	14	e17	17	52	253	291	135	40	29
13	17	9.6	e14	14	e16	17	50	260	280	135	123	22
14	17	14	e13	e14	e15	17	50	260	276	75	179	20
15	17	16	e12	e14	15	17	51	258	274	49	193	25
16	17	13	e11	e14	16	17	58	258	276	49	198	25
17	17	13	e12	e13	16	17	64	254	275	49	187	28
18	17	13	e12	e15	16	18	59	251	273	50	181	31
19	17	13	e16	e14	16	18	57	250	270	51	180	31
20	17	13	e15	e16	16	18	60	244	176	42	191	28
21	17	14	e13	e15	17	18	63	247	59	33	185	24
22	19	13	e12	e13	17	18	61	245	54	35	178	23
23	18	15	e11	e15	17	18	59	254	48	36	154	22
24	18	14	e11	e16	17	18	58	267	44	40	138	23
25	17	14	e11	e17	17	18	58	282	48	49	76	22
26	17	16	e11	e16	17	18	102	283	48	41	67	24
27	17	e17	e13	e15	e17	17	137	288	45	40	39	24
28	16	e15	e14	e14	17	17	133	283	41	45	36	22
29	15	e16	e14	e13	---	17	129	283	77	50	65	28
30	15	e15	e14	e13	---	17	132	300	133	39	78	31
31	15	---	e14	e15	---	17	---	298	---	37	61	---
TOTAL	521	421.6	398	442	463	537	1793	7866	6226	2593	2931	839
MEAN	16.81	14.05	12.84	14.26	16.54	17.32	59.77	253.7	207.5	83.65	94.55	27.97
MAX	28	17	16	17	18	18	137	300	299	141	198	50
MIN	12	9.6	11	12	15	17	15	141	41	33	31	20
AC-FT	1030	836	789	877	918	1070	3560	15600	12350	5140	5810	1660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2002, BY WATER YEAR (WY)

	MEAN	36.25	26.73	22.04	21.80	26.16	39.38	74.71	165.1	149.8	166.2	134.6	83.08
MAX	241	151	128	156	146	171	398	1109	551	365	335	242	
(WY)	1923	1985	1939	1939	1986	1983	1942	1922	1983	1915	1999	1917	
MIN	9.12	8.97	8.25	7.00	7.19	11.7	15.0	28.4	28.0	31.3	18.0	18.4	
(WY)	1962	1965	1973	1960	1977	1956	1935	1945	1957	1936	1934	1934	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1914 - 2002

ANNUAL TOTAL	21537.6	25030.6	
ANNUAL MEAN	59.01	68.58	79.17
HIGHEST ANNUAL MEAN			201
LOWEST ANNUAL MEAN			33.5
HIGHEST DAILY MEAN	261	300	1740
LOWEST DAILY MEAN	9.0	9.6	5.5
ANNUAL SEVEN-DAY MINIMUM	9.7	12	5.5
ANNUAL RUNOFF (AC-FT)	42720	49650	57350
10 PERCENT EXCEEDS	213	254	209
50 PERCENT EXCEEDS	19	19	34
90 PERCENT EXCEEDS	12	13	13

e Estimated

10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UT

LOCATION.--Lat 38°19'41", long 112°11'13", in NW¹/₄SW¹/₄SE¹/₄ sec. 34, T. 28 S., R. 3 W., Piute County, Hydrologic Unit 16030003, on left bank 0.25 mi downstream of Piute Dam and 8.5 mi south of Marysvale.

DRAINAGE AREA.--2,441 mi².

PERIOD OF RECORD.--May to August 1911, May 1912 to current year.

GAGE.--Water-stage recorder. Concrete control since April 23, 1979. Elevation of gage is 5,920 ft above NGVD of 1929, from topographic map. Prior to May 4, 1912 nonrecording gage near present site at different datum. May 4, 1912 to March 31, 1935 water-stage recorder at site 0.1 mi downstream at different datum. April 1, 1935 to April 22, 1979 water-stage recorder at site 0.25 mi downstream. Datum lowered 0.2 ft April 7, 1936; lowered additional 0.5 ft February 26, 1970. April 23, 1979 to September 30, 1985 at datum 10.00 ft higher.

REMARKS.-- Records good except for estimated daily discharges, which are poor. Flow regulated by Piute Reservoir, capacity about 71,800 acre-feet.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft³/s, May 23, 24, 1922, gage height, 4.45 ft, site and datum then in use; practically no flow at times when reservoir gates are closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 657 ft³/s, May 5, gage height, 12.50 ft; minimum daily discharge, 5.4 ft³/s, on several days in Dec and Jan.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	19	5.4	5.7	5.7	6.4	9.6	556	154	524	288	90
2	31	18	5.4	5.7	5.8	6.4	40	567	128	514	288	78
3	30	18	5.4	5.7	6.1	6.4	28	586	131	464	299	67
4	30	18	5.4	5.7	6.1	6.6	20	617	158	439	256	61
5	30	18	e5.4	5.7	6.1	6.8	19	635	130	436	278	60
6	30	18	e6.0	5.6	6.1	6.6	37	628	117	430	304	78
7	30	17	e6.0	5.7	6.1	6.1	36	624	160	327	301	76
8	30	17	6.4	5.5	6.2	5.9	36	623	215	276	281	85
9	34	17	6.4	5.5	6.4	6.0	35	620	225	276	303	70
10	34	17	6.1	5.5	6.4	5.8	35	583	214	214	360	60
11	31	17	e6.0	5.4	6.4	5.8	36	564	213	300	342	65
12	30	17	e5.8	5.4	6.4	5.8	43	529	248	299	317	74
13	30	16	e5.7	5.4	6.5	5.7	46	503	338	253	351	80
14	48	17	e5.7	5.5	6.8	5.8	47	495	373	301	351	64
15	48	20	e5.7	5.4	6.9	115	46	469	424	315	346	62
16	58	20	e5.7	5.4	7.2	233	63	406	478	328	341	63
17	53	14	e5.7	5.4	7.5	238	107	352	461	312	335	68
18	53	16	e5.7	5.4	7.5	240	151	360	414	310	328	53
19	65	15	5.7	5.5	7.5	328	180	346	455	291	321	41
20	60	15	5.7	5.7	7.5	338	182	357	494	292	315	34
21	59	15	5.7	5.7	7.5	337	187	362	516	301	306	52
22	51	15	5.7	5.4	7.5	337	204	326	499	282	278	61
23	51	15	5.7	5.4	7.2	336	239	266	498	267	256	42
24	43	15	5.7	5.5	6.8	334	277	264	534	349	227	46
25	43	13	5.7	5.7	6.8	334	322	270	570	344	223	43
26	43	7.0	5.6	5.7	6.8	135	380	252	584	318	214	49
27	43	6.4	5.4	5.6	6.8	22	449	238	575	311	196	45
28	37	6.3	5.5	5.5	6.7	7.7	486	221	533	278	165	58
29	29	6.0	5.4	5.7	---	7.3	474	213	503	256	69	71
30	20	5.6	5.6	5.7	---	7.1	514	180	496	256	66	45
31	19	---	5.7	5.7	---	6.9	---	195	---	271	93	---
TOTAL	1246	448.3	177.0	172.4	187.3	3494.3	4728.6	13207	10838	10134	8428	1841
MEAN	40.19	14.94	5.710	5.561	6.689	112.7	157.6	426.0	361.3	326.9	271.9	61.37
MAX	65	20	6.4	5.7	7.5	338	514	635	584	524	360	90
MIN	19	5.6	5.4	5.4	5.7	5.7	9.6	180	117	214	69	34
AC-FT	2470	889	351	342	372	6930	9380	26200	21500	20100	16720	3650

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

	MEAN	124.2	78.63	48.74	41.56	71.06	97.36	246.6	432.8	384.4	446.7	372.2	230.1
MAX	411	541	460	383	597	417	745	2145	1862	718	730	594	
(WY)	1923	1917	1985	1984	1984	1983	1942	1922	1983	1922	1920	1914	
MIN	14.3	3.13	2.01	1.32	1.76	2.71	6.09	41.9	14.6	80.0	48.2	28.2	
(WY)	1987	2001	2001	1918	1951	1924	1952	1957	1957	1934	1934	1956	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1913 - 2002

ANNUAL TOTAL	60459.5	54901.9	
ANNUAL MEAN	165.6	150.4	211.9
HIGHEST ANNUAL MEAN			568
LOWEST ANNUAL MEAN			100
HIGHEST DAILY MEAN	600	635	2530
LOWEST DAILY MEAN	2.1	5.4	0.00
ANNUAL SEVEN-DAY MINIMUM	2.1	5.4	0.50
ANNUAL RUNOFF (AC-FT)	119900	108900	153500
10 PERCENT EXCEEDS	519	443	533
50 PERCENT EXCEEDS	43	49	130
90 PERCENT EXCEEDS	2.5	5.7	4.9

e Estimated

10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UT

LOCATION.--Lat 38°34'45", long 112°17'22", in NW¹/₄NW¹/₄SW¹/₄ sec. 31, T. 25 S., R. 4 W., Sevier County, Hydrologic Unit 16030003, on left bank on State Highway 4, 1.8 mi west of Sevier, 2.3 mi upstream from mouth, and 17.2 mi southwest of Richfield.

DRAINAGE AREA.--164 mi².

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,680 ft above NGVD of 1929, from topographic map. Prior to November 5, 1993, 200 ft upstream at datum 3.0 ft higher.

REMARKS.--Records good. Slight regulation from several small reservoirs at headwaters, total combined capacity about 1,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 906 ft³/s, Aug 26, 1988, gage height, 2.40 ft, datum then in use, from rating curve extended above 400 ft³/s; minimum discharge, 0.88 ft³/s, Jan 17, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40, May 21, Jun 1; minimum discharge, 0.88, Jan 17.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	13	8.7	13	8.6	11	22	20	36	7.4	5.6	3.8
2	10	12	16	12	9.3	6.4	22	20	36	7.0	6.3	3.7
3	10	12	15	12	9.0	8.9	23	20	33	7.8	7.4	3.8
4	10	12	14	12	8.9	11	22	20	30	8.1	7.7	3.9
5	11	12	8.7	8.3	8.8	12	22	20	27	7.4	6.1	3.4
6	11	13	13	13	9.7	12	22	20	27	7.0	5.9	4.4
7	12	12	14	12	10	13	19	22	27	7.2	5.8	6.1
8	12	13	5.3	12	13	12	18	23	25	6.3	5.2	7.1
9	16	12	9.6	14	11	8.7	17	24	26	5.8	5.1	7.0
10	14	12	12	13	8.9	13	18	24	25	5.8	4.9	6.7
11	13	12	12	9.3	10	12	19	24	23	5.8	4.6	7.8
12	14	12	8.6	12	11	12	18	24	20	5.7	3.9	11
13	13	13	4.2	11	9.4	13	20	22	19	5.1	3.9	9.6
14	13	13	10	5.6	13	11	19	22	18	4.8	3.9	7.8
15	12	12	9.9	12	10	8.6	20	24	17	5.3	3.9	6.9
16	12	12	5.5	5.8	12	12	21	26	17	6.7	4.3	6.8
17	12	12	9.0	4.4	12	11	19	28	16	7.8	9.5	9.9
18	12	12	11	5.4	11	11	18	31	15	8.4	5.3	8.6
19	12	12	9.8	6.0	10	9.6	18	34	15	7.9	4.2	9.6
20	12	10	11	8.5	12	12	19	35	14	6.8	3.8	8.2
21	12	12	12	10	12	14	18	37	13	5.9	4.0	7.6
22	12	13	11	13	11	15	20	35	13	5.7	4.0	7.0
23	12	13	8.5	7.8	12	16	20	32	12	6.0	4.3	6.9
24	12	9.4	5.8	7.8	12	14	17	28	11	8.0	4.2	6.7
25	12	14	5.7	10	11	13	17	26	10	9.0	3.8	6.5
26	12	8.4	6.3	13	8.5	13	18	24	9.7	11	3.5	6.3
27	12	13	9.6	13	11	14	20	24	9.5	11	3.5	6.3
28	12	8.3	12	12	10	16	20	25	8.8	7.6	3.8	6.0
29	11	13	13	11	---	18	19	27	8.2	6.9	3.5	8.8
30	11	13	13	6.5	---	19	19	31	7.9	6.4	3.7	10
31	14	---	13	6.9	---	20	---	33	---	5.8	3.8	---
TOTAL	373	360.1	317.2	312.3	295.1	392.2	584	805	569.1	217.4	149.4	208.2
MEAN	12.03	12.00	10.23	10.07	10.54	12.65	19.47	25.97	18.97	7.013	4.819	6.940
MAX	16	14	16	14	13	20	23	37	36	11	9.5	11
MIN	10	8.3	4.2	4.4	8.5	6.4	17	20	7.9	4.8	3.5	3.4
AC-FT	740	714	629	619	585	778	1160	1600	1130	431	296	413

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2002, BY WATER YEAR (WY)

MEAN	13.47	12.62	11.01	10.89	13.55	22.85	53.49	128.8	105.9	38.42	18.04	13.75
MAX	26.8	21.6	19.4	21.4	35.3	48.5	197	481	322	135	51.4	30.5
(WY)	1985	1985	1967	1984	1984	1986	1984	1984	1983	1995	1984	1984
MIN	6.62	7.30	4.29	4.50	5.86	10.1	10.9	21.9	19.0	7.01	4.74	4.20
(WY)	1960	1978	1978	1978	1978	1964	1963	1977	2002	2002	1977	1959

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1958 - 2002

ANNUAL TOTAL	9818.2	4583.0	
ANNUAL MEAN	26.90	12.56	
HIGHEST ANNUAL MEAN			36.97
LOWEST ANNUAL MEAN			96.2
HIGHEST DAILY MEAN	143	May 18	37
LOWEST DAILY MEAN	4.0	Jan 18	3.4
ANNUAL SEVEN-DAY MINIMUM	6.5	Jan 2	3.7
ANNUAL RUNOFF (AC-FT)	19470		9090
10 PERCENT EXCEEDS	68		22
50 PERCENT EXCEEDS	13		12
90 PERCENT EXCEEDS	9.0		5.5
			7.8

10205000 SEVIER RIVER NEAR SIGURD, UT

LOCATION.--Lat 38°52'24", long 111°57'12", in SW¹/₄NE¹/₄SW¹/₄ sec. 19, T. 22 S., R. 1 W., Sevier County, Hydrologic Unit 16030003, on left bank 200 ft downstream from county road bridge, 0.5 mi downstream from Rocky Ford Dam, 2.3 mi northeast of Sigurd, and 5.0 mi upstream from Lost Creek.

DRAINAGE AREA.--3,375 mi².

PERIOD OF RECORD.--July to September 1912, July 1914 to current year. Prior to October 1938, published as "near Vermillion."

REVISED RECORDS.--WSP 1394: 1927-28, 1947.

GAGE.--Water-stage recorder. Elevation of gage is 5,180 ft above NGVD of 1929, from topographic map. July 15, to September 23, 1912, nonrecording gage 0.3 mi downstream at different datum. July 31, 1914 to April 19, 1917, nonrecording gage and April 20, 1917 to September 30, 1934, water-stage recorder at present site at datum 1.5 ft higher. October 1, 1934 to October 1, 1990, at datum 3.5 ft higher.

REMARKS.--Records good except for discharges less than 5 ft³/s and estimated daily discharges, which are poor. Flow regulated by Rocky Ford Reservoir (capacity 1,700 acre-feet) 0.5 mi upstream. During irrigation season practically entire flow through Rocky Ford Dam is diverted above station for irrigation below station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft³/s, May 30, 1922, gage height, 9.6 ft, present datum, from rating curve extended above 600 ft³/s on basis of maximum discharge for other Sevier River stations; practically no flow (seepage only) at times when Rocky Ford Reservoir gates are closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 516 ft³/s, Mar 21, gage height, 6.74 ft; minimum daily discharge, 1.1 ft³/s, Aug 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	72	97	125	99	118	52	17	13	2.3	2.7	67
2	8.3	72	104	123	112	113	30	20	13	1.6	2.2	88
3	10	70	108	122	113	108	20	27	14	1.5	2.1	95
4	12	e69	106	122	113	50	9.1	24	22	1.5	2.0	80
5	11	e69	110	120	114	20	7.0	19	30	1.5	2.3	62
6	10	e68	107	117	114	21	5.9	14	24	1.6	2.6	65
7	9.5	e67	109	125	115	22	5.1	14	19	1.6	2.6	73
8	11	e67	109	127	117	23	3.8	14	9.9	1.7	2.9	81
9	12	e66	109	129	118	24	3.0	15	4.7	1.8	2.8	90
10	18	e68	104	133	112	27	2.9	14	5.3	1.7	2.7	93
11	19	e70	107	130	113	67	2.8	18	11	1.8	2.5	92
12	20	e78	107	125	117	98	2.7	28	13	1.8	2.4	90
13	28	e82	93	123	119	109	3.6	28	13	1.7	2.3	97
14	45	e95	96	122	118	111	2.4	29	12	1.5	2.2	102
15	54	e93	105	117	126	112	2.2	25	13	1.6	2.0	110
16	70	e100	96	114	120	122	2.3	21	13	1.7	1.9	121
17	73	e97	83	107	125	222	2.3	21	5.7	1.7	1.8	110
18	68	e97	122	108	126	310	2.3	28	2.3	2.5	1.7	109
19	69	e96	119	97	124	306	2.6	39	2.9	2.7	1.5	116
20	70	e95	114	117	125	301	6.2	45	2.8	4.1	1.4	115
21	73	e96	119	112	130	367	4.4	28	3.6	14	1.2	97
22	78	e97	116	110	129	399	2.2	13	3.8	10	1.1	85
23	75	e105	114	102	130	356	2.2	17	6.1	3.5	1.2	96
24	73	e99	104	95	132	358	2.1	23	7.2	1.5	1.2	105
25	73	e96	101	105	127	345	2.4	19	6.9	1.5	1.2	94
26	73	e98	101	123	120	319	4.4	16	5.5	9.9	1.2	90
27	79	100	113	119	115	346	7.4	19	4.5	16	1.3	89
28	80	107	127	116	119	173	17	27	3.9	16	2.6	92
29	80	106	125	114	---	83	15	26	3.7	18	8.5	97
30	75	109	127	108	---	83	13	20	3.5	17	13	126
31	79	---	126	95	---	74	---	16	---	11	31	---
TOTAL	1464.1	2604	3378	3602	3342	5187	238.3	684	292.3	156.3	108.1	2827
MEAN	47.23	86.80	109.0	116.2	119.4	167.3	7.943	22.06	9.743	5.042	3.487	94.23
MAX	80	109	127	133	132	399	52	45	30	18	31	126
MIN	8.3	66	83	95	99	20	2.1	13	2.3	1.5	1.1	62
AC-FT	2900	5170	6700	7140	6630	10290	473	1360	580	310	214	5610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2002, BY WATER YEAR (WY)

	MEAN	89.36	118.5	136.9	141.9	170.6	171.6	127.9	129.9	132.4	35.18	35.02	54.11
MAX	304	700	591	505	693	634	836	1468	2002	367	192	335	
(WY)	1917	1917	1985	1984	1984	1984	1984	1922	1983	1983	1920	1985	
MIN	15.0	34.6	35.4	45.4	57.9	42.7	4.44	2.87	1.47	0.88	1.06	0.59	
(WY)	1952	1957	1957	1964	1935	1935	1972	1925	1953	1954	1963	1956	

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1915 - 2002	
ANNUAL TOTAL	21747.1		23883.1		112.5	
ANNUAL MEAN	59.58		65.43		482	
HIGHEST ANNUAL MEAN					38.7	
LOWEST ANNUAL MEAN					1983	
HIGHEST DAILY MEAN	201	Sep 1	399	Mar 22	2370	May 30 1922
LOWEST DAILY MEAN	1.9	May 2	1.1	Aug 22	0.00	Jul 16 1933
ANNUAL SEVEN-DAY MINIMUM	2.4	Apr 26	1.2	Aug 21	0.00	Jul 16 1933
ANNUAL RUNOFF (AC-FT)	43140		47370		81490	
10 PERCENT EXCEEDS	124		123		245	
50 PERCENT EXCEEDS	61		68		79	
90 PERCENT EXCEEDS	3.8		2.2		2.8	

e Estimated

LOCATION.--Lat 38°54'43", long 111°31'47", in SE¹/₄SW¹/₄NW¹/₄ sec. 12, T. 22 S., R. 3 E., Sevier County, Hydrologic Unit 16030003, Fish Lake National Forest, on right bank 0.1 mi downstream of Skumpah Creek and 2.5 mi upstream from Natural Resources Conservation Service retention dam, 15.3 mi west of Emary, and 18.4 mi east of Salina.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Crest-stage gage since Aug 21, 2000. Elevation of gage is 7,000 ft above NGVD of 1929, from topographic map. Prior to June 9, 1971, at site 300 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion above station. Slight regulation from small reservoirs at headwaters.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 740 ft³/s, Jul 27, 1989, gage height, 5.85 ft, present datum from rating curve extended above 150 ft³/s on basis of slope-area measurement of peak flow; minimum discharge, 0.80 ft³/s, Nov 9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45 ft³/s, May 6, gage height, 3.55 ft; minimum daily discharge, 3.2 ft³/s, on several days in Feb.

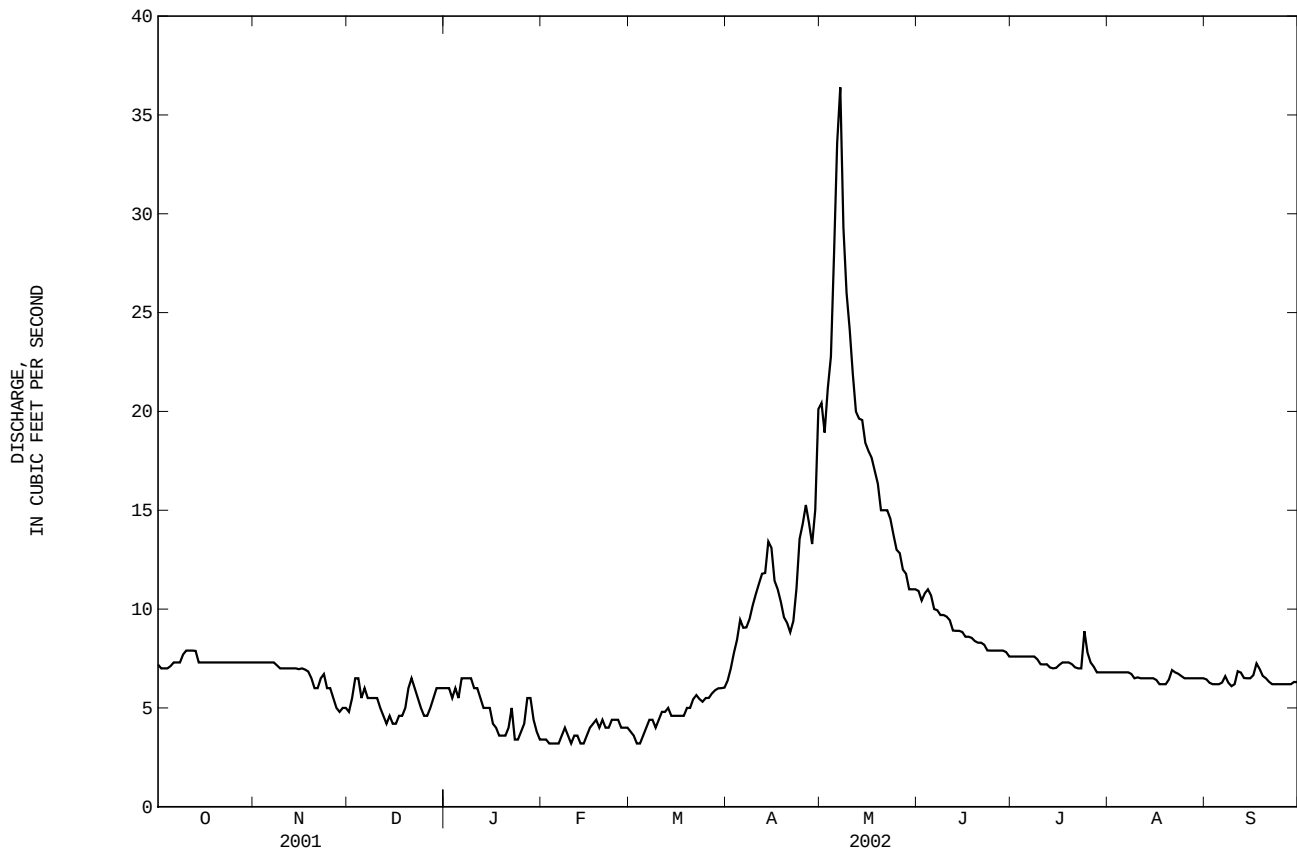
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	7.3	e4.8	e6.0	e3.4	e3.8	6.4	20	11	7.6	6.8	6.4
2	7.0	7.3	e5.5	e6.0	e3.4	e3.6	7.0	19	10	7.6	6.8	6.3
3	7.0	7.3	e6.5	e5.5	e3.2	e3.2	7.8	21	11	7.6	6.8	6.2
4	7.0	7.3	e6.5	e6.0	e3.2	e3.2	8.4	23	11	7.6	6.8	6.2
5	7.1	7.3	e5.5	e5.5	e3.2	e3.6	9.5	28	11	7.6	6.8	6.2
6	7.3	7.3	e6.0	e6.5	e3.2	e4.0	9.1	34	10	7.6	6.8	6.3
7	7.3	7.3	e5.5	e6.5	e3.6	e4.4	9.1	36	9.9	7.6	6.8	6.6
8	7.3	7.2	e5.5	e6.5	e4.0	e4.4	9.5	29	9.7	7.6	6.7	6.3
9	7.7	7.0	e5.5	e6.5	e3.6	e4.0	10	26	9.7	7.5	6.5	6.1
10	7.9	7.0	e5.5	e6.0	e3.2	e4.4	11	24	9.6	7.2	6.5	e6.2
11	7.9	7.0	e5.0	e6.0	e3.6	e4.8	11	22	9.4	7.2	6.5	6.9
12	7.9	7.0	e4.6	e5.5	e3.6	e4.8	12	20	8.9	7.2	6.5	6.8
13	7.9	7.0	e4.2	e5.0	e3.2	e5.0	12	20	8.9	7.0	6.5	6.5
14	7.3	7.0	e4.6	e5.0	e3.2	e4.6	13	20	8.9	7.0	6.5	6.5
15	7.3	7.0	e4.2	e5.0	e3.6	e4.6	13	18	8.8	7.0	6.5	6.5
16	7.3	7.0	e4.2	e4.2	e4.0	e4.6	11	18	8.6	7.2	6.4	6.7
17	7.3	6.9	e4.6	e4.0	e4.2	e4.6	11	18	8.6	7.3	6.2	7.2
18	7.3	6.8	e4.6	e3.6	e4.4	e4.6	10	17	8.5	7.3	6.2	7.0
19	7.3	e6.5	e5.0	e3.6	e4.0	e5.0	9.6	16	8.4	7.3	6.2	6.6
20	7.3	e6.0	e6.0	e3.6	e4.4	e5.0	9.3	15	8.3	7.2	6.4	6.5
21	7.3	e6.0	e6.5	e4.0	e4.0	5.4	8.8	15	8.3	7.1	6.9	6.3
22	7.3	e6.5	e6.0	e5.0	e4.0	5.6	9.4	15	8.2	7.0	6.8	6.2
23	7.3	6.7	e5.5	e3.4	e4.4	5.5	11	15	7.9	7.0	6.7	6.2
24	7.3	e6.0	e5.0	e3.4	e4.4	5.3	14	14	7.9	8.9	6.6	6.2
25	7.3	e6.0	e4.6	e3.8	e4.4	5.5	14	13	7.9	7.8	6.5	6.2
26	7.3	e5.5	e4.6	e4.2	e4.0	5.5	15	13	7.9	7.3	6.5	6.2
27	7.3	e5.0	e5.0	e5.5	e4.0	5.7	14	12	7.9	7.1	6.5	6.2
28	7.3	e4.8	e5.5	e5.5	e4.0	5.9	13	12	7.9	6.8	6.5	6.2
29	7.3	e5.0	e6.0	e4.4	---	6.0	15	11	7.8	6.8	6.5	6.3
30	7.3	e5.0	e6.0	e3.8	---	6.0	20	11	7.6	6.8	6.5	6.3
31	7.3	---	e6.0	e3.4	---	6.0	---	11	---	6.8	6.5	---
TOTAL	227.9	197.0	164.5	152.9	105.4	148.6	333.9	586	269.5	226.6	203.7	192.3
MEAN	7.352	6.567	5.306	4.932	3.764	4.794	11.13	18.90	8.983	7.310	6.571	6.410
MAX	7.9	7.3	6.5	6.5	4.4	6.0	20	36	11	8.9	6.9	7.2
AC-FIT	7.0	4.8	4.2	3.4	3.2	3.2	6.4	11	7.6	6.8	6.2	6.1
MIN	452	391	326	303	209	295	662	1160	535	449	404	381

MEAN	9.960	8.333	7.151	6.576	6.373	7.485	14.90	64.89	43.96	16.97	13.56	11.32
MAX	18.9	16.0	14.1	13.6	10.8	16.0	51.6	275	162	50.3	34.4	25.4
(WY)	1985	1985	1985	1985	1985	1988	1985	1984	1983	1983	1983	1984
MIN	3.57	3.24	3.33	2.58	2.49	4.25	5.31	5.12	3.70	4.67	4.09	3.55
(WY)	1978	1978	1978	1977	1977	1977	1964	1977	1977	1977	1977	1977

10205030 SALINA CREEK NEAR EMERY, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1964 - 2002	
ANNUAL TOTAL	3651.0		2808.3		17.68	
ANNUAL MEAN	10.00		7.694		53.0	
HIGHEST ANNUAL MEAN					4.58	
LOWEST ANNUAL MEAN					434	
HIGHEST DAILY MEAN	79	May 17	36	May 7	May 28 1983	
LOWEST DAILY MEAN	4.2	Dec 13	3.2	Feb 3	1.5 Dec 30 1982	
ANNUAL SEVEN-DAY MINIMUM	4.4	Dec 12	3.3	Jan 31	1.7 Dec 26 1982	
ANNUAL RUNOFF (AC-FT)	7240		5570		12810	
10 PERCENT EXCEEDS	16		12		33	
50 PERCENT EXCEEDS	7.3		6.8		9.3	
90 PERCENT EXCEEDS	4.9		4.0		5.1	

e Estimated



10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT

LOCATION.--Lat 39°15'33", long 111°34'45", in NE¹/₄ SE¹/₄ SE¹/₄ sec. 9, T. 18 S., R. 3 E., Sanpete County, Hydrologic Unit 16030004, on right bank 200 ft downstream from a side road bridge, 0.6 mi upstream from upper powerplant, 2.3 mi east of cattle guard at Manti-LaSal National Forest boundary, and 3.5 mi east of Manti.

DRAINAGE AREA.--26.4 mi².

PERIOD OF RECORD.--October 1964 to September 1974; October 1978 to current year.

REVISED RECORDS.--WDR UT-81-1: 1979, 1980(M), WDR UT-01-1: 2000, daily values.

GAGE.--Water-stage recorder. Crest-stage gage since August 22, 2000. Elevation of gage is 6,500 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Records do not include flow diverted around station in an 12-inch pipeline by city of Manti for culinary purposes and for generation of power at the upper powerplant. Records include flow of a small transmountain diversion from San Rafael River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 705 ft³/s, Jun 28, 1995, gage height, 5.49 ft; minimum, 0.9 ft³/s, Nov 3, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 245 ft³/s, May 18, gage height, 4.71 ft; minimum daily discharge, 3.4 ft³/s, Jan 31, Feb 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	3.9	e4.2	e4.2	e3.4	e3.9	8.0	22	62	15	7.3	4.5
2	4.4	3.7	e4.3	e4.1	e3.5	e3.8	8.8	20	61	15	7.1	4.4
3	4.3	3.7	e4.4	e4.1	e3.5	e4.0	9.2	22	61	15	6.8	4.5
4	4.3	3.7	e4.4	e4.1	e3.5	e4.2	10	27	55	14	6.6	4.4
5	4.3	3.7	e4.2	e4.2	e3.5	e4.4	12	35	52	14	6.3	4.4
6	4.3	3.7	e4.3	e4.2	e3.6	e4.6	12	43	50	13	6.1	5.3
7	4.3	4.0	e4.4	e4.3	e3.7	e4.6	10	49	48	13	6.1	5.2
8	4.3	3.7	e4.3	e4.4	e3.8	e4.5	10	e48	44	12	5.9	5.5
9	5.2	3.5	e4.3	e4.5	e3.7	e4.4	10	e43	43	12	5.8	4.9
10	4.5	3.9	e4.3	e4.4	e3.6	e4.6	13	44	40	12	5.7	4.6
11	4.6	3.9	e4.2	e4.3	e3.6	e4.6	13	44	38	12	5.6	5.6
12	4.8	3.7	e4.0	e4.3	e3.6	e4.6	13	42	36	11	5.5	5.5
13	4.8	3.7	e4.0	e4.3	e3.5	e4.4	14	50	34	11	5.4	5.0
14	4.6	e3.7	e4.1	e4.3	e3.5	e4.4	15	63	33	11	5.3	4.6
15	4.6	e3.8	e4.1	e4.4	e3.5	e4.4	15	74	32	10	5.1	4.4
16	4.4	e4.0	e4.0	e4.0	e3.6	e4.6	13	79	30	10	5.1	5.4
17	4.4	e4.1	e4.1	e3.8	e3.7	e4.6	12	90	29	10	5.0	5.7
18	4.4	e4.0	e4.1	e3.8	e3.8	e4.8	11	102	27	10	5.0	5.4
19	4.2	e4.0	e4.2	e3.8	e3.7	e5.0	10	105	26	9.9	4.9	5.0
20	4.1	e4.1	e4.2	e4.0	e3.9	e5.2	9.5	107	26	9.8	4.8	4.7
21	4.1	e4.2	e4.3	e4.1	e3.9	e5.0	9.4	93	24	9.4	4.8	4.5
22	4.1	e4.4	e4.2	e4.1	e3.9	e5.2	10	74	23	9.3	4.7	4.4
23	4.1	e4.4	e4.1	e3.6	e4.0	e5.2	11	66	22	9.1	4.7	4.4
24	3.8	e4.3	e4.0	e3.6	e3.9	e5.0	13	63	21	8.8	4.7	4.4
25	3.8	e4.3	e4.0	e3.7	e3.9	e5.0	15	61	20	9.3	4.5	4.3
26	3.8	e4.2	e4.0	e3.8	e3.8	e5.5	18	62	19	9.7	4.4	4.3
27	4.0	e4.2	e4.1	e4.0	e3.8	e5.5	17	63	19	8.8	4.5	4.3
28	4.0	e4.1	e4.1	e4.0	e3.9	5.8	14	65	18	8.1	4.6	4.2
29	3.7	e4.3	e4.2	e3.8	---	6.1	16	64	17	7.9	4.7	5.2
30	3.7	e4.2	e4.2	e3.5	---	6.1	21	65	16	7.7	4.6	4.8
31	4.7	---	e4.2	e3.4	---	7.0	---	64	---	7.5	4.6	---
TOTAL	133.0	119.1	129.5	125.1	103.3	151.0	372.9	1849	1026	335.3	166.2	143.8
MEAN	4.290	3.970	4.177	4.035	3.689	4.871	12.43	59.65	34.20	10.82	5.361	4.793
MAX	5.2	4.4	4.4	4.5	4.0	7.0	21	107	62	15	7.3	5.7
MIN	3.7	3.5	4.0	3.4	3.4	3.8	8.0	20	16	7.5	4.4	4.2
AC-FT	264	236	257	248	205	300	740	3670	2040	665	330	285

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965-74, 1979-2002, BY WATER YEAR (WY)

	MEAN	8.253	6.640	5.266	4.810	4.642	6.137	18.25	98.71	131.3	42.45	16.21	10.45
MAX	18.6	12.5	9.85	8.79	8.46	12.3	87.4	232	317	183	42.3	26.0	
(WY)	1984	1985	1984	1984	1984	1986	1985	1984	1983	1995	1983	1995	
MIN	4.14	3.77	3.35	3.05	3.13	3.22	5.46	47.1	32.2	10.9	5.35	3.65	
(WY)	2001	1993	1979	1981	1967	1991	1967	1990	1966	2002	2002	2000	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1965-74, 1979-2002

ANNUAL TOTAL	6444.1	4654.2		
ANNUAL MEAN	17.66	12.75		
HIGHEST ANNUAL MEAN			29.48	
LOWEST ANNUAL MEAN			61.0	1984
HIGHEST DAILY MEAN	193	May 17	12.7	2002
LOWEST DAILY MEAN	2.5	Feb 23	547	Jun 28 1995
ANNUAL SEVEN-DAY MINIMUM	2.8	Feb 27	1.8	Dec 13 2000
ANNUAL RUNOFF (AC-FT)	12780		2.3	Dec 9 2000
10 PERCENT EXCEEDS	48		21360	
50 PERCENT EXCEEDS	4.8		79	
90 PERCENT EXCEEDS	3.1		8.3	
			4.1	

e Estimated

LOCATION.--Lat 39°09'19", long 111°52'37", in NE¹/₄NE¹/₄SE¹/₄ sec. 14, T. 19 S., R. 1 W., Sanpete County, Hydrologic Unit 16030003, on left bank 1,000 ft downstream from San Pitch River and 3.2 mi west of Gunnison.

PERIOD OF RECORD.--March 1912 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage is 5,025 ft above NGVD of 1929, from topographic map. Prior to April 30, 1914, non-recording gage and April 30, 1914 to October 4, 1917, recording gage at site 0.5 mi upstream. October 4, 1917 to October 28, 1938 near present site (right bank) at datum 0.36 ft higher. October 28, 1938 to April 10, 1986 at same site and present datum. April 16, 1986 to June 6, 1989 recording gage at site approximately 0.8 mi downstream.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by reservoirs and many diversions for irrigation above station. Most of flow diverted above station during irrigation season.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,400 ft³/s, May 29, 1984; minimum, 5.6 ft³/s, Jul 17-21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 546 ft³/s, Mar 22, gage height, 5.77 ft; minimum daily discharge, 15 ft³/s, Aug 11, 19.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	142	225	241	195	234	131	64	48	28	25	47
2	100	130	231	236	200	215	109	67	46	30	23	62
3	100	133	239	236	206	192	87	73	47	33	20	80
4	104	133	247	235	207	185	81	74	51	35	18	91
5	104	142	243	230	207	177	79	65	53	33	18	73
6	113	135	245	230	207	110	78	62	60	32	17	55
7	108	133	244	233	205	160	77	69	59	33	17	65
8	81	130	229	241	211	149	75	63	47	35	18	73
9	93	130	229	246	209	101	72	63	43	32	18	89
10	105	129	235	249	206	119	72	58	43	28	16	98
11	118	135	235	241	206	126	70	65	44	31	15	106
12	102	138	233	235	208	169	68	67	44	31	19	112
13	100	140	224	239	209	210	67	72	45	28	19	115
14	102	201	211	229	214	214	67	74	45	24	18	123
15	119	194	224	224	211	213	64	73	45	24	18	134
16	144	212	223	220	216	212	73	68	42	23	17	140
17	143	202	208	213	219	216	72	63	43	33	17	159
18	133	204	216	207	222	312	77	61	41	30	17	156
19	121	202	239	208	223	368	78	64	36	29	15	155
20	120	198	229	203	222	338	79	70	34	28	17	158
21	124	201	230	221	225	356	96	71	29	32	22	160
22	131	206	235	230	226	432	57	63	28	29	17	166
23	126	227	225	210	229	450	60	55	32	26	16	142
24	134	222	218	200	230	410	64	59	33	22	25	148
25	132	219	213	210	229	424	66	65	31	21	33	155
26	136	225	208	210	220	374	62	64	29	22	32	146
27	132	228	205	220	226	359	54	60	29	26	34	142
28	137	218	217	220	226	365	60	57	30	32	35	141
29	138	227	233	210	---	178	68	59	28	33	36	148
30	141	229	237	205	---	140	68	73	28	32	39	158
31	138	---	240	200	---	138	---	55	---	27	41	---
TOTAL	3668	5365	7070	6932	6014	7646	2231	2016	1213	902	692	3597
MEAN	118.3	178.8	228.1	223.6	214.8	246.6	74.37	65.03	40.43	29.10	22.32	119.9
MAX	144	229	247	249	230	450	131	74	60	35	41	166
MIN	81	129	205	200	195	101	54	55	28	21	15	47
AC-FT	7280	10640	14020	13750	11930	15170	4430	4000	2410	1790	1370	7130

MEAN	195.2	239.7	271.5	280.2	338.2	359.6	274.3	375.8	391.7	121.3	105.2	134.3
MAX	783	760	1028	868	1141	1443	1670	3606	4308	1624	591	499
(WY)	1984	1984	1984	1984	1984	1984	1984	1984	1983	1983	1983	1983
MIN	27.1	56.0	96.7	100	97.2	74.0	70.7	56.5	40.4	25.7	16.2	17.2
(WY)	1935	1935	1932	1935	1935	1935	1966	1961	2002	1960	1934	1934

ANNUAL TOTAL	50121		47346			
ANNUAL MEAN	137.3		129.7		256.6	
HIGHEST ANNUAL MEAN					1346	1984
LOWEST ANNUAL MEAN					86.5	1935
HIGHEST DAILY MEAN	443	May 18	450	Mar 23	5400	May 29 1984
LOWEST DAILY MEAN	26	Jun 16	15	Aug 11	6.0	Jul 18 1977
ANNUAL SEVEN-DAY MINIMUM	28	Jul 27	17	Aug 5	6.6	Jul 14 1977
ANNUAL RUNOFF (AC-FT)	99420		93910		185900	
10 PERCENT EXCEEDS	235		232		481	
50 PERCENT EXCEEDS	130		119		189	
90 PERCENT EXCEEDS	33		28		58	

e Estimated

SEVIER LAKE BASIN

10219000 SEVIER RIVER NEAR JUAB, UT

LOCATION.--Lat 39°22'29", long 112°02'20", in SE¹/₄SW¹/₄SE¹/₄ sec. 35, T. 16 S., R. 2 W., Juab County, Hydrologic Unit 16030005, on right bank 0.5 mi downstream from Sevier Bridge Dam and 11.6 mi southwest of Juab.

DRAINAGE AREA.--5,165 mi².

PERIOD OF RECORD.--September 1911 to current year.

GAGE.--Water-stage recorder and rubble masonry control since April 16, 1914. Elevation of gage is 4,940 ft above NGVD of 1929, by barometer. Prior to April 16, 1914, staff gage 500 ft upstream at different datum. April 16, 1914 to April 7, 1938, water-stage recorder at present site and datum. April 8, 1938 to March 31, 1942, water-stage recorder at site 1,300 ft upstream at different datum. April 1, 1942 to June 15, 1961, water-stage recorder on left bank same site and datum. Since June 16, 1961 water-stage recorder on right bank at different datum.

REMARKS.--Records good, except for estimated daily discharges which are fair. Flow regulated by Sevier Bridge Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,190 ft³/s, Jun 25, 1983, gage height, 10.90 ft; no flow many days during April 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 673 ft³/s, Apr 15, gage height, 6.37 ft; minimum daily discharge, 3.8 ft³/s, Nov 8, 9, 10, Dec 25, 26, Jan 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	4.2	6.3	5.4	4.9	5.2	5.1	520	480	405	273	72
2	5.7	4.2	6.5	5.7	5.1	5.1	5.1	520	480	404	180	26
3	5.7	4.2	6.7	5.7	5.1	5.1	5.1	518	477	483	191	16
4	5.7	4.2	6.8	5.7	5.1	5.1	5.1	518	474	583	192	10
5	5.7	4.2	7.2	3.9	5.4	5.1	5.7	519	370	582	191	9.6
6	5.7	4.2	7.2	3.8	5.7	5.2	5.7	518	238	579	109	104
7	5.7	4.3	7.8	4.0	5.8	5.4	5.7	513	236	577	224	80
8	5.3	3.8	7.8	4.2	6.4	5.4	79	505	233	576	125	38
9	5.2	3.8	8.1	4.3	6.8	5.1	340	502	233	575	194	19
10	5.2	3.8	8.1	4.5	6.8	4.8	344	503	231	572	193	7.3
11	4.7	4.0	8.3	4.4	6.8	5.1	345	500	231	572	191	4.9
12	4.6	4.2	8.4	4.5	6.8	5.1	451	497	231	569	191	4.3
13	4.7	4.3	8.8	4.6	6.8	5.4	658	496	231	569	186	4.4
14	4.6	4.4	8.3	4.6	6.8	5.2	660	497	231	568	188	5.3
15	4.6	4.4	7.9	4.6	6.9	5.1	658	496	231	515	202	5.9
16	4.6	4.6	8.1	4.6	7.4	5.1	369	496	231	466	244	6.3
17	4.2	4.8	8.1	4.6	6.8	5.1	12	495	231	465	348	6.5
18	4.2	4.9	8.1	5.2	5.5	5.1	12	494	232	465	348	6.7
19	4.2	5.2	7.0	5.2	5.1	5.0	12	493	231	464	345	7.2
20	4.2	5.5	5.4	4.9	5.1	5.1	12	490	231	462	342	7.7
21	4.2	5.7	4.6	4.5	5.1	5.1	12	491	231	461	341	7.3
22	4.2	6.0	4.6	4.2	5.1	5.1	11	492	277	459	341	7.7
23	4.2	5.8	4.4	4.2	5.4	5.2	10	490	410	391	341	7.7
24	4.2	5.7	3.9	4.2	5.1	5.1	10	489	409	314	341	7.8
25	4.2	5.8	3.8	4.5	5.2	5.1	10	490	410	314	344	7.6
26	4.2	5.6	3.8	4.6	5.1	5.1	10	488	407	312	427	7.7
27	4.2	5.9	4.1	4.4	5.1	5.1	10	488	407	313	568	8.0
28	4.2	5.9	4.4	4.6	5.2	5.1	10	488	408	315	529	8.1
29	4.2	6.5	4.6	4.5	---	5.2	10	487	407	314	446	8.1
30	4.3	6.5	4.6	4.4	---	5.1	258	485	404	313	356	8.1
31	4.3	---	5.0	4.6	---	5.1	---	482	---	314	194	---
TOTAL	146.6	146.6	198.7	143.1	162.4	159.1	4340.5	15460	9533	14271	8685	519.2
MEAN	4.729	4.887	6.410	4.616	5.800	5.132	144.7	498.7	317.8	460.4	280.2	17.31
MAX	5.7	6.5	8.8	5.7	7.4	5.4	660	520	480	583	568	104
MIN	4.2	3.8	3.8	3.8	4.9	4.8	5.1	482	231	312	109	4.3
AC-FT	291	291	394	284	322	316	8610	30660	18910	28310	17230	1030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2002, BY WATER YEAR (WY)

	MEAN	61.24	36.14	38.89	65.69	75.29	124.0	304.9	722.6	605.4	539.3	371.3	162.8
MAX	640	439	757	1295	1184	1535	1783	3135	4178	3293	1599	737	
(WY)	1923	1999	1986	1984	1984	1983	1984	1984	1983	1983	1983	1923	
MIN	1.00	0.60	0.45	0.76	0.94	1.01	2.00	305	138	65.4	25.0	1.34	
(WY)	1961	1965	1965	1965	1965	1965	1941	1995	1964	1934	1934	1961	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1912 - 2002

ANNUAL TOTAL	69959.1	53765.2	
ANNUAL MEAN	191.7	147.3	
HIGHEST ANNUAL MEAN			260.1
LOWEST ANNUAL MEAN			1322
HIGHEST DAILY MEAN	1010	May 13	94.2
LOWEST DAILY MEAN	1.3	Apr 13	4920
ANNUAL SEVEN-DAY MINIMUM	1.4	Apr 10	Jun 25
ANNUAL RUNOFF (AC-FT)	138800		188500
10 PERCENT EXCEEDS	604		755
50 PERCENT EXCEEDS	6.5		40
90 PERCENT EXCEEDS	2.0		2.0

e Estimated

10224000 SEVIER RIVER NEAR LYNNDYL, UT

LOCATION.--Lat 39°28'55", long 112°23'35", in NW¹/₄NE¹/₄SE¹/₄ sec. 27, T. 15 S., R. 5 W., Millard County, Hydrologic Unit 16030005, on right bank 1.6 mi downstream from highway bridge and 3.5 mi southwest of Lynndyl.

DRAINAGE AREA.--5,966 mi².

PERIOD OF RECORD.--April 1914 to October 1919, October 1942 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage is 4,660 ft above NGVD of 1929, by barometer. Prior to October 1, 1979 at site 80 ft upstream. Prior to April 23, 1991 at site 80 ft downstream.

REMARKS.--Records good except for estimated days, which are fair. Flow regulated by Sevier Bridge Reservoir about 35 mi upstream (see station 10218500). Several diversions for irrigation between reservoir and station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,020 ft³/s, Jun 15, 16, 17, 1983; minimum discharge, 2.4 ft³/s, Jan 26, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 614 ft³/s, Apr 17, gage height, 5.93 ft; minimum daily discharge, 14 ft³/s, Feb 14, 16-19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	62	e60	e60	27	49	42	68	393	414	241	217
2	46	59	e58	e61	24	50	37	326	424	375	234	153
3	42	57	e60	e61	25	49	30	429	454	382	145	87
4	51	57	e62	e62	24	50	28	427	471	431	118	51
5	53	57	e62	e62	25	51	27	411	478	551	124	43
6	54	57	64	e62	25	50	27	452	436	449	128	26
7	54	59	62	62	23	52	27	478	258	418	133	21
8	54	61	62	63	17	57	28	473	225	429	79	86
9	58	62	60	63	19	56	29	494	207	439	133	75
10	60	62	62	63	21	53	153	493	207	434	90	52
11	60	62	62	62	19	52	300	482	192	441	136	45
12	67	60	61	62	16	51	322	489	166	458	168	32
13	67	60	e60	62	17	51	359	494	157	470	183	40
14	67	60	e62	62	14	53	538	487	169	483	185	41
15	65	60	e62	61	16	50	591	e480	195	488	172	42
16	65	59	e62	e60	14	54	599	e480	200	465	196	41
17	65	59	e62	e60	14	41	535	e470	196	419	205	50
18	61	58	e62	e60	14	40	175	e470	173	445	299	53
19	57	59	e62	e60	14	39	e160	e460	169	447	322	50
20	63	58	e60	e60	15	39	e140	e460	182	444	304	48
21	57	58	e60	e62	15	44	e120	e450	185	442	299	48
22	57	60	e60	e62	15	43	e100	e440	168	442	288	46
23	57	63	e60	e62	15	42	84	e440	184	446	275	45
24	57	63	e60	e60	17	44	80	e431	337	432	278	45
25	57	63	e60	e60	48	45	77	434	346	317	280	45
26	57	64	e60	e58	51	46	73	434	319	280	260	45
27	57	63	e60	e58	51	46	69	443	293	261	253	44
28	57	59	e58	e58	49	44	79	449	411	246	398	44
29	57	e58	e60	52	---	43	81	438	421	251	407	39
30	57	e60	e60	28	---	42	73	428	423	252	359	46
31	61	---	e62	32	---	42	---	410	---	253	310	---
TOTAL	1786	1799	1887	1820	644	1468	4983	13620	8439	12504	7002	1700
MEAN	57.61	59.97	60.87	58.71	23.00	47.35	166.1	439.4	281.3	403.4	225.9	56.67
MAX	67	64	64	63	51	57	599	494	478	551	407	217
MIN	42	57	58	28	14	39	27	68	157	246	79	21
AC-FT	3540	3570	3740	3610	1280	2910	9880	27020	16740	24800	13890	3370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2002, BY WATER YEAR (WY)

	MEAN	66.09	74.24	74.85	100.2	132.1	188.3	305.1	590.1	545.1	458.8	312.0	107.8
MAX	516	469	728	1218	1134	1514	2087	3243	4702	2842	1644	497	
(WY)	1985	1985	1986	1984	1984	1983	1984	1984	1983	1983	1983	1984	
MIN	22.7	22.6	10.2	6.16	7.23	11.2	25.9	287	116	180	64.0	20.5	
(WY)	1968	1958	1963	1963	1978	1975	1952	1957	1964	1961	1965	1961	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1943 - 2002

ANNUAL TOTAL	70114	57652											
ANNUAL MEAN	192.1	158.0								248.1			
HIGHEST ANNUAL MEAN										1369		1984	
LOWEST ANNUAL MEAN										103		1961	
HIGHEST DAILY MEAN	909	Apr 30	599	Apr 16						5020	Jun 15	1983	
LOWEST DAILY MEAN	13	Feb 2	14	Feb 14						4.5	Jan 1	1964	
ANNUAL SEVEN-DAY MINIMUM	13	Feb 2	14	Feb 14						4.9	Jan 22	1980	
ANNUAL RUNOFF (AC-FT)	139100		114400							179700			
10 PERCENT EXCEEDS	502		442							641			
50 PERCENT EXCEEDS	61		62							76			
90 PERCENT EXCEEDS	15		35							19			

e Estimated

BEAVER RIVER BASIN

10234500 BEAVER RIVER NEAR BEAVER, UT

LOCATION.--Lat 38°16'50", long 112°34'03", in SW¹/₄SE¹/₄ sec. 18, T. 29 S., R. 6 W., Beaver County, Hydrologic Unit 16030007, on left bank 0.3 mi upstream of diversion, 0.6 mi downstream of Baker Canyon, and 4.2 mi east of Beaver.

DRAINAGE AREA.--91.0 mi².

PERIOD OF RECORD.--June to September 1906, March 1914 to current year.

REVISED RECORDS.--WDR UT-80-1: 1979.

GAGE.--Water-stage recorder. Crest-stage gage since May 25, 1989. Elevation of gage is 6,200 ft above NGVD of 1929, from topographic map. Prior to March 30, 1914, nonrecording gage and March 30, 1914 to October 15, 1937, water-stage recorder at site 0.1 mi downstream at different datum. October 16, 1937 to March 20, 1959, at site 0.2 mi upstream at different datum. March 21, 1959 to March 21, 1978 at site 0.5 mi upstream at different datum. March 21, 1978 to May 30, 1983, at site 0.2 mi upstream at different datum. July 15, 1983 to June 21, 1985 at present site at datum 1.0 ft higher.

REMARKS.--Records good except estimated daily discharges, which are poor. No diversion for irrigation upstream of station. Water is diverted for power generation and is returned upstream of station. Slight regulation by powerplants and several small headwater reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft³/s, Jul 22, 1936, gage height, 7.27 ft, datum then in use, from rating curve extended above 500 ft³/s; minimum daily, 7.2 ft³/s, Dec 19, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 20	1615	*55	*1.09	May 21	1430	*55	*1.09

Minimum daily discharge, 12 ft³/s, on several days in Aug and Sep.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	22	e20	19	e18	e15	28	38	33	19	16	12
2	20	21	e20	19	e18	e15	29	38	32	19	16	12
3	19	21	21	19	e18	e15	30	36	30	21	16	12
4	19	20	20	19	e17	e15	31	35	25	21	17	12
5	19	21	21	e19	e17	e15	31	35	29	21	16	13
6	19	20	e20	20	e17	17	31	40	31	20	16	15
7	20	21	20	19	e17	16	28	44	28	19	15	14
8	19	21	e17	19	17	16	30	44	26	18	15	16
9	22	20	e19	19	17	e15	30	43	27	18	14	15
10	21	21	19	18	e16	16	30	42	27	18	14	14
11	21	20	e18	20	e15	16	33	41	26	18	13	14
12	21	20	e18	19	14	16	33	41	26	18	13	19
13	20	21	e16	19	e14	17	34	41	25	18	13	17
14	20	18	e19	e19	14	17	36	42	24	18	13	15
15	20	19	e19	e19	14	e16	37	44	24	18	13	15
16	18	20	e17	e19	14	e16	35	44	21	23	12	15
17	19	20	e19	e18	15	16	33	45	22	21	12	15
18	20	20	e21	e17	15	18	29	45	23	22	12	15
19	19	18	e20	e18	16	18	30	44	23	21	12	15
20	20	19	e19	e19	15	17	28	43	23	20	13	14
21	19	19	19	e19	15	17	27	42	24	19	13	14
22	19	21	e18	e19	16	18	30	40	22	19	13	14
23	19	19	e18	e19	16	20	30	39	20	20	13	14
24	19	19	e16	e19	16	18	31	37	20	22	13	14
25	19	20	e16	e19	16	18	33	35	21	24	12	14
26	20	e18	e18	e18	e15	18	36	34	21	22	12	14
27	20	e19	e20	e18	e15	18	34	34	21	20	12	14
28	20	e18	20	18	e15	20	33	34	20	18	12	14
29	20	e18	20	18	---	22	35	33	20	18	13	16
30	20	e19	20	e18	---	23	40	33	20	18	12	18
31	23	---	19	e18	---	24	---	33	---	17	12	---
TOTAL	614	593	587	580	442	538	955	1219	734	608	418	435
MEAN	19.81	19.77	18.94	18.71	15.79	17.35	31.83	39.32	24.47	19.61	13.48	14.50
MAX	23	22	21	20	18	24	40	45	33	24	17	19
MIN	18	18	16	17	14	15	27	33	20	17	12	12
AC-FT	1220	1180	1160	1150	877	1070	1890	2420	1460	1210	829	863

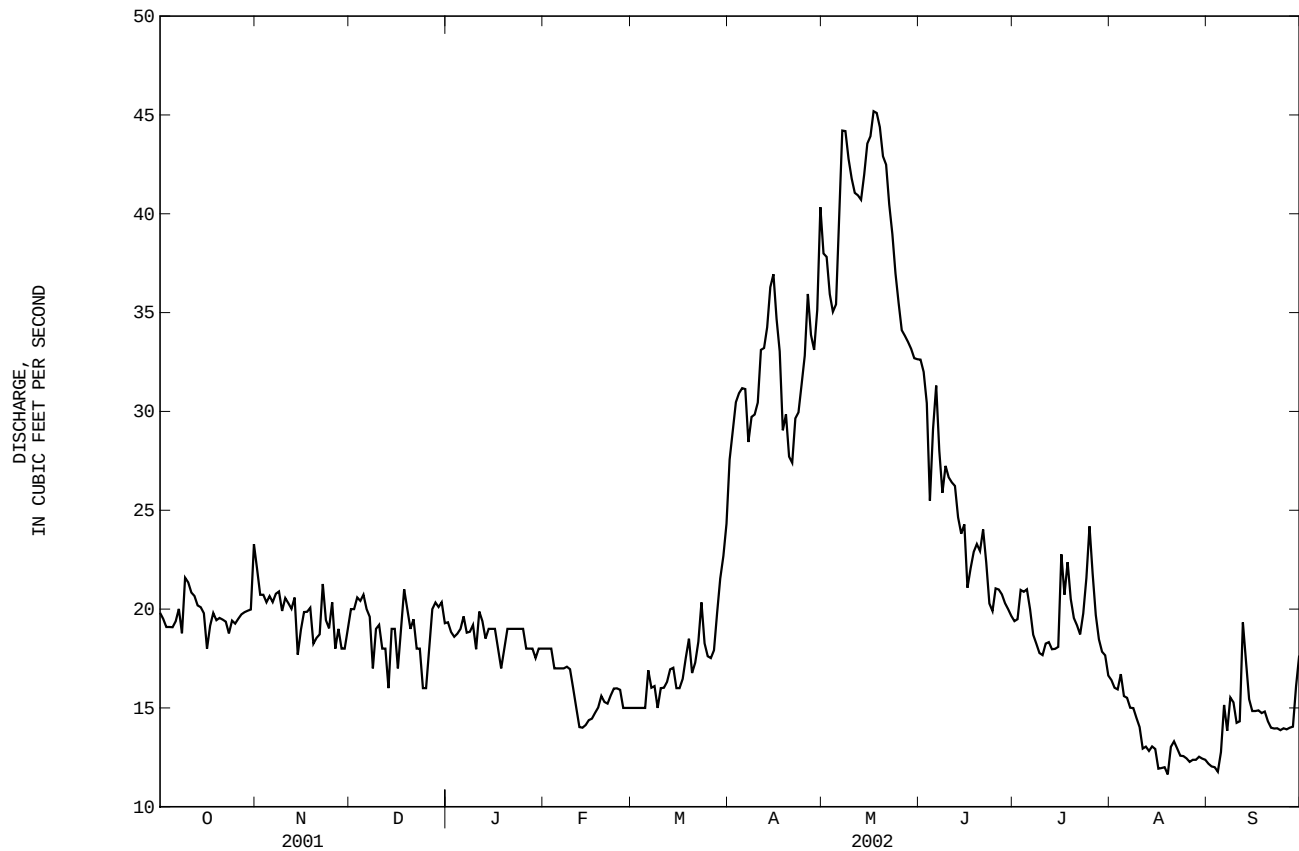
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2002, BY WATER YEAR (WY)

	MEAN	23.68	21.72	19.50	18.27	18.86	22.68	53.31	167.0	151.4	63.30	36.93	25.95
MAX	41.5	47.0	37.7	27.0	27.9	44.9	117	409	638	198	98.0	63.3	
(WY)	1915	1984	1984	1942	1984	1916	1943	1984	1983	1983	1983	1983	
MIN	13.3	11.7	9.95	9.96	11.4	12.9	18.6	25.7	24.1	14.9	11.8	10.7	
(WY)	1978	1978	1977	1977	1977	1977	1975	1977	1934	1977	1977	1977	

10234500 BEAVER RIVER NEAR BEAVER, UT--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1915 - 2002	
ANNUAL TOTAL	14685		7723		52.01	
ANNUAL MEAN	40.23		21.16		119	
HIGHEST ANNUAL MEAN					1983	
LOWEST ANNUAL MEAN					16.1	
HIGHEST DAILY MEAN	197	May 17	45	May 17	884	May 24 1984
LOWEST DAILY MEAN	16	Jan 20	12	Aug 16	7.2	Dec 20 1976
ANNUAL SEVEN-DAY MINIMUM	16	Jan 20	12	Aug 25	8.4	Dec 19 1976
ANNUAL RUNOFF (AC-FT)	29130		15320		37680	
10 PERCENT EXCEEDS	92		33		117	
50 PERCENT EXCEEDS	21		19		25	
90 PERCENT EXCEEDS	17		14		15	

e Estimated



BEAVER RIVER BASIN

10237000 BEAVER RIVER AT ADAMSVILLE, UT

LOCATION.--Lat 38°15'13", long 112°45'56", in NE¹/₄SW¹/₄ sec. 28, T. 29 S., R. 8 W., Beaver County, Hydrologic Unit 16030007, on right upstream wingwall of bridge on State Highway 21, 2.0 mi upstream from Indian Creek, and 1.6 mi east of Adamsville.

DRAINAGE AREA.--303 mi².

PERIOD OF RECORD.--December 1913 to current year. Monthly discharge only, October 1936 to October 1937, published in WSP 1314.

GAGE.--Water-stage recorder. Crest-stage gage since November 23, 1994. Elevation of gage is 5,550 ft above NGVD of 1929, from topographic map. Prior to September 15, 1936 water-stage recorder, September 15, 1936 to October 15, 1937 nonrecording gage, and October 16, 1937 to March 19, 1970 water-stage recorder about 1.7 mi downstream. March 20, 1970 to July 25, 1979 water-stage recorder 400 ft downstream. Sites prior to July 26, 1979 at different datums. July 26, 1979 to February 5, 1992 water-stage recorder 50 ft upstream at same datum.

REMARKS.--Records good except for daily discharges less than 2.0 ft³/s and estimated daily discharges, which are poor. One small diversion between station and Minersville Reservoir. Many diversions for irrigation upstream of station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,870 ft³/s, Jun 6, 1995, gage height 5.52 ft, from rating curve extended above 1,000 ft³/s; no flow during Aug and Sep 2002 at current site and some years when gage was 1.7 mi downstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 57 ft³/s, Feb 2, gage height, 4.17 ft; no flow on many days in Aug and Sep.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.24	42	40	39	e35	36	25	0.26	0.18	0.08	0.03	0.00
2	0.22	39	40	38	41	33	15	0.27	0.20	0.06	0.05	0.00
3	0.22	37	41	37	36	36	12	0.35	0.21	0.06	0.08	0.00
4	0.22	37	40	36	36	37	13	0.44	0.20	0.08	0.06	0.01
5	0.21	39	37	e35	35	36	13	0.57	0.20	0.07	0.05	0.00
6	0.21	40	37	e36	36	35	11	0.32	0.17	0.06	0.06	0.04
7	0.22	40	36	37	36	36	9.5	0.29	0.13	0.07	0.05	0.07
8	0.22	42	35	38	37	36	9.2	0.43	0.11	0.07	0.04	0.08
9	0.22	39	37	40	36	36	10	0.36	0.13	0.07	0.04	0.08
10	0.21	39	36	41	35	38	9.7	0.30	0.15	0.08	0.03	0.08
11	0.22	38	36	e38	37	37	10	0.31	0.14	0.10	0.04	0.10
12	0.24	36	35	e38	39	37	11	0.35	0.14	0.10	0.02	0.13
13	0.25	37	e35	e37	35	37	10	0.55	0.14	0.08	0.01	0.12
14	0.24	36	e37	36	37	38	11	0.45	0.13	0.09	0.00	0.10
15	9.4	34	e36	e35	40	35	2.9	0.43	0.13	0.10	0.00	0.09
16	16	35	e34	e34	43	35	0.66	0.31	0.13	0.11	0.00	0.10
17	20	35	e33	e30	42	36	0.69	0.37	0.12	0.13	0.00	0.11
18	20	35	e34	e32	38	35	0.77	0.34	0.12	0.14	0.00	0.11
19	21	34	e37	e34	37	34	0.72	0.23	0.13	0.11	0.00	0.12
20	20	33	39	e34	41	32	1.5	0.26	0.12	0.10	0.00	0.11
21	20	32	39	e34	42	30	1.4	0.26	0.13	0.08	0.00	0.11
22	24	35	37	34	40	29	1.2	0.24	0.14	0.08	0.00	0.11
23	27	34	37	e35	40	26	1.1	0.24	0.14	0.09	0.00	0.10
24	26	31	e36	e36	37	24	0.84	0.23	0.12	0.09	0.00	0.11
25	25	34	e37	e37	36	25	0.67	0.24	0.11	0.14	0.00	0.11
26	26	29	e38	37	35	27	0.49	0.25	0.10	0.14	0.00	0.13
27	26	29	e38	36	36	27	0.72	0.28	0.09	0.11	0.00	0.12
28	26	28	39	35	36	29	0.39	0.25	0.08	0.07	0.00	0.13
29	25	29	40	36	---	31	0.35	0.24	0.07	0.05	0.00	0.19
30	26	36	42	e35	---	30	0.28	0.24	0.08	0.04	0.00	0.18
31	30	---	41	e35	---	32	---	0.22	---	0.03	0.00	---
TOTAL	390.54	1064	1159	1115	1054	1025	184.08	9.88	4.04	2.68	0.56	2.74
MEAN	12.60	35.47	37.39	35.97	37.64	33.06	6.136	0.319	0.135	0.086	0.018	0.091
MAX	30	42	42	41	43	38	25	0.57	0.21	0.14	0.08	0.19
MIN	0.21	28	33	30	35	24	0.28	0.22	0.07	0.03	0.00	0.00
AC-FT	775	2110	2300	2210	2090	2030	365	20	8.0	5.3	1.1	5.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2002, BY WATER YEAR (WY)

	MEAN	19.46	41.30	41.30	39.26	43.05	43.19	30.05	72.77	81.36	15.87	14.50	11.04
MAX	66.9	70.1	62.7	65.6	65.5	85.8	144	622	1113	134	136	49.6	
(WY)	1984	1983	1985	1969	1930	1916	1984	1984	1983	1983	1936	1936	1936
MIN	0.000	18.0	18.9	19.1	21.5	22.3	1.93	0.32	0.000	0.000	0.000	0.000	0.000
(WY)	1932	1991	1991	1973	1935	1935	1935	2002	1934	1934	1931	1924	1924

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1915 - 2002

ANNUAL TOTAL	6729.34	6011.52	
ANNUAL MEAN	18.44	16.47	37.69
HIGHEST ANNUAL MEAN			180
LOWEST ANNUAL MEAN			9.83
HIGHEST DAILY MEAN	82	43	1700
LOWEST DAILY MEAN	0.05	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.06	0.00	0.00
ANNUAL RUNOFF (AC-FT)	13350	11920	27300
10 PERCENT EXCEEDS	38	38	59
50 PERCENT EXCEEDS	20	2.9	30
90 PERCENT EXCEEDS	0.18	0.05	0.60

e Estimated

10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT

LOCATION.--Lat 38°13'03", long 112°50'22", in SE¹/₄NW¹/₄NW¹/₄ sec. 11, T. 30 S., R. 9 W., Beaver County, Hydrologic Unit 16030007, on right bank, 0.5 mi downstream from Rocky Ford Dam, and 4.8 mi east of Minersville.

DRAINAGE AREA.--535 mi².

PERIOD OF RECORD.--December 1913 to September 1936, April 1937 to current year.

REVISED RECORDS.--WSP 1564: 1920, 1924. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Concrete control since November 12, 1916. Elevation of gage is 5,400 ft above NGVD of 1929, from topographic map. Prior to June 1, 1916, at site 1,500 ft upstream at different datum.

REMARKS.-- Records good. One small diversion between dam and station. Flow regulated by Minersville Reservoir (prior to 1968 published as Rockyford Reservoir). Numerous diversions for irrigation and municipal use upstream from reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft³/s, Jun 12, 1983, gage height, 4.74 ft, from rating curve extended above 600 ft³/s on basis of slope-area measurement of peak flow; minimum daily discharge, 1.3 ft³/s, Oct 24, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 60 ft³/s, Jun 1, gage height, 1.32 ft; minimum daily discharge, 2.2 ft³/s, Sep 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.9	3.3	3.5	4.0	5.0	6.2	52	58	38	22	17
2	3.4	3.8	3.3	3.7	3.8	5.1	6.2	52	57	38	22	16
3	3.3	3.7	3.4	3.3	3.8	5.0	6.4	43	49	33	22	18
4	3.6	3.7	3.4	3.3	3.9	5.0	6.6	43	34	35	23	18
5	3.6	3.6	3.3	3.3	4.0	4.9	6.7	43	26	38	25	14
6	3.3	3.3	3.3	3.3	4.0	5.0	6.7	49	21	42	25	13
7	3.3	3.5	3.5	3.4	4.0	4.9	6.7	49	20	41	29	9.7
8	3.3	3.7	3.5	3.7	4.1	5.0	6.7	53	28	37	34	13
9	3.3	3.7	3.5	3.7	4.4	4.9	6.7	49	28	40	34	14
10	3.3	3.7	3.7	3.7	4.4	4.9	6.7	51	19	35	33	8.8
11	3.3	3.5	3.7	3.7	4.1	5.0	6.7	53	23	30	33	4.0
12	3.4	3.4	3.5	3.8	4.0	5.1	6.8	52	27	27	33	10
13	3.3	3.5	3.3	4.0	4.0	5.4	16	51	25	26	33	12
14	3.3	3.3	3.3	4.0	4.2	5.8	19	51	25	28	32	8.0
15	3.3	3.3	3.3	4.0	4.2	5.8	16	45	25	24	26	7.4
16	3.3	3.3	3.3	4.0	4.4	5.8	11	44	25	20	22	9.1
17	3.3	3.3	3.3	4.0	4.4	5.8	19	48	33	28	23	6.1
18	3.3	3.3	3.3	4.0	4.5	5.8	19	48	36	31	23	2.9
19	3.3	3.3	3.3	4.0	4.9	5.8	19	48	41	26	23	2.4
20	3.3	3.3	3.5	4.0	4.9	5.8	19	48	37	23	24	2.8
21	3.3	3.3	3.7	4.0	4.9	5.8	20	48	35	23	24	2.5
22	3.3	3.3	3.7	4.0	4.9	5.8	22	48	35	23	27	2.7
23	3.3	3.3	3.7	4.0	4.9	5.8	34	41	35	23	22	2.3
24	3.3	3.5	3.4	4.0	5.0	5.8	41	45	35	24	18	2.2
25	3.3	3.8	3.3	4.0	5.0	6.1	42	48	36	22	18	2.8
26	3.4	3.7	3.3	4.0	5.1	6.2	41	54	37	20	21	2.6
27	3.7	3.7	3.3	4.0	4.9	6.2	38	56	42	21	25	2.6
28	3.7	3.7	3.3	4.2	4.9	6.5	38	56	42	21	20	2.7
29	3.7	3.7	3.5	4.1	---	6.7	30	56	41	20	13	3.1
30	3.8	3.7	3.4	4.0	---	6.7	33	51	38	20	9.3	3.0
31	4.0	---	3.3	4.0	---	6.4	---	45	---	23	13	---
TOTAL	105.8	105.8	105.9	118.7	123.6	173.8	556.1	1520	1013	880	751.3	232.7
MEAN	3.413	3.527	3.416	3.829	4.414	5.606	18.54	49.03	33.77	28.39	24.24	7.757
MAX	4.0	3.9	3.7	4.2	5.1	6.7	42	56	58	42	34	18
MIN	3.3	3.3	3.3	3.3	3.8	4.9	6.2	41	19	20	9.3	2.2
AC-FT	210	210	210	235	245	345	1100	3010	2010	1750	1490	462

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-36, 1938-2002, BY WATER YEAR (WY)

	MEAN	12.23	10.22	11.02	11.77	11.57	15.26	28.19	95.54	107.1	83.45	65.22	34.75
MAX	57.8	51.8	97.8	121	55.8	76.7	196	457	926	215	143	145	
(WY)	1938	1984	1942	1984	1985	1983	1984	1984	1983	1983	1986	1999	
MIN	2.85	3.19	2.67	2.95	3.54	4.69	5.98	27.8	21.0	7.84	7.61	4.59	
(WY)	1977	1978	1978	1978	1978	1978	1997	1977	1919	1919	1919	1956	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1915-36, 1938-2002

ANNUAL TOTAL	6698.8	5686.7	
ANNUAL MEAN	18.35	15.58	40.39
HIGHEST ANNUAL MEAN			163
LOWEST ANNUAL MEAN			12.6
HIGHEST DAILY MEAN	75	58	1210
LOWEST DAILY MEAN	3.3	2.2	1.3
ANNUAL SEVEN-DAY MINIMUM	3.3	2.5	1.5
ANNUAL RUNOFF (AC-FT)	13290	11280	29260
10 PERCENT EXCEEDS	56	42	102
50 PERCENT EXCEEDS	6.2	5.8	14
90 PERCENT EXCEEDS	3.3	3.3	4.4

CEDAR VALLEY, IRON COUNTY

10242000 COAL CREEK NEAR CEDAR CITY, UT

LOCATION.--Lat 37°40'20", long 113°02'02", in SE¹/₄SE¹/₄NE¹/₄ sec. 13, T. 36 S., R. 11 W., Iron County, Hydrologic Unit 16030006, on right bank 1.2 mi east of Cedar City, and 3.7 mi downstream from the mouth of Right Hand Creek.

DRAINAGE AREA.--80.9 mi².

PERIOD OF RECORD.--May to September 1915 (gage heights and discharge measurements only), October 1915 to July 1916, September 1916 to July 1918, September 1918 to November 1919, May 1935 to September 1937, April 1938 to current year. Records prior to November 1919 exclude flow of power canal; records would be equivalent if flow in canal were added.

REVISED RECORD.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage since August 1, 1989. Concrete control since July 1972, rebuilt July 29, 1988. Elevation of gage is 6,000 ft above NGVD of 1929, from topographic map. Prior to March 30, 1939, nonrecording gages. March 30, 1939 to May 14, 1945, water-stage recorder at several sites about 0.5 mi upstream at various datums. May 15, 1945 to October 10, 1951 and May 4 to July 2, 1952, water-stage recorder at site 2 mi upstream at different datum. July 3, 1952 to November 17, 1967, water-stage recorder at site 600 ft upstream at different datum.

REMARKS.--Records good except for daily discharges for Oct 1 to 11 and estimated daily discharges, which are poor. No diversion above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft³/s, Jul 23, 1969, gage height, 11.67 ft, from flood-mark, based on slope-area measurement of Jul 16, 1967 and applied to site and datum now in use; minimum, 0.3 ft³/s, Nov 5, 14, 17, 26, 1959, Feb 17, 1960, Feb 24, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 24	1545	*246	*6.26				

Minimum discharge, 3.1 ft³/s, Jan 17 and Mar 19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	9.6	e9.0	8.1	e6.0	7.6	21	15	9.2	e6.8	6.6	5.7
2	9.4	9.1	8.9	7.8	e7.0	e7.0	20	14	9.1	e6.6	6.8	5.7
3	8.7	9.2	8.8	8.2	e8.0	e7.0	22	13	9.4	e6.4	6.7	5.9
4	9.0	9.3	8.4	7.7	e8.6	e8.4	23	14	9.4	e6.2	6.7	5.7
5	9.1	9.4	e8.0	e7.0	e9.2	13	25	14	8.8	6.1	6.7	5.8
6	10	9.4	e8.0	e7.0	e9.6	9.5	24	14	8.7	6.0	6.5	11
7	8.8	10	e8.4	7.7	e10	8.8	22	14	8.2	5.8	6.2	45
8	9.2	9.8	e9.0	9.3	8.7	8.6	23	14	8.0	5.7	5.8	12
9	9.6	9.7	e9.4	9.7	e8.0	e7.4	23	13	7.8	5.9	6.4	9.8
10	8.5	9.8	9.7	7.7	e8.6	7.9	26	13	7.9	6.5	5.9	8.1
11	8.7	9.6	e9.0	e7.0	e9.0	7.6	27	14	8.1	7.2	5.7	16
12	8.9	9.5	e7.4	9.6	e9.2	9.1	29	13	7.9	e7.0	5.6	17
13	9.1	11	e7.2	7.3	e9.4	11	28	13	7.8	e6.8	5.7	8.1
14	9.0	10	e8.0	e9.0	9.4	e8.4	26	13	7.8	e6.6	5.5	7.3
15	8.9	9.4	e7.0	10	e9.4	e8.4	25	13	7.2	e6.0	5.2	6.8
16	8.9	9.5	e6.4	e6.0	9.4	9.6	19	12	7.0	e6.3	5.2	6.9
17	8.9	9.4	e6.0	e6.0	9.1	9.1	16	12	e7.1	6.2	5.3	7.2
18	8.9	9.4	e6.0	e6.0	8.6	7.7	15	12	e7.2	6.6	5.3	6.9
19	8.9	9.0	e6.4	e6.2	8.7	e7.6	15	12	e7.3	5.7	5.2	6.9
20	8.9	8.6	e7.0	e7.0	8.5	10	16	e12	7.4	5.7	5.0	6.9
21	9.0	9.3	7.4	e7.4	8.6	12	14	e12	6.7	5.4	5.0	6.5
22	9.1	9.7	e7.4	e6.0	9.8	14	14	11	6.7	5.4	5.7	6.4
23	9.0	9.0	e7.0	e6.2	12	13	15	12	6.3	5.6	5.8	6.2
24	9.0	7.9	e6.6	e6.8	9.7	10	18	11	6.5	18	5.9	6.2
25	9.0	6.2	e6.2	e7.2	10	9.3	20	11	6.4	11	5.7	6.4
26	8.9	e6.2	e6.0	7.4	e9.4	11	21	11	6.3	6.2	5.6	6.4
27	8.9	e7.0	e6.2	6.9	10	13	17	10	6.3	6.1	5.6	6.3
28	9.0	e8.4	e7.0	6.2	9.5	16	15	9.9	6.0	6.0	5.6	6.7
29	8.9	e9.9	9.2	e5.6	---	17	17	9.7	6.4	6.0	5.7	27
30	9.0	e9.6	9.4	e5.6	---	16	18	9.3	7.0	6.5	5.8	16
31	11	---	9.2	e5.6	---	18	---	9.1	---	6.8	5.8	---
TOTAL	282.2	273.9	239.6	225.2	253.4	323.0	614	380.0	225.9	209.1	180.2	298.8
MEAN	9.103	9.130	7.729	7.265	9.050	10.42	20.47	12.26	7.530	6.745	5.813	9.960
MAX	11	11	9.7	10	12	18	29	15	9.4	18	6.8	45
MIN	8.5	6.2	6.0	5.6	6.0	7.0	14	9.1	6.0	5.4	5.0	5.7
AC-FT	560	543	475	447	503	641	1220	754	448	415	357	593

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2002, BY WATER YEAR (WY)

MEAN	12.53	11.53	10.39	10.01	11.79	18.10	55.19	143.4	69.37	22.39	17.10	13.97
MAX	38.4	24.1	21.3	17.7	18.6	39.5	140	489	428	69.9	59.7	46.8
(WY)	1973	1988	1984	1984	1947	1995	1985	1973	1983	1983	1968	1998
MIN	6.17	5.95	5.78	6.41	7.40	9.10	17.1	12.3	7.53	6.75	5.81	6.33
(WY)	1991	1978	1991	1951	1960	1951	1975	2002	2002	2002	2002	1956

10242000 COAL CREEK NEAR CEDAR CITY, UT--Continued

SUMMARY STATISTICS

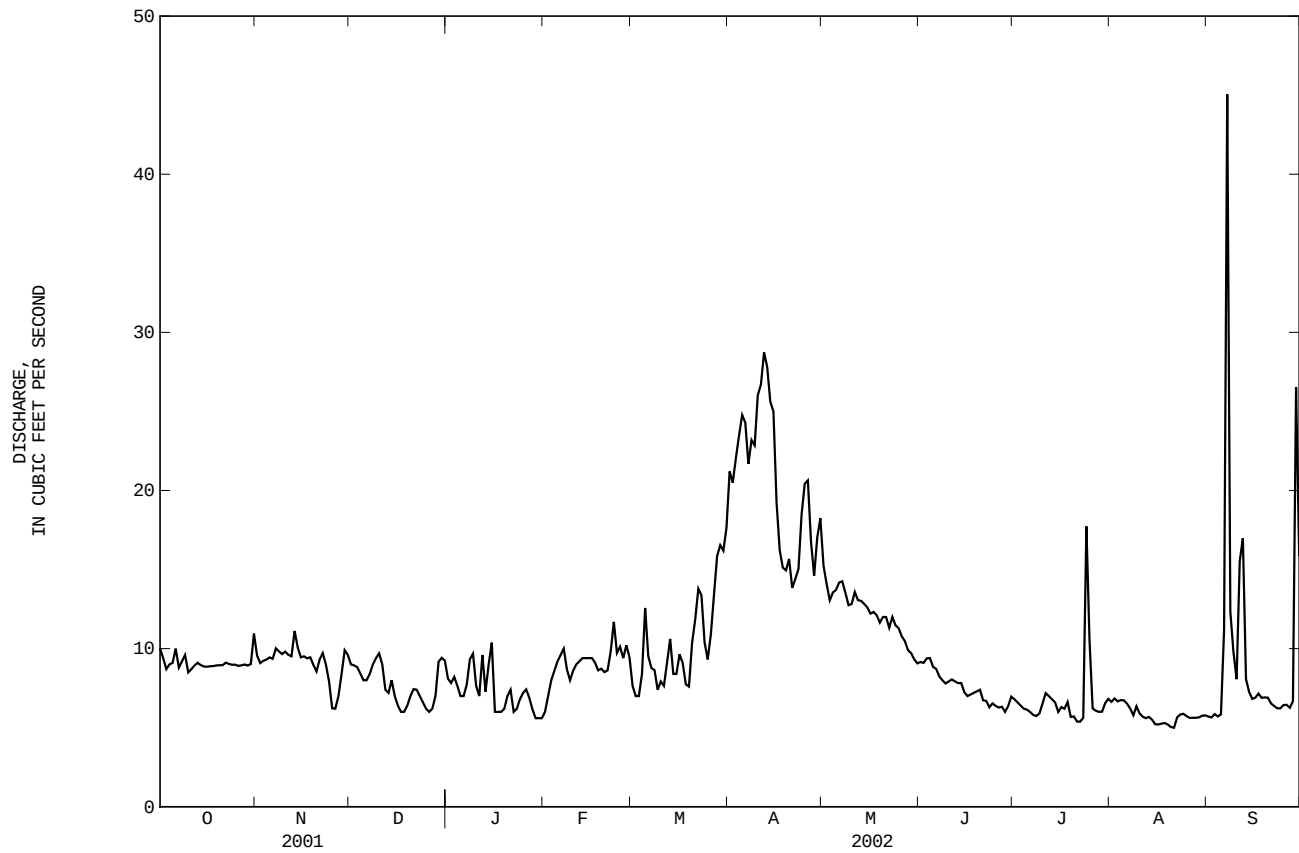
FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1939 - 2002

ANNUAL TOTAL	11685.5	3505.3	33.09	
ANNUAL MEAN	32.02	9.604	86.0	1983
HIGHEST ANNUAL MEAN			9.60	2002
LOWEST ANNUAL MEAN			1080	May 31 1983
HIGHEST DAILY MEAN	295	May 17	45	Sep 7
LOWEST DAILY MEAN	6.0	Dec 17	5.0	Aug 20
ANNUAL SEVEN-DAY MINIMUM	6.6	Dec 15	5.2	Aug 15
ANNUAL RUNOFF (AC-FT)	23180	6950	23970	
10 PERCENT EXCEEDS	69	15	75	
50 PERCENT EXCEEDS	13	8.7	13	
90 PERCENT EXCEEDS	8.9	5.9	7.8	

e Estimated



GREEN RIVER BASIN

402427109260201 ASHLEY CREEK ABOVE PIPELINE DIVERSION NR NAPLES, UT

LOCATION.--Lat 40°24'27", long 109°26'02", in SE¹/₄Sw¹/₄Sw¹/₄ sec. 10, T. 5 S., R. 22 E., Uintah County, Hydrologic Unit 14060002, on left bank east of Naples.

DRAINAGE AREA.--Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to September, 2002 (seasonal).

GAGE.--Water-stage recorder. Elevation of gage is 4,870 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 13 ft³/s, Jun 22, 2002; minimum daily discharge, 0.21 ft³/s, Sep 1, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 13 ft³/s, Jun 22; minimum daily discharge, 0.21 ft³/s, Sep 1.

DISCHARGE, CUBIC FEET PER SECOND, MAY 2002 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	6.3	8.7	6.5	0.21
2	---	---	---	---	---	---	---	---	2.5	7.6	6.8	0.23
3	---	---	---	---	---	---	---	---	2.5	9.9	6.0	0.32
4	---	---	---	---	---	---	---	---	e3	7.6	4.6	0.29
5	---	---	---	---	---	---	---	---	e6	6.7	5.8	0.41
6	---	---	---	---	---	---	---	---	e6	6.7	8.1	0.44
7	---	---	---	---	---	---	---	---	5.9	4.2	8.0	0.73
8	---	---	---	---	---	---	---	---	5.0	5.2	4.5	0.80
9	---	---	---	---	---	---	---	---	5.9	5.0	3.2	1.3
10	---	---	---	---	---	---	---	e8	3.9	5.0	4.0	1.1
11	---	---	---	---	---	---	---	e9	5.8	5.2	3.9	1.7
12	---	---	---	---	---	---	---	e9	5.5	6.6	4.4	6.6
13	---	---	---	---	---	---	---	e8	5.5	11	2.7	8.8
14	---	---	---	---	---	---	---	e8	4.9	8.4	4.6	2.2
15	---	---	---	---	---	---	---	e8	6.1	8.1	1.7	3.3
16	---	---	---	---	---	---	---	e8	7.6	7.6	0.48	5.8
17	---	---	---	---	---	---	---	e7	11	9.8	0.38	3.8
18	---	---	---	---	---	---	---	e7	9.7	6.4	0.34	3.0
19	---	---	---	---	---	---	---	e7	7.3	3.8	0.50	3.1
20	---	---	---	---	---	---	---	e8	8.1	4.3	0.78	6.4
21	---	---	---	---	---	---	---	e8	12	8.9	0.64	8.1
22	---	---	---	---	---	---	---	e9	13	9.3	0.43	4.4
23	---	---	---	---	---	---	---	e9	9.0	7.7	0.47	4.3
24	---	---	---	---	---	---	---	e6	12	7.2	0.39	8.3
25	---	---	---	---	---	---	---	e7	9.4	7.1	0.33	9.3
26	---	---	---	---	---	---	---	e8	7.9	11	0.68	7.0
27	---	---	---	---	---	---	---	e8.0	7.2	8.4	0.88	8.8
28	---	---	---	---	---	---	---	5.8	4.4	4.8	0.48	3.9
29	---	---	---	---	---	---	---	5.1	7.0	5.9	0.29	5.1
30	---	---	---	---	---	---	---	6.9	8.1	6.4	0.25	6.1
31	---	---	---	---	---	---	---	3.4	---	6.6	0.22	---
MEAN	---	---	---	---	---	---	---	---	6.950	7.132	2.656	3.861
MAX	---	---	---	---	---	---	---	---	13	11	8.1	9.3
MIN	---	---	---	---	---	---	---	---	2.5	3.8	0.22	0.21

e Estimated

402427109260201 ASHLEY CREEK ABOVE PIPELINE DIVERSION NEAR NAPLES, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 2002 to September 30, 2002.

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

Date	Time	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	BARO- METRIC PRES- SURE (MM OF HG) (000025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	GAGE HEIGHT (FEET) (00065)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
MAY 21...	1250	14	631	--	--	8.3	1810	13.9	3.93	1530	69.5
JUN 19...	0915	5.4	--	--	--	7.9	1730	--	3.83	1420	73.1
JUL 10...	1110	3.3	645	160	11.4	8.2	1440	23.4	3.76	1090	55.7
24...	1720	2.7	--	--	--	8.4	1460	25.0	3.86	1170	99.5
AUG 15...	1250	2.4	633	169	12.0	8.4	1360	22.4	3.78	1010	73.6

403258112123201 BIG SPRING IN PINE CANYON NEAR TOOELE, UT

LOCATION.--Lat 40°32'58", long 112°12'32, in SE¹/₄NE¹/₄NW¹/₄ sec. 20, T. 3 S., R. 3 W., Tooele County, Hydrologic Unit 16020304.

DRAINAGE AREA.--Not determined.

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

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,560 ft above NGVD of 1929, from topographic map.

REMARKS.--Owned by Kennecott Utah Copper. Records good except for estimated daily discharges, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3.0 ft³/s, Jun 2, 2001; minimum discharge, 0.40 ft³/s, Feb 8, 23, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.2 ft³/s, May 30, 31, Jun 1, gage height, 0.67 ft; minimum discharge, 0.40 ft³/s, Feb 8, 23.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.62	e0.58	e0.56	0.55	0.46	0.46	0.43	1.1	2.1	0.97	0.77	0.70
2	e0.61	e0.58	e0.56	0.55	0.46	0.46	0.43	1.1	2.1	0.95	0.77	0.69
3	e0.61	e0.58	e0.56	0.55	0.46	0.46	0.43	1.1	2.1	0.94	0.77	0.65
4	e0.61	e0.58	e0.55	0.55	0.46	0.46	0.43	1.1	2.1	0.92	0.77	0.64
5	e0.61	e0.58	e0.55	0.53	0.46	0.46	0.44	1.2	2.1	0.90	0.77	0.64
6	e0.60	e0.58	e0.55	0.51	0.46	0.46	0.46	1.2	2.1	0.88	0.77	0.64
7	e0.60	e0.58	e0.55	0.51	0.46	0.46	0.46	1.2	2.0	0.87	0.77	0.64
8	e0.60	e0.58	e0.55	0.51	0.45	0.47	0.46	1.3	2.0	0.86	0.77	0.64
9	e0.60	e0.58	e0.55	0.51	0.43	0.46	0.46	1.4	2.0	0.84	0.77	0.63
10	e0.59	e0.58	e0.55	0.51	0.43	0.46	0.47	1.5	2.0	0.84	0.77	0.61
11	e0.59	e0.58	e0.55	0.51	0.43	0.46	0.48	1.5	2.0	0.83	0.76	0.61
12	e0.59	e0.58	e0.55	0.49	0.44	0.46	0.50	1.6	1.9	0.83	0.74	0.61
13	e0.59	e0.57	e0.55	0.48	0.46	0.46	0.52	1.6	1.9	0.81	0.74	0.61
14	e0.59	e0.57	e0.55	0.48	0.46	0.46	0.57	1.7	1.8	0.81	0.74	0.61
15	e0.59	e0.57	e0.55	0.48	0.46	0.44	0.63	1.7	1.8	0.79	0.74	0.61
16	e0.59	e0.57	e0.55	0.48	0.46	0.43	0.69	1.8	1.7	0.77	0.74	0.62
17	e0.58	e0.57	e0.55	0.48	0.46	0.47	0.74	1.8	1.7	0.78	0.74	0.61
18	e0.58	e0.57	e0.55	0.48	0.46	0.46	0.76	1.9	1.6	0.83	0.72	0.59
19	e0.58	e0.57	0.55	0.48	0.46	0.46	0.82	1.9	1.5	0.81	0.72	0.58
20	e0.58	e0.57	0.55	0.48	0.46	0.46	0.84	2.0	1.4	0.81	0.74	0.58
21	e0.58	e0.57	0.55	0.48	0.46	0.46	0.87	2.0	1.3	0.79	0.71	0.58
22	e0.58	e0.57	0.55	0.49	0.46	0.46	0.94	2.0	1.3	0.80	0.67	0.58
23	e0.58	e0.57	0.55	0.48	0.45	0.46	0.98	2.0	1.2	0.79	0.69	0.58
24	e0.58	e0.57	0.55	0.48	0.45	0.46	1.1	2.0	1.2	0.79	0.67	0.58
25	e0.58	e0.57	0.55	0.48	0.43	0.46	1.1	2.0	1.2	0.77	0.67	0.58
26	e0.58	e0.57	0.55	0.48	0.43	0.46	1.1	2.1	1.1	0.77	0.67	0.58
27	e0.58	e0.57	0.55	0.48	0.43	0.46	1.1	2.1	1.1	0.77	0.67	0.58
28	e0.58	e0.57	0.55	0.48	0.45	0.46	1.1	2.1	1.1	0.77	0.67	0.58
29	e0.58	e0.56	0.55	0.48	---	0.46	1.1	2.1	1.0	0.77	0.68	0.58
30	e0.58	e0.55	0.55	0.48	---	0.46	1.1	2.1	1.0	0.77	0.70	0.58
31	e0.58	---	0.55	0.47	---	0.46	---	2.1	---	0.77	0.70	---
TOTAL	18.29	17.19	17.08	15.40	12.64	14.23	21.51	52.3	49.40	25.60	22.58	18.31
MEAN	0.590	0.573	0.551	0.497	0.451	0.459	0.717	1.687	1.647	0.826	0.728	0.610
MAX	0.62	0.58	0.56	0.55	0.46	0.47	1.1	2.1	2.1	0.97	0.77	0.70
MIN	0.58	0.55	0.55	0.47	0.43	0.43	0.43	1.1	1.0	0.77	0.67	0.58

e Estimated

403835112171801 MILL SPRING NEAR ERDA, UT

LOCATION.--Lat 40°38'35", long 112°17'18, in SW¹/₄NE¹/₄SW¹/₄ sec. 15, T. 2 S., R. 4 W., Tooele County, Hydrologic Unit 16020304.

DRAINAGE AREA.--Not determined.

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

GAGE.--Water-stage recorder. Elevation of gage is 4,300 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 16.0 ft³/s, Jul 17, 2002; minimum daily discharge, 0.67 ft³/s, Oct 14, 2001.EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 16 ft³/s, Jul 17; minimum daily discharge, 0.67 ft³/s, Oct 14.DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e6.7	8.2	8.6	12	13	12	13	9.4	e14	9.7	7.2	7.0
2	e7.5	7.4	8.7	12	13	11	13	7.5	e14	10	7.2	5.4
3	7.9	7.2	9.2	12	13	11	12	7.8	e14	13	7.0	7.0
4	9.3	7.1	9.3	12	13	11	13	8.0	e14	12	6.7	6.8
5	8.0	7.1	e9.3	12	11	12	14	9.2	e14	13	4.8	6.7
6	7.9	7.2	e9.3	12	9.1	12	14	9.1	14	13	5.1	6.7
7	8.2	7.1	e9.3	13	8.7	12	14	8.4	14	12	7.0	6.7
8	8.1	7.1	e9.3	13	8.6	13	11	6.6	14	12	7.2	6.6
9	7.2	7.1	e9.3	13	8.6	14	3.4	6.8	13	11	7.3	2.6
10	7.1	7.1	e9.3	13	8.5	14	3.3	7.6	6.7	13	7.1	6.7
11	7.4	7.2	e9.3	13	8.5	14	3.3	7.1	11	13	7.1	7.6
12	2.7	7.2	e9.3	13	8.4	14	7.4	5.3	14	13	2.2	7.1
13	0.69	7.3	e9.3	13	8.5	15	15	0.94	14	13	5.6	7.0
14	0.67	7.3	e9.3	13	8.4	14	14	e4.5	14	12	8.1	7.0
15	0.70	7.3	e9.3	13	8.4	12	13	e8.0	15	6.3	8.0	7.1
16	8.2	7.3	e9.3	13	8.4	12	12	e9.5	15	5.1	7.6	7.3
17	9.2	7.4	e9.3	13	8.4	12	3.4	e11	11	16	7.7	8.0
18	9.0	7.5	e9.3	13	8.4	11	3.3	e12	11	14	7.8	7.5
19	8.5	7.4	e9.3	13	8.4	11	3.2	e13	13	14	7.7	7.4
20	8.7	7.4	e9.3	13	8.5	11	3.2	e13	14	9.2	7.6	7.5
21	8.8	7.5	9.1	13	8.6	11	6.0	e13	13	5.1	7.4	7.7
22	8.6	7.9	9.0	13	e9.0	11	14	e13	13	11	7.3	7.8
23	5.2	7.9	8.9	13	e9.5	11	14	e13	13	13	7.2	7.8
24	8.5	7.7	8.8	13	e10	11	13	e12	6.4	13	7.2	7.9
25	9.7	8.1	8.7	13	e10	11	14	e11	12	13	7.2	7.9
26	9.2	8.1	8.7	13	e11	11	15	e10	14	13	3.4	7.9
27	7.7	8.4	9.2	12	12	11	15	e10	13	12	5.8	7.9
28	2.0	8.4	10	13	12	12	8.4	e10	13	12	7.4	7.8
29	2.1	8.7	11	13	---	13	5.6	e11	13	6.9	7.2	7.7
30	2.0	8.7	12	13	---	12	8.1	e12	13	8.1	7.1	8.1
31	5.8	---	12	13	---	13	---	e13	---	7.6	7.2	---
MEAN	6.557	7.577	9.419	12.77	9.746	12.10	10.05	9.443	12.90	11.26	6.787	7.140
MAX	9.7	8.7	12	13	13	15	15	13	15	16	8.1	8.1
MIN	0.67	7.1	8.6	12	8.4	11	3.2	0.94	6.4	5.1	2.2	2.6

e Estimated

HYDROLOGIC DATA AT UNION PACIFIC RAILROAD CAUSEWAY
GREAT SALT LAKE BASIN

STATION NUMBER	STATION NAME	DATE	(CFS) DISCHARGE SOUTH TO NORTH	(CFS) DISCHARGE NORTH TO SOUTH
10010020	GSL UPR CAUSEWAY BREACH AT LAKESIDE, UT	11/07/01	484	188
		03/21/02	1370	145
		05/09/02	2580	353
		06/13/02	945	411
		07/08/02	138	1410
		08/14/02	995	190
10010030	GSL UPR N CAUSEWAY WEST CULVERT	11/07/01	0	13
		03/21/02	0	22
		05/09/02	0	99
		06/13/02	0	119
		07/08/02	0	141
		08/14/02	0	97
10010040	GSL UPR N CAUSEWAY EAST CULVERT	11/07/01	0	73
		03/21/02	070	030
		05/09/02	129	81
		06/13/02	23	131
		07/08/02	0	155
		08/14/02	0	125

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2002

STREAM	TRIBUTARY TO	LOCATION	MEASUREMENTS	
			DATE	DISCHARGE (ft ³ /s)
SEVIER LAKE BASIN				
Manti Creek	Sevier River	Lat 39°15'23", long 111°37'16"		
		Sanpete County		
		Upstream of diversion	02-12-02	3.62
		Downstream of diversion	02-12-02	3.06
COLORADO RIVER BASIN				
Paria River	Colorado River	Lat 37°30'37", long 112°02'01"		
		2.8 mi upstream of 09381500	03-28-02	1.69
			04-02-02	3.96
		Lat 37°29'31", long 112°01'25"	04-02-02	4.40
		1.0 mi upstream of 09381500		
WEBER RIVER BASIN				
Kimball Crk abv confluence w/ East Canyon Crk	East Canyon Crk	Lat 40°43'27", long 111°31'02"		
		Summit County	04-01-02	40.6
CEDAR VALLEY, IRON COUNTY				
Coal Creek		4 mi upstream of 10242000	08-23-02	5.61

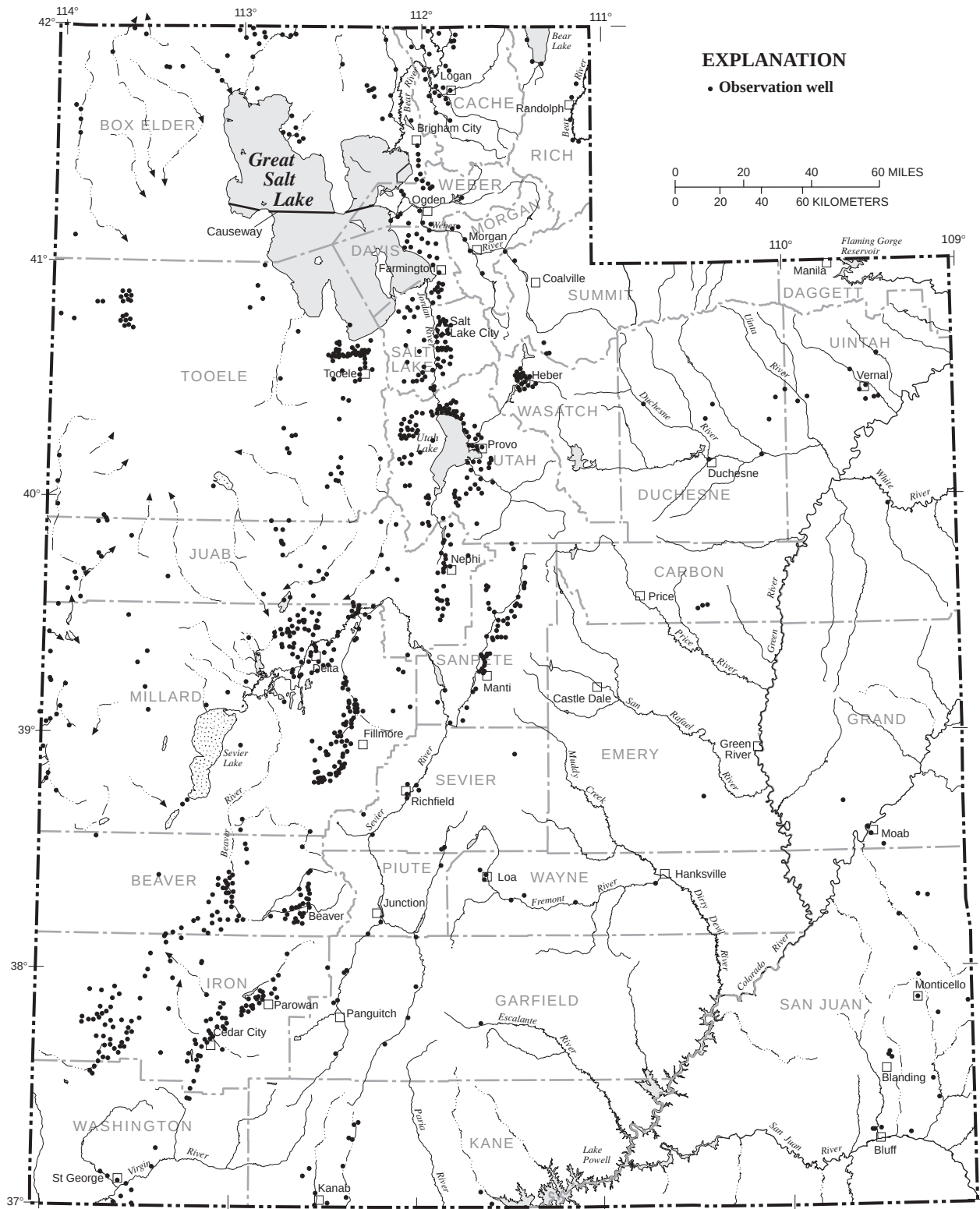


Figure 11. Location of observation wells in Utah where data were obtained on ground-water levels.

BOX ELDER COUNTY

414236112101201. LOCAL NUMBER, (B-11-3)10abb-4.

LOCATION.--Lat 41°42'36", long 112°10'12", Hydrologic Unit 16010204.

Owner: Rocky Mountain Packing Company.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 705 ft, cased to 437 ft.

DATUM.--Land-surface datum is 4,318 ft above NGVD of 1929. Measuring point: Top of casing, 0.50 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--October 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.00 ft below land-surface datum, Jul 27, Sep 12, 1984; lowest, 25.77 ft below land-surface datum, May 19, 20, 1993.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.34	23.47	23.45	23.71	24.06	24.34	24.58	24.72	24.72	24.44	24.13	23.88
10	23.32	23.49	23.47	23.78	24.12	24.32	24.59	24.76	24.65	24.45	24.13	23.84
15	23.39	23.47	23.46	23.80	24.14	24.33	24.59	24.80	24.64	24.35	24.04	23.78
20	23.41	23.52	23.52	23.86	24.09	24.43	24.64	24.75	24.58	24.32	23.97	23.72
25	23.41	23.42	23.65	23.91	24.18	24.43	24.75	24.76	24.54	24.30	23.99	23.72
EOM	23.43	23.45	23.66	23.86	24.27	24.52	24.67	24.75	24.49	24.21	23.93	23.68

414411112543701. LOCAL NUMBER, (B-12-9)30cda-1.

LOCATION.--Lat 41°44'11", long 112°54'37", Hydrologic Unit 16020309.

Owner: U.S. Geological Survey.

AQUIFER.--Basalt.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in., depth 162 ft, cased to 131 ft.

DATUM.--Land-surface datum is 4,239 ft above sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

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

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.08 ft below land-surface datum, May 25, 31, Jul 25, 1987; lowest, 25.92 ft below land-surface datum, Sep 30, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e25.92	25.99	26.00	e25.89	e25.78	25.68	25.51	25.36	e25.36	e25.49	25.63	25.84
10	e25.93	26.00	25.98	e25.87	e25.76	25.65	25.50	25.35	e25.38	e25.51	25.66	25.86
15	e25.95	26.01	e25.96	e25.85	e25.75	25.63	25.44	25.33	e25.40	25.52	25.68	25.88
20	25.97	26.02	e25.94	e25.84	e25.73	25.61	25.44	25.29	e25.43	25.55	25.73	25.89
25	26.02	26.01	e25.92	e25.82	e25.71	25.59	25.39	e25.31	e25.45	25.56	25.80	25.92
EOM	25.99	26.01	e25.91	e25.80	e25.70	25.55	25.36	e25.34	e25.47	25.60	25.83	25.93

e Estimated

415703112514501. LOCAL NUMBER, (B-14-9)9add-1.

LOCATION.--Lat 41°57'03", long 112°51'45", Hydrologic Unit 16020309.

Owner: Cyprus Farms Inc.

AQUIFER.--Basalt.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 20 in., depth 400 ft, cased to 395 ft.

DATUM.--Land-surface datum is 4,384 ft above NGVD of 1929. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 160.12 ft below land-surface datum, Apr 16, 1988; lowest, 189.78 ft below land-surface datum, Sep 24, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	182.00	176.41	172.26	170.96	170.00	169.25	168.75	168.84	179.88	182.08	183.50	185.23
10	181.29	175.16	171.75	170.72	169.99	169.25	168.84	169.18	180.38	183.42	181.49	184.35
15	180.80	174.32	171.52	170.28	169.79	169.10	168.36	171.89	180.30	183.53	179.87	185.82
20	179.50	173.57	171.30	170.23	169.60	169.21	168.59	174.86	181.45	184.98	181.84	187.76
25	179.92	172.89	171.38	170.09	169.57	169.02	168.46	176.16	181.72	185.48	183.63	189.02
EOM	179.24	172.58	170.95	170.18	169.25	168.95	168.28	178.67	181.28	186.60	184.35	189.58

GROUND-WATER LEVELS

IRON COUNTY

375241112471001. LOCAL NUMBER, (C-34-8)5bca-1.

LOCATION.--Lat 37°52'41", long 112°47'20", Hydrologic Unit 16030006.

Owner: Paragonah Canal Company.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 420 ft.

DATUM.--Elevation of land-surface datum is 5,802 ft above NGVD of 1929. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--September 1935 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.45 ft below land-surface datum, Jun 26, 1949; lowest, 56.78 ft below land-surface datum, Sep 29 and 30, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	52.65	52.89	53.23	53.51	53.57	53.54	53.86	54.10	54.69	54.30	55.18	56.24
10	52.66	52.84	53.18	53.50	53.65	53.79	53.97	54.09	53.38	54.47	55.33	56.45
15	52.74	53.06	52.88	53.32	53.53	53.77	53.84	53.98	53.54	54.59	55.49	56.48
20	52.70	52.97	53.27	53.16	53.58	53.87	53.98	54.16	53.78	54.64	55.68	56.32
25	52.83	52.62	53.38	53.59	53.69	53.73	53.97	54.64	53.97	54.79	55.83	56.53
EOM	52.95	53.10	53.41	53.65	53.45	53.92	53.82	54.50	54.18	54.98	56.11	56.76

374252113391801. LOCAL NUMBER, (C-35-16)33bcc-1.

LOCATION.--Lat 37°42'52", long 113°39'18", Hydrologic Unit 16030006.

Owner: Charles F. Twitchell

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused irrigation water-table well, diameter 16 in., cased to 160 ft, sounded to 125.45 ft on Jul 17, 2000.

DATUM.--Elevation of land-surface datum is 5,175.11 ft above sea level. Measuring point: Top of casing, 0.55 ft above land-surface datum.

REMARKS.--There are several nearby pumped wells. Records good. Well was dry from Oct 1 to Mar 25.

PERIOD OF RECORD.--September 1947 to 1953, 1955 to March 2002 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.06 ft below land-surface datum, Sep 11, 1947; lowest, 127.86 ft below land-surface datum, Aug 29, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	125.40	125.41	125.48	125.55	125.42	125.40	---	---	---	---	---	---
10	125.40	125.41	125.47	125.55	125.42	125.40	---	---	---	---	---	---
15	125.40	125.45	125.50	125.55	125.42	125.40	---	---	---	---	---	---
20	125.40	125.45	125.50	125.55	125.43	125.40	---	---	---	---	---	---
25	125.40	125.46	125.51	125.55	125.42	---	---	---	---	---	---	---
EOM	125.40	125.48	125.55	125.55	125.41	---	---	---	---	---	---	---

374252113385801. LOCAL NUMBER, (C-35-16)33bdc-2.

LOCATION.--Lat 37°42'52", long 113°38'58", Hydrologic Unit 16030006.

Owner: Charles F. Twitchell

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused irrigation well, diameter 16 in., drilled to 191 ft, cased to 179 ft.

DATUM.--Elevation of land-surface datum is 5,175 ft above NGVD of 1929. Measuring point: Hole in side of casing at land-surface datum.

REMARKS.--There are several nearby pumped wells. Records good except for period from Aug 22 to Sep 30, which degrades from good to poor.

PERIOD OF RECORD.--March 2002 to September 2002.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 128.74 ft below land-surface datum, Apr 1, 2002; lowest, 141.98 ft below land-surface datum, Sep 8, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	128.87	132.70	134.73	138.21	139.29	141.14
10	---	---	---	---	---	---	129.53	132.34	133.88	138.01	140.10	139.31
15	---	---	---	---	---	---	130.50	134.23	133.97	136.95	139.46	138.51
20	---	---	---	---	---	---	130.30	134.96	135.51	135.91	140.38	138.33
25	---	---	---	---	---	---	131.45	134.72	136.89	136.26	140.35	138.31
EOM	---	---	---	---	---	128.82	132.15	135.54	137.62	138.15	141.32	138.01

GROUND-WATER LEVELS

361

IRON COUNTY--Continued

374132113063601. LOCAL NUMBER, (C-36-11)8aab-1.

LOCATION.--Lat 37°41'32", long 113°06'36", Hydrologic Unit 16030006.

Owner: Cedar City Corporation.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., cased to 220 ft.

DATUM.--Land-surface datum is 5,563 ft above NGVD of 1929. Measuring point: Top of casing, 5.2 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--September 1935 to December 1943, March 1945 to March 1973, April 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.67 ft below land-surface datum, Sep 27, 1943; lowest (dry), 115.11 ft below land-surface datum, Sep 26 to Sep 30, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	102.40	97.67	92.72	89.16	86.34	83.97	84.21	89.77	99.34	107.44	110.46	115.09
10	102.33	96.72	91.87	88.73	86.01	83.54	85.49	91.74	100.44	108.51	111.21	115.09
15	101.57	95.87	91.42	88.10	85.55	83.09	85.57	93.65	101.62	109.27	112.19	115.09
20	100.73	94.87	90.70	87.72	85.20	82.90	85.95	95.33	103.19	109.73	113.21	115.10
25	100.04	94.08	90.26	87.19	84.89	82.63	87.60	96.48	104.78	109.41	114.20	115.10
EOM	98.78	93.41	89.60	86.83	84.28	82.41	88.57	98.38	106.15	109.53	114.97	115.11

373735113393801. LOCAL NUMBER, (C-36-16)29daa-1.

LOCATION.--Lat 37°37'35", long 113°39'38", Hydrologic Unit 16030006.

Owner: George Gardner.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 14 in., cased to 380 ft.

DATUM.--Land-surface datum is 5,233.36 ft above NGVD of 1929. Measuring point: Top of casing, 1.50 ft above land-surface datum.

REMARKS.--Records good except for estimated days, which are poor. There are several nearby pumped wells.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 167.63 ft below land-surface datum, Apr 12, 1990; lowest, 211.66 ft below land-surface datum, Sep 5, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	199.04	197.06	195.64	194.47	193.22	192.25	191.59	e200.9	200.72	207.69	209.32	211.44
10	198.53	196.75	194.90	194.12	193.26	192.20	e193.0	201.60	199.45	206.84	210.16	210.53
15	198.09	196.54	194.84	193.68	192.89	191.99	e194.6	202.96	203.41	203.63	209.82	210.28
20	198.84	196.17	194.71	193.64	192.89	192.12	e196.1	204.20	205.60	204.05	209.88	206.35
25	198.29	195.73	194.86	193.54	192.60	191.79	e197.7	203.52	207.07	207.25	208.31	205.57
EOM	197.47	195.68	194.45	193.58	192.09	191.65	e199.3	204.49	207.95	208.84	211.14	205.52

e Estimated

JUAB COUNTY

393143111523301. LOCAL NUMBER, (C-15-1)12aba-1.

LOCATION.--Lat 39°31'43", long 111°52'33", Hydrologic Unit 16030005.

Owner: R. C. Mangelson.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled stock artesian well, diameter 6 in., depth 117 ft, cased to 117 ft.

DATUM.--Land-surface datum is 5,196.90 ft above sea level. Measuring point: Top of casing, 1.50 ft above land-surface datum.

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

PERIOD OF RECORD.--August 1935 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 28.41 ft below land-surface datum, May 21, 1985; lowest recorded, 71.51 ft below land-surface datum, Aug 27, 1993.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	67.24	e66.92	66.95	67.04	67.02	66.97	66.91	67.32	68.57	69.76	70.51	71.29
10	67.01	e66.94	66.92	67.05	67.03	66.95	66.91	67.79	68.87	69.96	70.72	71.19
15	e66.94	66.92	66.94	67.00	67.01	66.94	67.53	67.53	68.99	70.12	70.81	70.96
20	e66.92	66.92	66.96	67.00	67.01	66.98	67.26	67.78	69.17	70.24	70.87	70.92
25	e66.94	66.89	67.02	67.00	67.00	66.94	67.14	67.99	69.42	70.44	71.00	70.92
EOM	e66.94	66.93	67.00	67.04	66.91	66.93	67.09	68.12	69.60	70.40	71.15	70.87

e Estimated

KANE COUNTY

370650112331002 . LOCAL NUMBER, (C-42-6)32cba-2.

LOCATION.--Lat 37°06'50", long 112°33'10", Hydrologic Unit 15010003.

Owner: Kanab City.

AQUIFER.--Navajo Sandstone.

WELL CHARACTERISTICS.--Drilled well, diameter 6 in., cased to 230 ft.

DATUM.--Elevation of land-surface datum is 5,180.00 ft above NGVD of 1929. Measuring point: Top of casing, 2.00 ft above land-surface datum.

REMARKS.--Records good except for estimated days, which are fair. Formerly published as 370523112334702, (C-42-6)30dcc-2.

PERIOD OF RECORD.--December 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 53.30 ft below land-surface datum, Apr. 25, 1986; lowest, 70.91 ft below land-surface datum, Sept. 14, 1999, but may have been lower during estimated period from Sept. 16 to Sept. 30, 1999.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	69.14	70.51	69.20	69.84	69.23	69.40	70.15	71.17	71.67	71.62	70.39	69.93
10	69.60	70.48	69.13	70.14	69.08	69.77	70.38	71.23	71.50	71.33	70.17	69.80
15	69.82	70.06	69.48	70.36	68.92	69.70	70.55	71.32	71.05	71.11	70.01	69.66
20	69.98	69.76	69.41	69.95	68.77	69.45	70.75	71.39	70.79	70.80	70.56	69.55
25	70.19	69.55	69.56	69.66	68.65	69.54	70.93	71.50	71.30	70.54	70.38	69.38
EOM	70.33	e69.3	69.27	69.44	69.00	69.94	71.05	71.59	71.60	70.30	70.10	69.28

e Estimated

MILLARD COUNTY

393020112362201. LOCAL NUMBER, (C-15-7)23bac-1.

LOCATION.--Lat 39°30'20", long 112°36'22", Hydrologic Unit 16030007.

Owner: U.S. Geological Survey.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 182 ft.

DATUM.--Elevation of land-surface datum is 4,629 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS. - -Records good.

PERIOD OF RECORD.--August 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.57 ft below land-surface datum, Mar 3, 1989; lowest, 15.91 ft below land-surface datum, Oct 16, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	10.21	10.14	9.81	9.59	9.50	9.22	9.14	9.46	10.10	10.90	11.66	12.29
10	10.22	10.09	9.70	9.59	9.50	9.19	9.18	9.53	10.22	11.07	11.80	12.36
15	10.21	10.03	9.66	9.54	9.39	9.15	9.12	9.62	10.37	11.17	11.85	12.40
20	10.16	10.01	9.65	9.54	9.34	9.19	9.24	9.71	10.49	11.31	11.92	12.43
25	10.23	9.85	9.68	9.53	9.31	9.14	9.31	9.85	10.62	11.47	12.09	12.45
EOM	10.15	9.81	9.59	9.51	9.22	9.15	9.35	9.95	10.76	11.54	12.19	12.44

390623113084101. LOCAL NUMBER, (C-20-12)1aac-1.

LOCATION.--Lat 39°06'23", long 113°08'41", Hydrologic Unit 16030009.

Owner: U.S. Geological Survey.

OWNER: U.S. Geological Survey.
AQUIFER: --Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 2 in., hole depth 150 ft, perforated 127 to 145 ft.

DATUM.--Elevation of land-surface datum is 4,543.77 ft above sea level. Measuring point: Top of inside steel casing, 1.0 ft above land-surface datum.

REMARKS. -- Records good.

PERIOD OF RECORD.--August 1980-82, 1984, 1986-92, 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 55.10 ft below land-surface datum, Apr, 1999; lowest, 56.79 ft below land-surface datum, Jul 22, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	55.19	NOV 14	55.23	JAN 09	55.18	SEP 04	55.13
WATER YEAR 2002		HIGHEST	55.13	SEP 04, 2002		LOWEST	55.23 NOV 14, 2001

MILLARD COUNTY--Continued

385844112245801. LOCAL NUMBER, (C-21-5)21aba-1.

LOCATION.--Lat 38°58'44", long 112°24'58", Hydrologic Unit 16030005.

Owner: Delyle Carling.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., hole depth 246 ft, cased to 220 ft.

DATUM.--Elevation of land-surface datum is 4,744.44 ft above NGVD of 1929. Measuring point: Top of casing, 2.45 ft above land-surface datum. Casing extended 1.95 ft, May 6, 1998.

REMARKS.--Records good except for estimated days, which are poor.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.96 ft above land-surface datum, Feb. 24, 1949; lowest, 83.02 ft below land-surface datum, July 20, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL)(FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	44.13	43.83	43.67	43.78	43.74	43.69	44.37	46.42	48.58	50.15	52.10	54.17
10	44.09	43.81	43.66	43.77	43.74	43.72	44.94	46.52	49.04	50.74	52.46	e54.2
15	43.99	43.78	43.76	43.74	43.72	43.69	45.17	46.52	49.38	51.13	52.94	e54.1
20	43.92	43.77	43.83	43.77	43.70	43.71	44.96	47.10	49.58	51.39	53.32	e54.0
25	43.88	43.72	43.82	43.79	43.69	43.71	45.57	47.45	49.80	51.57	53.66	e53.9
EOM	43.84	43.70	43.79	43.76	43.68	43.76	45.91	48.01	49.93	51.68	53.96	e53.8

e Estimated

384906112330601. LOCAL NUMBER, (C-23-6)17baa-1.

LOCATION.--Lat 38°49'06", long 112°33'06", Hydrologic Unit 16030008.

Owner: Brandon George

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 18 in., drilled to depth of 262 ft, cased to 140 ft.

DATUM.--Elevation of land-surface datum is 4,710 ft above NGVD of 1929. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--June 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.20 ft below land-surface datum, Mar. 3, 1989; lowest, 54.03 ft below land-surface, Sept. 6, 1979.

DEPTH BELOW LAND SURFACE (WATER LEVEL)(FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	37.56	36.84	36.56	36.42	36.26	36.06	36.03	38.21	39.07	39.59	40.00	40.31
10	37.40	36.81	36.40	36.40	36.31	36.04	37.12	38.14	39.07	39.69	40.10	40.12
15	37.27	36.74	36.40	36.21	36.23	36.01	37.31	38.32	39.15	39.64	40.17	39.40
20	37.09	36.67	36.38	36.25	36.19	36.10	37.26	38.43	39.34	39.68	40.29	39.14
25	37.09	36.50	36.49	36.23	36.17	36.04	37.69	37.99	39.35	39.89	40.32	39.11
EOM	36.91	36.53	36.36	36.30	35.94	36.03	37.73	38.88	39.46	39.76	40.45	38.96

SALT LAKE COUNTY

404202112064701. LOCAL NUMBER, (C-1-2)30cac-1.

LOCATION.--Lat 40°42'02", long 112°06'47", Hydrologic Unit 16020204.

Owner: Kennecott Utah Copper.

AQUIFER.--Consolidated bedrock.

DATUM.--Elevation of land-surface datum is 4,508 ft above NGVD of 1929.

REMARKS.--Records good; Reported by Kennecott Utah Copper.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 259.54 ft below land surface-datum, Jul 17, 2000; lowest, 270.70 ft below land-surface datum, Jul 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10	262.35	JAN 11	260.64	APR 08	260.25	JUL 08	270.70
WATER YEAR 2002		HIGHEST	260.25	APR 08, 2002		LOWEST	270.70 JUL 08, 2002

GROUND-WATER LEVELS

SALT LAKE COUNTY--Continued

403916111575901. LOCAL NUMBER, (C-2-1)9ccc-1.

LOCATION.--Lat 40°39'16", long 111°57'59", Hydrologic Unit 16020204.

Owner: Salt Lake County Conservancy District.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled artesian unused public supply well, diameter 16 in., depth 795 ft, perforated 187-372 ft.

DATUM.--Elevation of land-surface datum is 4,461 ft above NGVD of 1929. Measuring point: Top of casing, 2.10 ft above land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.75 ft below land-surface datum, Oct 25, 1971; lowest, 86.80 ft below land-surface datum, Jul 25, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	57.58	57.38	57.41	57.76	58.14	58.37	58.65	58.98	59.21	59.18	59.05	58.89
10	57.56	57.40	57.37	57.81	58.25	58.38	58.75	59.01	59.22	59.22	59.04	58.83
15	57.53	57.42	57.43	57.77	58.24	58.39	58.66	59.06	59.19	59.16	58.98	58.80
20	57.44	57.46	57.48	57.86	58.24	58.50	58.76	59.07	59.21	59.14	58.92	58.73
25	57.48	57.28	57.66	57.93	58.33	58.48	58.85	59.14	59.23	59.13	58.96	58.72
EOM	57.36	57.35	57.63	58.06	58.27	58.60	58.85	59.14	59.21	59.10	58.93	58.72

403907112073901. LOCAL NUMBER, (C-2-3)13aba-1.

LOCATION.--Lat 40°39'07", long 112°07'39", Hydrologic Unit 16020204.

Owner: Granger-Hunter Conservancy District

AQUIFER.--Consolidated bedrock.

DATUM.--Elevation of land-surface datum is 5,325 ft above NGVD of 1929.

REMARKS.--Records good; Reported by Kennecott Utah Copper.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 507.02 ft below land-surface datum, Oct 25, 2000; lowest, 513.26 ft below land-surface datum, Feb 12, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 12	513.26	MAY 15	512.02	JUL 19	507.86
WATER YEAR 2002		HIGHEST	507.86	JUL 19, 2002	LOWEST 513.26
		FEB 12, 2002			

403241112053301. LOCAL NUMBER, (C-3-2)20bdd-1.

LOCATION.--Lat 40°32'41", long 112°05'33", Hydrologic Unit 16020204.

Owner: Kennecott Utah Copper

AQUIFER.--Consolidated bedrock.

DATUM.--Elevation of land-surface datum is 5,364 ft above NGVD of 1929.

REMARKS.--Records good; Reported by Kennecott Utah Copper.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 29.71 ft below land-surface datum, Jul 27, 2000; lowest 39.56 ft below land-surface datum, Sep 5, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04	32.71	NOV 07	33.16	FEB 13	33.77	APR 09	34.21	SEP 05	39.56
WATER YEAR 2002		HIGHEST	32.71	OCT 04, 2001	LOWEST	39.56	SEP 05, 2002		

403241112053302. LOCAL NUMBER, (C-3-2)20bdd-2.

LOCATION.--Lat 40°32'41", long 112°05'33", Hydrologic Unit 16020204.

Owner: Kennecott Utah Copper

AQUIFER.--Consolidated bedrock.

DATUM.--Elevation of land-surface datum is 5,364 ft above NGVD of 1929.

REMARKS.--Records good; Reported by Kennecott Utah Copper.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 380.23 ft below land-surface datum, Jul 27, 2000; lowest 384.51 ft below land-surface datum, Sep 6, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05	383.03	FEB 13	383.31	SEP 06	384.51
WATER YEAR 2002		HIGHEST	383.03	OCT 05, 2001	LOWEST 384.51
		SEP 06, 2002			

SAN JUAN COUNTY

375243109191301. LOCAL NUMBER, (D-33-24)30dab-1.

LOCATION.--Lat 37°52'43", long 109°19'13", Hydrologic Unit 14080203.

Owner: A. E. C.

AQUIFER.--Sandstone.

WELL CHARACTERISTICS.--Drilled unused well, diameter 10 in., depth 319 ft.

DATUM.--Land-surface datum is 6,916 ft above NGVD of 1929. Measuring Point: Top of casing, 0.60 ft above land-surface datum.

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

PERIOD OF RECORD.--July 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 159.69 ft below land-surface datum, Jan 17, 1996; lowest, 202.89 ft below land-surface datum, Jul 25, 1958.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	160.54	160.48	160.66	161.02	162.16	162.63	163.48
10	---	---	---	---	---	160.52	160.51	160.39	160.81	162.57	162.77	163.51
15	---	---	---	---	---	160.31	160.15	160.69	161.04	162.74	162.91	163.62
20	---	---	---	---	---	160.66	160.27	160.64	161.26	162.96	163.33	163.47
25	---	---	---	---	---	160.33	160.45	160.73	161.59	162.88	163.30	163.61
EOM	---	---	---	---	---	160.52	160.42	160.75	162.49	162.64	163.62	163.55

e Estimated

375050109034801. LOCAL NUMBER, (D-34-26)4dad-1.

LOCATION.--Lat 37°50'50", long 109°03'48", Hydrologic Unit 14080203.

Owner: State of Utah.

AQUIFER.--Sandstone.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 100 ft.

DATUM.--Elevation of land-surface datum is 6,725 ft above NGVD of 1929. Measuring point: Top of 3 in. pipe housing, 4.83 ft above land-surface datum.

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

PERIOD OF RECORD.--November 1946-51, 1953-92, 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 25.84 ft below land-surface datum, Apr 13, 1983; lowest, 45.41 ft below land-surface datum, Oct 30, 1953.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	36.62	37.21	e36.80	36.92	36.37	35.98	35.46	35.54	35.50	37.53	37.71	38.10
10	36.61	37.16	36.71	36.77	36.35	35.89	35.47	35.34	35.44	37.64	37.60	38.10
15	36.88	37.13	36.66	36.74	36.26	35.61	35.37	35.46	37.13	37.81	37.56	37.95
20	37.03	37.23	36.67	36.70	36.12	35.58	35.30	35.48	37.65	37.99	38.02	37.90
25	37.21	37.00	36.73	36.66	36.19	35.47	35.40	35.46	37.47	38.00	37.68	37.91
EOM	37.22	36.90	36.77	36.53	35.94	35.47	35.16	35.51	37.83	37.90	37.87	37.94

e Estimated

373830109283201. LOCAL NUMBER, (D-36-22)22daa-1.

LOCATION.--Lat 37°38'30", long 109°28'32", Hydrologic Unit 14080201.

Owner: Joseph L. Nielson.

AQUIFER.--Dakota Sandstone.

WELL CHARACTERISTICS.--Drilled stock artesian well, diameter 7 in., depth 140 ft.

DATUM.--Elevation of land-surface datum is 6,200 ft above NGVD of 1929. Measuring point: Top of 7 in. casing, 1.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--October 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 35.51 ft below land-surface datum, Sep 20, 1988; lowest, 57.23 ft below land-surface datum, Oct 20, 1960.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	52.14	52.60	52.51	53.01	53.24	53.32	53.47	53.70	53.96	54.12	54.41	54.59
10	52.27	52.69	52.26	52.93	53.57	53.27	53.57	53.40	53.73	54.38	54.40	54.68
15	52.34	52.52	52.27	52.76	53.26	53.04	53.11	53.59	53.96	54.19	54.32	54.77
20	52.32	52.69	52.72	52.74	53.21	53.56	53.32	53.66	53.96	54.26	54.36	54.59
25	52.53	52.12	52.98	53.20	53.20	53.16	53.55	53.85	54.14	54.35	54.58	54.62
EOM	52.34	52.38	52.80	52.83	52.75	53.48	53.39	53.85	54.16	54.32	54.61	54.60

TOOELE COUNTY

404242112131101. LOCAL NUMBER, (C-1-3)30aad-1.

LOCATION.--Lat 40°42'42", long 112°13'11", Hydrologic Unit 16020304.

Owner: Kennecott Utah Copper.

AQUIFER.--Consolidated bedrock.

DATUM.--Elevation of land-surface datum is 4,782 ft above NGVD of 1929.

REMARKS.--Records good; reported by Kennecott Utah Copper.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 240.20 ft below land-surface datum, Jul 27, 2000; lowest, 256.83 ft below land-surface datum, Mar 20, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 20	256.83	MAY 15	254.92	JUL 19	253.67
WATER YEAR 2002		HIGHEST	253.67	JUL 19, 2002	LOWEST 256.83 MAR 20, 2002

404242112131102. LOCAL NUMBER, (C-1-3)30aad-2.

LOCATION.--Lat 40°42'42", long 112°13'11", Hydrologic Unit 16020304.

Owner: Kennecott Utah Copper.

AQUIFER.--Consolidated bedrock.

DATUM.--Elevation of land-surface datum is 4,782 ft above NGVD of 1929.

REMARKS.--Records good; reported by Kennecott Utah Copper.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 526.49 ft below land-surface datum, May 15, 2002; lowest 533.52 ft below land-surface datum, Mar 20, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 20	533.52	MAY 15	526.49	JUL 19	528.45
WATER YEAR 2002		HIGHEST	526.49	MAY 15, 2002	LOWEST 533.52 MAR 20, 2002

404242112131103. LOCAL NUMBER, (C-1-3)30aad-3.

LOCATION.--Lat 40°42'42", long 112°13'11", Hydrologic Unit 16020304.

Owner: Kennecott Utah Copper.

AQUIFER.--Consolidated bedrock.

DATUM.--Elevation of land-surface datum is 4,782 ft above NGVD of 1929.

REMARKS.--Records good; reported by Kennecott Utah Copper.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 528.14 ft below land-surface datum, Jul 3, 2001; lowest 534.61 ft below land-surface datum, Mar 20, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 20	534.61	MAY 15	528.82	JUL 19	529.55
WATER YEAR 2002		HIGHEST	528.82	MAY 15, 2002	LOWEST 534.61 MAR 20, 2002

404105112151501. LOCAL NUMBER, (C-1-4)36ccb-1.

LOCATION.--Lat 40°41'05", long 112°15'15", Hydrologic Unit 16020304.

Owner: Saddleback Partners L.C.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 2 in.

DATUM.--Elevation of land-surface datum is 4,259 ft above NGVD of 1929. Measuring point: Top of casing, 1.37 ft above land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.69 ft below land-surface datum, Jun 28, 1997; lowest, 7.86 ft below land-surface datum, Sep 1, 4, 5, 14-16, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.23	7.19	7.24	7.30	7.41	7.49	7.46	7.39	7.21	7.50	7.72	7.81
10	7.23	7.23	7.20	7.31	7.43	7.49	7.42	7.34	7.26	7.58	7.77	7.81
15	7.23	7.25	7.22	7.28	7.44	7.51	7.45	7.29	7.27	7.61	7.79	7.84
20	7.20	7.24	7.22	7.31	7.44	7.44	7.45	7.26	7.33	7.63	7.79	7.79
25	7.24	7.19	7.28	7.33	7.48	7.46	7.45	7.22	7.39	7.66	7.81	7.79
EOM	7.18	7.22	7.26	7.39	7.53	7.44	7.39	7.24	7.43	7.71	7.84	7.82

TOOELE COUNTY--Continued

404023112154001. LOCAL NUMBER, (C-2-4)2ddb-1.

LOCATION.--Lat 40°40'23", long 112°15'40", Hydrologic Unit 16020304.

Owner: Mike Spivey.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 161 ft.

DATUM.--Elevation of land-surface datum is 4,275 ft above NGVD of 1929. Measuring point: Top of casing, 2.00 ft above land-surface datum.

REMARKS.--Records good except for estimated days, which are poor.

PERIOD OF RECORD.--April 1998 to September 2002 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 31.42 ft below land-surface datum, Nov 8, 9, 1998; lowest, 40.17 ft below land-surface datum, Sep 27-30.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	39.26	39.28	39.30	e39.33	e39.49	e39.66	e39.73	e39.39	e39.44	e39.83	40.11	40.14
10	39.27	39.29	39.30	e39.33	e39.52	e39.69	39.69	e39.37	e39.48	e39.92	40.12	40.15
15	39.27	39.29	39.31	e39.35	e39.54	e39.72	39.63	e39.36	e39.52	e40.02	40.12	40.15
20	39.27	39.29	39.31	e39.40	e39.57	e39.74	39.55	e39.36	e39.57	40.07	40.12	40.16
25	39.28	39.29	39.31	e39.42	e39.61	e39.75	39.49	e39.38	e39.64	40.11	40.12	40.16
EOM	39.28	39.30	39.32	e39.46	e39.64	e39.74	e39.42	e39.39	e39.73	40.11	40.12	40.17

e Estimated

403547112155101. LOCAL NUMBER, (C-2-4)35dcc-1.

LOCATION.--Lat 40°35'47", long 112°15'51", Hydrologic Unit 16020304.

Owner: Rusty Price.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Multiple completion; diameter 2 in., depth 210 ft.

DATUM.--Elevation of land-surface datum is 4,575 ft above NGVD of 1929.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 176.34 ft below land-surface, Mar 14, 2000; lowest, 188.49 ft below land-surface datum, Jul 22, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	185.11	JAN 31	183.49	MAR 28	183.05	JUL 22	188.49
WATER YEAR 2002		HIGHEST	183.05	MAR 28, 2002		LOWEST	188.49
						JUL 22, 2002	

403547112155102. LOCAL NUMBER, (C-2-4)35dcc-2.

LOCATION.--Lat 40°35'47", long 112°15'51", Hydrologic Unit 16020304.

Owner: Rusty Price.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Multiple completion; diameter 2 in., depth 260 ft.

DATUM.--Elevation of land-surface datum is 4,575 ft above NGVD of 1929.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 176.27 ft below land-surface datum, Mar 14, 2000; lowest 188.48 ft below land-surface datum, Jul 22, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	185.06	JAN 31	183.42	MAR 28	182.99	JUL 22	188.48
WATER YEAR 2002		HIGHEST	182.99	MAR 28, 2002		LOWEST	188.48
						JUL 22, 2002	

403547112155103. LOCAL NUMBER, (C-2-4)35dcc-3.

LOCATION.--Lat 40°35'47", long 112°15'51", Hydrologic Unit 16020304.

Owner: Rusty Price.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Multiple completion; diameter 2 in., depth 350 ft.

DATUM.--Elevation of land-surface datum is 4,575 ft above NGVD of 1929.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 175.50 ft below land-surface datum, Mar 14, 2000; lowest, 188.53 ft below land-surface datum, Jul 22, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	184.97	JAN 31	183.36	MAR 28	182.95	JUL 22	188.53
WATER YEAR 2002		HIGHEST	182.95	MAR 28, 2002		LOWEST	188.53
						JUL 22, 2002	

TOOELE COUNTY--Continued

403237112131401. LOCAL NUMBER, (C-3-3)19dab-1.

LOCATION.--Lat 40°32'37", long 112°13'14", Hydrologic Unit 16020304.

Owner: ARCO.

AQUIFER.--Consolidated bedrock.

WELL CHARACTERISTICS.--Diameter 6 in.

DATUM.--Elevation of land-surface datum is 5,855 ft above NGVD of 1929.

REMARKS.--Records good.

PERIOD OF RECORD.--Nov 1988; May 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 202.38 ft below land-surface datum, Nov 1, 1988; lowest 474.48 ft below land-surface datum, Jul 27, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	465.53	JAN 31	466.15	MAR 28	469.65	AUG 21	465.41
WATER YEAR 2002		HIGHEST	465.41	AUG 21, 2002	LOWEST	469.65	MAR 28, 2002

403002112123201. LOCAL NUMBER, (C-3-3)20bab-1.

LOCATION.--Lat 40°30'02", long 112°12'32", Hydrologic Unit 16020304.

Owner: Kennecott Utah Copper.

AQUIFER.--Consolidated bedrock.

WELL CHARACTERISTICS.--Diameter 8 in., depth 200 ft.

DATUM.--Elevation of land-surface datum is 6,000 ft above NGVD of 1929.

REMARKS.--Records good.

PERIOD OF RECORD.--1990; August 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 101.11 ft below land-surface datum, Aug 28, 2000; lowest 103.72 ft below land-surface datum, Aug 21, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	102.84	JAN 03	103.38	MAR 28	103.69	APR 04	103.69	AUG 21	103.72	SEP 29	103.30
WATER YEAR 2002		HIGHEST	102.84	OCT 26, 2001	LOWEST	103.72	AUG 21, 2002				

403400112144001. LOCAL NUMBER, (C-3-4)13abb-2.

LOCATION.--Lat 40°34'00", long 112°14'40", Hydrologic Unit 16020304.

Owner: ARCO.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 8 in.

DATUM.--Elevation of land-surface datum is 4,995 ft above NGVD of 1929.

REMARKS.--Records good.

PERIOD OF RECORD.--April 1977 to May 1978; July 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 579.41 ft below land-surface datum, May 23, 2000; lowest, 593.84 ft below land-surface datum, Mar 28, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	591.45	MAR 28	593.84
WATER YEAR 2002		HIGHEST	591.45
		OCT 26, 2001	LOWEST
		593.84	MAR 28, 2002

403339112152501. LOCAL NUMBER, (C-3-4)14abd-1.

LOCATION.--Lat 40°33'39", long 112°15'25", Hydrologic Unit 16020304.

Owner: Ralph Bailey.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 8 in., depth 650 ft, perforated 580-652 ft.

DATUM.--Elevation of land-surface datum is 4,950 ft above NGVD of 1929.

REMARKS.--Records good.

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

ESTREMES FOR PERIOD OF RECORD.--Highest water level, 502.88 ft below land-surface datum, Apr 3, 1985; lowest 570.00 ft below land-surface datum, Oct 18, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 06	543.79	MAR 28	538.62
WATER YEAR 2002		HIGHEST	538.62
		MAR 28, 2002	LOWEST
		543.79	DEC 06, 2002

TOOELE COUNTY--Continued

401312112442301. LOCAL NUMBER, (C-7-8)10cbd-1.

LOCATION.--Lat 40°13'12", long 112°44'23", Hydrologic Unit 16020305.

Owner: Dugway Proving Ground.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 175 ft, cased to 175 ft, perforated 115-175 ft.

DATUM.--Elevation of land-surface datum is 4,833.44 ft above NGVD of 1929. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--November 1946 to March 1947, January 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 73.32 ft below land-surface datum, Jan 26, 1951; lowest, 93.67 ft below land-surface datum, Oct 15, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	77.81	77.27	76.57	76.18	75.65	75.23	74.90	74.81	75.59	76.50	77.27	77.74
10	77.87	77.15	76.40	76.03	75.69	75.19	74.97	74.81	75.74	76.66	77.43	77.77
15	77.77	77.03	76.40	75.87	75.55	75.12	74.69	75.01	75.81	76.85	77.44	77.78
20	77.64	76.88	76.27	75.79	75.49	75.15	74.88	75.02	75.97	76.98	77.51	77.78
25	77.62	76.65	76.32	75.75	75.39	75.11	74.81	75.24	76.23	77.13	77.63	77.74
EOM	77.34	76.64	76.17	75.80	75.19	74.98	74.74	75.39	76.35	77.18	77.69	77.68

UINTAH COUNTY

403158109372201. LOCAL NUMBER, (D-3-20)25abc-2.

LOCATION.--Lat 40°31'58", long 109°37'22", Hydrologic Unit 14060002.

Owner: H. T. Peltier.

AQUIFER.--Glacial outwash.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in., depth 43 ft, cased to 42 ft.

DATUM.--Land-surface datum is 5,992 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good except for estimated days, which are poor.

PERIOD OF RECORD.--May 1965 to August 1966, March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.97 ft below land-surface datum, Jul 5, 1966; lowest, 8.88 ft below land-surface datum, Sep 7, 1989.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.67	6.41	6.10	5.93	5.94	5.95	6.00	6.45	e7.09	e8.16	8.60	8.88
10	6.47	6.39	6.06	5.92	5.92	5.85	6.10	6.57	e7.27	e8.34	8.63	8.62
15	6.46	6.36	6.03	5.94	5.92	5.78	6.15	6.64	e7.45	8.47	8.72	8.38
20	6.46	6.33	5.99	5.96	5.84	5.68	6.17	6.75	e7.63	8.54	8.81	8.39
25	6.46	6.20	5.99	5.95	5.75	5.74	6.28	6.79	e7.80	8.58	8.83	8.43
EOM	6.38	6.18	5.94	5.95	5.84	5.90	6.34	e6.91	e7.98	8.51	8.80	8.42

e Estimated

UTAH COUNTY

401818112014501. LOCAL NUMBER, (C-6-2)14aba-1.

LOCATION.--Lat 40°18'18", long 112°01'45", Hydrologic Unit 16020201.

Owner: Coop Security Corp.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 16 in., depth 1,258 ft, cased to 1,254 ft.

DATUM.--Land-surface datum is 4,865.70 ft above sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Records good except for estimated days, which are poor.

PERIOD OF RECORD.--December 1954 to April 1955, March 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 106.67 ft below land-surface datum, Apr 15, 2002; lowest, 141.41 ft below land-surface datum, Aug 15, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	107.33	107.30	107.13	107.13	107.03	106.93	106.80	106.83	106.93	106.96	107.00	107.05
10	107.35	107.31	107.09	107.09	107.04	106.88	106.80	106.84	106.90	107.02	107.05	107.03
15	107.35	107.25	107.05	107.00	106.95	106.82	106.67	106.87	106.95	106.99	107.02	107.03
20	107.31	107.26	107.10	106.99	106.86	106.88	106.72	106.82	106.94	107.00	106.97	107.00
25	107.33	107.07	107.20	107.02	106.88	106.80	106.79	106.91	106.97	107.02	107.05	107.01
EOM	107.28	107.12	107.09	106.96	106.84	106.84	106.74	106.90	106.96	107.01	107.04	106.97

GROUND-WATER LEVELS

UTAH COUNTY--Continued

402333111513401. LOCAL NUMBER, (D-5-1)8dcc-1.

LOCATION.--Lat 40°23'33", long 111°51'34", Hydrologic Unit 16020201.

Owner: Lehi Irrigation Co.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 14 in., depth 240 ft, cased to 240 ft, perforated at 85, 105, 165, and 200 ft.

DATUM.--Elevation of land-surface datum is 4,555.03 ft above NGVD of 1929. Measuring point: Top of casing, 3.40 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping. Records good except for estimated days, which are poor.

PERIOD OF RECORD.--September 1935 to December 1936, April 1947, March 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.07 ft above land-surface datum, Apr 10, 1983, 1984; lowest, 41.28 ft below land-surface datum, Aug 26, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.88	26.62	24.65	23.83	23.42	23.10	23.53	25.93	29.20	36.92	37.38	37.25
10	29.00	26.37	24.30	23.73	23.31	22.90	25.14	26.95	29.08	36.38	e38.40	34.21
15	28.20	25.81	24.02	23.58	23.21	22.78	26.39	28.21	33.46	36.20	37.91	31.87
20	28.03	25.57	24.25	23.37	23.01	23.07	25.09	28.53	e38.20	36.81	e39.30	30.89
25	27.85	24.95	24.12	23.47	23.22	22.83	25.36	27.38	e39.70	e38.30	40.64	31.18
EOM	27.32	24.71	23.79	23.58	23.15	22.94	24.79	29.78	e38.84	37.07	38.69	30.99

e Estimated

WASATCH COUNTY

403146111272701. LOCAL NUMBER, (D-3-4)26dba-1.

LOCATION.--Lat 40°31'46", long 111°27'27", Hydrologic Unit 16020203.

Owner: Leroy Kohler.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 48 in., depth 19 ft.

DATUM.--Elevation of land-surface datum is 5,580 ft above NGVD of 1929. Measuring point: Top of wood covering well, 11.60 ft below land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1966, July 1988 to August 1989, April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.22 ft below land-surface datum, Jul 06, 1989; lowest, 17.16 ft below land-surface datum Feb 07, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	12.86	DEC 19	15.19	FEB 26	16.29	APR 22	13.93	JUN 17	13.24	AUG 28	12.62
NOV 20	13.90	JAN 25	15.67	MAR 19	16.05	MAY 20	13.41	JUL 24	13.34	SEP 24	13.07
WATER YEAR 2002		HIGHEST	12.62	AUG 28, 2002		LOWEST	16.29	FEB 26, 2002			

403403111253501. LOCAL NUMBER, (D-3-5)7cdb-1.

LOCATION.--Lat 40°34'03", long 111°25'35", Hydrologic Unit 16020203.

Owner: Glade Givens.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 4 in., depth 88 ft.

DATUM.--Elevation of land-surface datum is 5,759 ft above NGVD of 1929. Measuring point: So. edge of opening above well at east corner, 3.65 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--September 1966 to September 1968, July 1988 to July 1989, April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.05 below land-surface datum, Jun 28, 1993; lowest, 23.89 ft below land-surface datum, Mar 20, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	5.73	DEC 19	4.80	FEB 26	4.64	APR 22	4.33	JUN 17	5.16	AUG 26	6.03
NOV 20	5.41	JAN 25	5.05	MAR 19	3.66	MAY 20	4.31	JUL 24	5.68	SEP 24	5.64
WATER YEAR 2002		HIGHEST	3.66	MAR 19, 2002		LOWEST	6.03	AUG 26, 2002			

403325111254601. LOCAL NUMBER, (D-3-5)18cba-1.

LOCATION.--Lat 40°33'25", long 111°25'46", Hydrologic Unit 16020203.

Owner: North Orem LDS Stake.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--

DATUM.--Elevation of land-surface datum is 5,700 ft above NGVD of 1929. Measuring point: Top of plug hole in cap, 2.50 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--October 1988 to August 1989, April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.33 ft below land-surface datum, Jun 22, 1998; lowest, 28.24 ft below land-surface datum, Aug 02, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	14.97	DEC 19	17.52	FEB 26	19.22	APR 22	18.09	JUN 17	12.46	AUG 26	12.17
NOV 20	15.83	JAN 25	17.81	MAR 19	17.91	MAY 20	13.25	JUL 24	11.82	SEP 24	14.67
WATER YEAR 2002		HIGHEST	11.82	JUL 24, 2002		LOWEST	19.22	FEB 26, 2002			

WASATCH COUNTY--Continued

403305111251901. LOCAL NUMBER, (D-3-5)18dcc-2.

LOCATION.--Lat 40°33'05", long 111°25'19", Hydrologic Unit 16020203.

Owner: Hugh Smith.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 8 in., depth 243 ft.

DATUM.--Elevation of land-surface datum is 5,695 ft above NGVD of 1929. Measuring point: Top of plug hole in cap, 2.95 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--August 1988 to August 1989, April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 86.46 ft below land-surface datum, Jul 25, 2001; lowest, 100.39 ft below land-surface datum, Apr 25, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	89.27	DEC 19	98.72	MAR 19	98.43	JUN 17	88.74	SEP 24	93.15
29	92.02	JAN 25	98.37	APR 22	96.19	JUL 24	89.71		
NOV 20	94.24	FEB 26	98.74	MAY 20	90.25	AUG 26	89.21		
WATER YEAR 2002		HIGHEST	88.74	JUN 17, 2002	LOWEST	98.74	FEB 26, 2002		

403243111252701. LOCAL NUMBER, (D-3-5)19bdd-2.

LOCATION.--Lat 40°32'43", long 111°25'27", Hydrologic Unit 16020203.

Owner: Melvin C. Cummings.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 5 in., depth 120 ft.

DATUM.--Elevation of land-surface datum is 5,654 ft above NGVD of 1929. Measuring point: Top of casing, 1.50 ft above land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.66 ft below land-surface datum, May 10, 1994; lowest, 25.64 ft below land-surface datum, Feb 23, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	20.72	DEC 19	22.03	FEB 26	25.30	APR 22	24.08	JUN 17	17.88	SEP 24	19.86
NOV 20	20.40	JAN 25	23.84	MAR 19	24.62	MAY 20	18.00	AUG 26	19.24		
WATER YEAR 2002		HIGHEST	17.88	JUN 17, 2002	LOWEST	25.30	FEB 26, 2002				

403127111240301. LOCAL NUMBER, (D-3-5)29cac-1.

LOCATION.--Lat 40°31'27", long 111°24'03", Hydrologic Unit 16020203.

Owner: Leslie North.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 4 ft, depth 15 ft, rock lined.

DATUM.--Elevation of land-surface datum is 5,608 ft above NGVD of 1929. Measuring point: Top of concrete platform, 1.0 ft above land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.18 ft below land-surface datum, Sep 13, 1974; lowest, 11.30 ft below land-surface datum, Apr 22, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	7.94	DEC 19	9.68	FEB 26	10.77	APR 22	11.30	JUN 17	6.04	AUG 21	4.84
NOV 20	8.91	JAN 25	10.67	MAR 19	10.94	MAY 20	9.24	JUL 24	4.18	SEP 30	5.75
WATER YEAR 2002		HIGHEST	4.18	JUL 24, 2002	LOWEST	11.30	APR 22, 2002				

403149111255601. LOCAL NUMBER, (D-3-5)30bcc-1.

LOCATION.--Lat 40°31'49", long 111°25'56", Hydrologic Unit 16020203.

Owner: U.S. Geological Survey.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 2 in., depth 6.5 ft.

DATUM.--Elevation of land-surface datum is 5,594 ft above NGVD of 1929. Measuring point: Top of casing, 2.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--December 1988 to August 1989, April 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.13 ft below land-surface datum, Jun 26, 2000; lowest, 3.10 ft below land-surface datum, Oct 24, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	3.07	DEC 19	2.09	FEB 26	1.74	APR 22	2.70	JUN 17	1.58	AUG 26	2.98
NOV 20	2.95	JAN 25	2.70	MAR 19	1.14	MAY 20	.34	JUL 24	.34	SEP 24	2.74
WATER YEAR 2002		HIGHEST	.34	MAY 20, 2002	JUL 24, 2002	LOWEST	3.07	OCT 29, 2001			

WASATCH COUNTY--Continued

403004111280301. LOCAL NUMBER, (D-4-4)2bcd-1.

LOCATION.--Lat 40°30'04", long 111°28'03", Hydrologic Unit 16020203.

Owner: Clark Partridge.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 105 ft.

DATUM.--Elevation of land-surface datum is 5,500 ft above NGVD of 1929. Measuring point: Top of hole in casing, 5.02 ft below land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.91 ft below land-surface datum, Jun 05, 1995; lowest, 52.79 ft below land-surface datum, Dec 28, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	49.90	DEC 19	50.81	FEB 26	51.38	APR 22	50.77	JUN 17	49.48	AUG 26	51.06
NOV 20	49.16	JAN 25	51.28	MAR 19	51.18	MAY 20	49.28	JUL 24	50.32	SEP 24	51.28
WATER YEAR 2002		HIGHEST	49.16	NOV 20, 2001	LOWEST	51.38	FEB 26, 2002				

402937111283501. LOCAL NUMBER, (D-4-4)3dcd-1.

LOCATION.--Lat 40°29'37", long 111°28'35", Hydrologic Unit 16020203.

Owner: Deer Creek Meadows, LLC

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--

DATUM.--Elevation of land-surface datum is 5,475 ft above NGVD of 1929. Measuring point: Top of casing, 0.41 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1988 to August 1989, May 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.12 ft below land-surface datum, Jul, 05 1995; lowest, 14.60 ft below land-surface datum, Jan 24, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	12.06	DEC 19	13.55	FEB 26	14.57	APR 22	14.20	JUN 17	12.43	AUG 26	14.37
NOV 20	13.06	JAN 25	14.28	MAR 19	14.29	MAY 20	13.62	JUL 24	14.16	SEP 24	12.80
WATER YEAR 2002		HIGHEST	12.06	OCT 29, 2001	LOWEST	14.57	FEB 26, 2002				

402902111282001. LOCAL NUMBER (D-4-4)10daa-1.

LOCATION.--Lat 40°29'02", long 111°28'20", Hydrologic Unit 16020203.

Owner: U.S. Geological Survey.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 2 in., depth 65 ft.

DATUM.--Elevation of land-surface datum is 5,430 ft above NGVD of 1929. Measuring point: Top of casing, 2.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--November 1988 to August 1989, May 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.81 ft below land-surface datum, Jun 28, 1993; lowest, 4.25 ft below land-surface datum, Aug 26, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	3.71	DEC 19	3.53	FEB 26	3.39	APR 22	3.62	JUN 17	3.70	AUG 26	4.25
NOV 20	3.67	JAN 25	3.75	MAR 19	3.48	MAY 20	3.80	JUL 24	4.16	SEP 24	3.75
WATER YEAR 2002		HIGHEST	3.39	FEB 26, 2002	LOWEST	4.25	AUG 26, 2002				

402842111263101. LOCAL NUMBER, (D-4-4)12dcc-1.

LOCATION.--Lat 40°28'42", long 111°26'31", Hydrologic Unit 16020203.

Owner: Heber Valley Special Services Dist.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--

DATUM.--Elevation of land-surface datum is 5,545 ft above NGVD of 1929. Measuring point: Top of concrete walkway at land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--September 1949 to October 1950, July 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.00 ft below land-surface datum, Jul 03, 1950; lowest, 75.51 ft below land-surface datum, Feb 26, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	68.52	DEC 19	71.38	MAR 19	74.06	JUN 17	71.31	SEP 24	70.44		
29	72.06	JAN 25	72.92	APR 22	73.48	JUL 24	73.26				
NOV 20	69.60	FEB 26	75.51	MAY 20	72.44	AUG 28	69.25				
WATER YEAR 2002		HIGHEST	68.52	OCT 01, 2001	LOWEST	75.51	FEB 26, 2002				

WASATCH COUNTY--Continued

40274211281501. LOCAL NUMBER, (D-4-4)23bbb-2.

LOCATION.--Lat 40°27'42", long 111°28'15", Hydrologic Unit 16020203.

Owner: Shirley Lewis.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 36 in., depth 25 ft.

DATUM.--Elevation of land-surface datum is 5,426 ft above NGVD of 1929. Measuring point: Top of timber over well, .82 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1988 to August 1989, May 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.68 ft below land-surface datum, Jun 28, 1993; lowest, 24.68 ft below land-surface datum, Sep 24, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	D	DEC 19	D	MAR 19	D	JUN 17	D	SEP 24	24.05
NOV 01	D	JAN 25	D	APR 22	D	JUL 24	D		
20	D	FEB 26	D	MAY 20	D	AUG 26	23.26		

WATER YEAR 2002	HIGHEST	23.26	AUG 26, 2002	LOWEST	24.05	SEP 24, 2002

D Well dry at 26.5 ft.

402937111214901. LOCAL NUMBER, (D-4-5)3dcc-1.

LOCATION.--Lat 40°29'37", long 111°21'49", Hydrologic Unit 16020203.

Owner: Brad Baird.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 75 ft.

DATUM.--Elevation of land-surface datum is 5,880 ft above NGVD of 1929. Measuring point: Top of casing, 1.60 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1988 to August 1989, June 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.88 ft below land-surface datum, Jun 26, 1997; lowest, 43.31 ft below land-surface datum, Apr 22, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	31.00	DEC 27	38.19	FEB 27	42.19	APR 22	43.31	JUN 18	19.74	AUG 21	23.57
NOV 20	34.06	JAN 31	40.55	MAR 19	41.02	MAY 20	32.36	JUL 25	20.00	SEP 30	27.97

WATER YEAR 2002	HIGHEST	19.74	JUN 18, 2002	LOWEST	43.31	APR 22, 2002

40294611233901. LOCAL NUMBER, (D-4-5)4ccb-1.

LOCATION.--Lat 40°29'46", long 111°23'39", Hydrologic Unit 16020203.

Owner: Dan Giles.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 217 ft.

DATUM.--Elevation of land-surface datum is 5,700 ft above NGVD of 1929. Measuring point: Top of plug hole in cap 1.75 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--February 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 98.45 ft below land-surface datum, Aug 25, 1998; lowest, 158.39 ft below land-surface datum, Jan 31, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	151.27	DEC 27	155.96	FEB 27	157.33	APR 22	155.56	JUN 18	151.20	AUG 21	151.27
NOV 20	153.61	JAN 31	158.39	MAR 19	158.20	MAY 20	154.16	JUL 25	146.73	SEP 30	P

WATER YEAR 2002	HIGHEST	151.20	JUN 18, 2002	LOWEST	158.39	JAN 31, 2002

P Pumping

WASATCH COUNTY--Continued

402842111223601. LOCAL NUMBER, (D-4-5)4ddd-1.

LOCATION.--Lat 40°28'42", long 111°22'36", Hydrologic Unit 16020203.

Owner: Tressa McDonald Mair.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--

DATUM.--Elevation of land-surface datum is 5,798 ft above NGVD of 1929. Measuring point: Top of door covering well, 0.1 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1939, September 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.88 ft below land-surface datum, Jun 22, 1998; lowest, 49.83 ft below land-surface datum, Jan 31, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	P	DEC 27	46.86	FEB 27	39.71	APR 22	42.20	JUN 18	29.47	AUG 26	26.28
NOV 20	P	JAN 31	49.83	MAR 19	23.27	MAY 20	38.91	JUL 25	28.09	SEP 30	P
WATER YEAR 2002		HIGHEST	23.27	MAR 19, 2002	LOWEST	49.83	JAN 31, 2002				

P Pumping

403022111240801. LOCAL NUMBER, (D-4-5)5abb- 1.

LOCATION.--Lat 40°30'22", long 111°24'08", Hydrologic Unit 16020203.

Owner: Heber City Corporation.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 12 in., depth 375 ft.

DATUM.--Elevation of land-surface datum is 5,640 ft above NGVD of 1929. Measuring point: Top of hole in cap 1.85 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--January 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.99 ft below land-surface datum, Sep 21, 1998; lowest 50.78 ft below land-surface datum, Aug 21, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	31.42	DEC 19	29.89	FEB 26	30.41	APR 22	30.49	JUN 17	48.12	AUG 21	50.78
NOV 20	30.21	JAN 25	29.99	MAR 19	30.96	MAY 20	47.56	JUL 24	49.02	SEP 30	32.22
WATER YEAR 2002		HIGHEST	29.89	DEC 19, 2001	LOWEST	50.78	AUG 21, 2002				

403003111255801. LOCAL NUMBER, (D-4-5)6bcc-2.

LOCATION.--Lat 40°30'03", long 111°25'58", Hydrologic Unit 16020203.

Owner: Erma Moulton.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--

DATUM.--Elevation of land-surface datum is 5,530 ft above NGVD of 1929. Measuring point: Top of casing, 1.50 ft above land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.00 ft below land-surface datum, Jul 19, 1996; lowest, 41.42 ft below land-surface datum, Apr 22, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	37.36	DEC 19	38.92	FEB 26	P	APR 22	41.42	JUN 17	38.85	AUG 28	36.84
NOV 20	37.01	JAN 25	40.45	APR 02	41.19	MAY 20	40.66	JUL 24	37.41	SEP 24	P
WATER YEAR 2002		HIGHEST	36.84	AUG 28, 2002	LOWEST	41.42	APR 22, 2002				

P Pumping

WASATCH COUNTY--Continued

402856111252701. LOCAL NUMBER, (D-4-5)7cad-1.

LOCATION.--Lat 40°28'56", long 111°25'27", Hydrologic Unit 16020203.

Owner: Heber City Corp. (Airport)

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 155 ft.

DATUM.--Elevation of land-surface datum is 5,615 ft above NGVD of 1929. Measuring point: Top of well cover, 8.0 ft below land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 60.23 ft below land-surface datum, Aug 10, 1995; lowest, 127.26 ft below land-surface datum, Feb 26, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	114.76	DEC 19	119.91	FEB 26	127.26	APR 22	0	JUN 17	121.66	AUG 26	118.53
NOV 20	116.84	JAN 25	122.55	APR 02	0	MAY 20	0	JUL 24	119.57	SEP 24	117.42
WATER YEAR 2002		HIGHEST	114.76	OCT 29, 2001	LOWEST	127.26	FEB 26, 2002				

0 Obstruction

402857111245601. LOCAL NUMBER, (D-4-5)7dad-1.

LOCATION.--Lat 40°28'57", long 111°24'56", Hydrologic Unit 16020203.

Owner: Wayne Fox.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 160 ft.

DATUM.--Elevation of land-surface datum is 5,660 ft above NGVD of 1929. Measuring point: Top of casing, 1.95 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--January 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 84.59 ft below land-surface datum, Aug 24, 1998; lowest, 154.23 ft below land-surface datum, Apr 22, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	143.43	DEC 19	148.84	FEB 26	152.83	APR 22	154.23	JUN 17	151.14	AUG 26	146.72
NOV 20	145.86	JAN 25	151.19	APR 02	153.93	MAY 20	152.80	JUL 24	148.36	SEP 24	146.14
WATER YEAR 2002		HIGHEST	143.43	OCT 29, 2001	LOWEST	154.23	APR 22, 2002				

402904111225801. LOCAL NUMBER, (D-4-5)9dbb-1.

LOCATION.--Lat 40°29'04", long 111°22'58", Hydrologic Unit 16020203.

Owner: Ernest Blodgett.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 8 in., depth 320 ft.

DATUM.--Elevation of land-surface datum is 5,770 ft above NGVD of 1929. Measuring point: Top of casing, 1.4 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--February 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 148.50 ft below land-surface datum, Jul 29, 1997; lowest, 211.09 ft below land-surface datum, May 18, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	168.97	NOV 20	169.40	JAN 31	166.26	APR 02	166.91	MAY 20	171.41	JUL 25	165.51
29	177.00	DEC 27	169.53	FEB 27	169.84	22	166.77	JUN 18	181.36	SEP 30	168.92
WATER YEAR 2002		HIGHEST	165.51	JUL 25, 2002	LOWEST	181.36	JUN 18, 2002				

402840111213801. LOCAL NUMBER, (D-4-5)15aab-1.

LOCATION.--Lat 40°28'40", long 111°21'38", Hydrologic Unit 16020203.

Owner: Doyle Sweat.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 150 ft.

DATUM.--Elevation of land-surface datum is 5,900 ft above NGVD of 1929. Measuring point: Lip of plug hole, 1.06 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1988 to May 1990, May 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.00 ft below land-surface datum, May 28, 1990; lowest, 22.62 ft below land-surface datum, Aug 02, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	20.53	DEC 27	16.19	MAR 19	18.13	JUN 18	20.31	SEP 30	18.63
29	17.54	JAN 31	17.47	APR 22	17.84	JUL 25	20.15		
NOV 20	16.89	FEB 27	17.75	MAY 20	20.84	AUG 26	21.11		
WATER YEAR 2002		HIGHEST	16.19	DEC 27, 2001	LOWEST	21.11	AUG 26, 2002		

WASATCH COUNTY--Continued

402839111221101. LOCAL NUMBER, (D-4-5)15bab-1.

LOCATION.--Lat 40°28'39", long 111°22'11", Hydrologic Unit 16020203.

Owner: Theon Sweat.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 165 ft.

DATUM.--Elevation of land-surface datum is 5,850 ft above NGVD of 1929. Measuring point: Lip of access hole, 5.90 ft below land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1988 to August 1989, May 1993 to current year

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 120.72 ft below land-surface datum, Jun 19, 1996; lowest, 137.37 ft below land-surface datum, Apr 21, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	135.43	DEC 27	123.86	APR 02	132.17	JUN 18	132.98	SEP 30	130.96
29	133.14	JAN 31	129.28	22	134.40	JUL 25	132.76		
NOV 20	126.83	FEB 27	132.13	MAY 20	129.75	AUG 26	133.01		
WATER YEAR 2002		HIGHEST	123.86	DEC 27, 2001		LOWEST	135.43	OCT 01, 2001	

402840111232201. LOCAL NUMBER (D-4-5)16bab-1.

LOCATION.--Lat 40°28'40", long 111°23'22", Hydrologic Unit 16020203.

Owner: Randy Wade.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--

DATUM.--Elevation of land-surface datum is 5,780 ft above NGVD of 1929. Measuring point: Top of casing, 0.55 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--February 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 184.65 ft below land-surface datum, Aug 21, 1997; lowest, 242.13 ft below land-surface datum, May 20, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	236.03	DEC 27	237.40	APR 02	237.77	JUN 18	238.22	SEP 30	233.36
29	236.67	JAN 31	237.98	22	238.42	JUL 25	236.56		
NOV 20	239.73	FEB 27	241.00	MAY 20	242.13	AUG 21	236.65		
WATER YEAR 2002		HIGHEST	233.36	SEP 30, 2002		LOWEST	242.13	MAY 20, 2002	

402750111232701. LOCAL NUMBER, (D-4-5)16ccd-1.

LOCATION.--Lat 40°27'50", long 111°23'27", Hydrologic Unit 16020203.

Owner: Blaine Webster.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 8 in., depth 150 ft.

DATUM.--Elevation of land-surface datum is 5,850 ft above NGVD of 1929. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Records good. Well buried during October-January and June (unable to measure).

PERIOD OF RECORD.--October 1988 to August 1989, May 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 75.93 ft below land-surface datum, Sep 25, 1996; lowest, 104.01 ft below land-surface datum, Dec 22, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	87.49	DEC 19	95.87	FEB 26	Z	APR 22	84.65	JUN 17	87.48	AUG 28	89.54
NOV 20	96.92	JAN 25	95.58	APR 02	93.61	MAY 20	82.81	JUL 24	93.06	SEP 24	84.10
WATER YEAR 2002		HIGHEST	82.81	MAY 20, 2002		LOWEST	96.92	NOV 20, 2001			

Z Inaccessible

402810111241601. LOCAL NUMBER (D-4-5)17caa-1.

LOCATION.--Lat 40°28'10", long 111°24'16", Hydrologic Unit 16020203.

Owner: Dennis Tack.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Diameter 6 in., depth 265 ft.

DATUM.--Elevation of land-surface datum is 5,770 ft above NGVD of 1929. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--January 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 210.49 ft below land-surface datum, Aug 24, 1998; lowest, 262.93 ft below land-surface datum, Jul 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	259.14	DEC 19	P	FEB 26	259.16	APR 22	257.61	JUN 17	259.82	AUG 26	262.62
NOV 20	260.02	JAN 25	P	APR 02	259.00	MAY 20	261.40	JUL 24	262.93	SEP 24	262.85
WATER YEAR 2002		HIGHEST	257.61	APR 22, 2002		LOWEST	262.93	JUL 24, 2002			

P Pumping

WASATCH COUNTY--Continued

402813111253701. LOCAL NUMBER (D-4-5)18cab-1.

LOCATION.--Lat 40°28'13", long 111°25'37", Hydrologic Unit 16020203.

Owner: Susan Miller.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.-- Diameter 6 in., depth 206 ft.

DATUM.--Elevation of land-surface datum is 5,660 ft above NGVD of 1929. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Records good.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 125.15 ft below land-surface datum, Jul 28, 1998; lowest, 176.08 ft below land-surface datum, May 20, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	169.18	DEC 19	172.54	FEB 26	P	APR 22	174.41	JUN 17	172.68	AUG 28	170.08
NOV 20	170.14	JAN 25	173.40	APR 02	174.87	MAY 20	176.08	JUL 24	171.16		
WATER YEAR 2002		HIGHEST	169.18	OCT 29, 2001		LOWEST	176.08	MAY 20, 2002			

P Pumping

WEBER COUNTY

411544111461001. LOCAL NUMBER, (A-6-2)18bad-1.

LOCATION.--Lat 41°15'44", long 111°46'10", Hydrologic Unit 16020102.

Owner: U.S. Bureau of Reclamation.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in., depth 155 ft, perforated 105-115 ft, 125-145 ft.

DATUM.--Land-surface datum is 4,924 ft above NGVD of 1929. Measuring point: Top of casing, 2.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--January 1956 to March 1966, October 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.93 ft below land-surface datum, Jun 5, 1985; lowest, 34.96 ft below land-surface datum, Nov 30, 1956.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	28.41	25.81	25.13	24.98	23.66	23.25	20.87	14.44	10.57	18.72	24.48	26.77
10	28.44	26.05	24.69	24.45	24.14	23.61	20.13	12.18	11.85	20.55	24.96	24.65
15	28.42	25.20	24.42	24.00	24.08	22.94	19.06	11.08	12.98	23.02	25.18	24.24
20	27.25	25.86	24.44	23.93	23.72	22.75	17.52	11.16	14.48	23.21	26.37	24.45
25	26.62	24.57	25.09	24.08	23.51	22.84	17.40	9.86	16.07	24.06	26.77	25.88
EOM	26.44	24.26	24.38	23.61	23.32	21.37	15.90	10.16	17.42	23.19	27.04	27.73

411348112013601. LOCAL NUMBER, (B-6-2)26ada-1.

LOCATION.--Lat 41°13'48", long 112°01'36", Hydrologic Unit 16020102.

Owner: Amalgamated Sugar Company.

AQUIFER.--Unconsolidated alluvium.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in., depth 595 ft, cased to 400 ft.

DATUM.--Land-surface datum is 4,275 ft above NGVD of 1929. Measuring point: Top of casing, 0.10 ft below land-surface datum.

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

PERIOD OF RECORD.--August 1935 to December 1950, January 1953 to October 1961, February 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 20.50 ft above land-surface datum, Mar 11, 1937; lowest, 23.08 ft. below land-surface datum, Sep 22, 23, 24, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.93	21.32	19.49	18.28	17.84	18.11	17.91	e17.81	17.45	18.91	20.94	22.71
10	22.04	21.04	19.24	18.11	18.03	18.06	17.90	17.78	17.48	19.32	21.31	22.86
15	22.13	20.73	18.99	17.93	18.11	18.00	e17.88	17.75	17.62	19.64	21.61	22.98
20	22.19	20.48	18.77	17.79	18.09	18.00	e17.87	17.64	17.79	19.94	21.88	23.02
25	22.08	20.06	18.68	17.74	18.08	17.91	e17.85	17.55	18.15	20.25	22.18	23.04
EOM	21.65	19.77	18.42	17.72	18.09	17.92	e17.84	17.44	18.53	20.61	22.48	22.95

e Estimated

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

WASATCH COUNTY

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	PH (UNITS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERA- TURE (DEG C)	HARDNESS (CA, MG) (MG/L)	CALCIUM, DISSOLVED (CA) (MG/L)
403146111272701	(D- 3- 4)26dba- 1	--	19	09/04/2002	7.4	680	13	320	96
403325111254601	(D- 3- 5)18cba- 1	100VLFL	--	09/04/2002	7.3	340	10.5	150	43.8
402842111263101	(D- 4- 4)12dcc- 1	100VLFL	--	08/28/2002	7.2	500		240	67.1
402937111214901	(D- 4- 5) 3dcc- 1	100VLFL	75	08/21/2002	6.8	495	11.5	210	68.2
402946111233901	(D- 4- 5) 4ccb- 1	100VLFL	217	08/21/2002	6.8	330	12.5	150	47.6
403003111255801	(D- 4- 5) 6bcc- 2	--	--	08/28/2002	7.1	435	12	200	62.4
402904111225801	(D- 4- 5) 9dbb- 1	--	--	08/21/2002	7.2	520	17.5	220	65.2
402840111232201	(D- 4- 5)16bab- 1	--	--	08/21/2002	7.1	610	10.5	280	77.7
402750111232701	(D- 4- 5)16ccd- 1	100VLFL	150	08/28/2002	7.6	460	14.5	220	54.4
402813111253701	(D- 4- 5)18cab- 1	--	206	08/28/2002	7.8	550		260	67.1

LOCAL IDENTIFIER	DATE OF SAMPLE	DISSOLVED MAGNESIUM, (MG) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	ALKALINITY (CAC03) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SI02) (MG/L)
(D- 3- 4)26dba- 1	09/04/2002	19	7.8	15.6	257	15.4	0.7	17.8
(D- 3- 5)18cba- 1	09/04/2002	9.32	2.62	9.17	134	9.36	0.1	29.4
(D- 4- 4)12dcc- 1	08/28/2002	16.6	1.17	8.52	215	12	E .1	18.8
(D- 4- 5) 3dcc- 1	08/21/2002	9.09	2.74	6.63	197	10.2	E .1	37.8
(D- 4- 5) 4ccb- 1	08/21/2002	7.32	2.09	4.65	136	6.31	E .1	38.6
(D- 4- 5) 6bcc- 2	08/28/2002	11.3	1.67	6.9	153	10.7	E .1	23.5
(D- 4- 5) 9dbb- 1	08/21/2002	14.7	2.91	15	233	11.8	0.1	29.9
(D- 4- 5)16bab- 1	08/21/2002	21.9	1.53	13.4	285	13.6	0.1	28
(D- 4- 5)16ccd- 1	08/28/2002	21.1	0.98	6.97	198	9.32	0.1	11.5
(D- 4- 5)18cab- 1	08/28/2002	22.2	1.16	8.42	229	24.8	E .1	10.1

LOCAL IDENTIFIER	DATE OF SAMPLE	DISSOLVED SULFATE (S04) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED NITRITE PLUS NITRATE, DISSOLVED (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
(D- 3- 4)26dba- 1	09/04/2002	71.9	404	1.31	<.06	100	<10	<2.0
(D- 3- 5)18cba- 1	09/04/2002	20.8	207	0.06	<.06	20	1030	19.8
(D- 4- 4)12dcc- 1	08/28/2002	17.5	278	1.74	0.06	30	<10	<2.0
(D- 4- 5) 3dcc- 1	08/21/2002	6.8	281	4.7	0.08	20	<10	<2.0
(D- 4- 5) 4ccb- 1	08/21/2002	13.5	211	2.15	0.08	20	<10	E1.2
(D- 4- 5) 6bcc- 2	08/28/2002	25.1	243	2.33	E.04	20	19	3.6
(D- 4- 5) 9dbb- 1	08/21/2002	19.5	306	1.71	0.07	40	<10	<2.0
(D- 4- 5)16bab- 1	08/21/2002	20.2	358	2.34	E.04	40	<10	<2.0
(D- 4- 5)16ccd- 1	08/28/2002	27.6	254	0.64	<.06	20	<10	<2.0
(D- 4- 5)18cab- 1	08/28/2002	12.5	289	1.34	<.06	20	<10	8.6

WATER QUALITY RESULTS FOR SAMPLES COLLECTED AT SELECTED GAGES TO MONITOR DROUGHT CONDITIONS

LOCAL IDENTIFIER	STATION NUMBER	DATE	TIME	GAGE HEIGHT	DISCHARGE, INSTANTANEOUS (CUBIC FEET PER SECOND)	PH, WATER, WHOLE, FIELD, (STANDARD UNIT)	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE, WATER (DEG C)
DOLORES RIVER NEAR CISCO	09180000	08-21-02	0855	--	2.1	8.0	4010	21.5
COLORADO RIVER NEAR CISCO	09180500	08-30-02	0810	1.45	1760	7.6	1660	18.5
GREEN RIVER NEAR JENSEN	09261000	09-10-02	1620	1.72	829	8.3	994	17.0
DUCHESNE RIVER NEAR RANDLETT	09302000	09-11-02	0920	1.90	60	8.5	691	19.0
WHITE RIVER NEAR WATSON	09306500	09-10-02	1120	2.33	134	8.2	2010	19.0
PRICE RIVER AT WOODSIDE	09314500	08-21-02	1030	2.29	2.1	8.2	2660	19.5
GREEN RIVER AT GREEN RIVER	09315000	09-03-02	0830	5.32	980	8.2	980	18.0
FREMONT RIVER NEAR CAINEVILLE	09330230	08-20-02	1600	4.76	17	8.4	660	21.5
ESCALANTE RIVER BELOW CALF CREEK	374635111245601	08-21-02	1330	--	--	8.3	450	19.5
SAN JUAN RIVER NEAR BLUFF	09379500	08-27-02	0930	3.31	416	8.3	590	21.0
VIRGIN RIVER AT VIRGIN	09406000	08-20-02	1415	7.49	51	8.4	810	26.5
VIRGIN RIVER NEAR ST. GEORGE	09413500	08-20-02	1030	4.07	7.4	8.4	1500	26.5
MAMMOTH CREEK NEAR HATCH	10173450	08-15-02	1130	0.49	1.5	8.0	230	14.0
		08-28-02	0830	0.45	1.3	8.2	220	9.5
SEVIER RIVER NEAR GUNNISON	10217000	08-20-02	0930	4.10	18	8.1	240	21.0
BEAVER RIVER AT ADAMSVILLE	10237000	08-22-02	1145	2.93	--	8.2	1000	18.5
COAL CREEK NEAR CEDAR CITY	10242000	08-20-02	1600	4.79	5.3	8.4	500	24.0

LOCAL IDENTIFIER	CALCIUM, DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	POTASSIUM, DISSOLVED (MG/L AS K)	SODIUM, DISSOLVED (MG/L AS NA)	ALKALINITY, WATER, DIS. FET LAB (MG/L AS CaCO3)	CHLORIDE DISSOLVED (MG/L AS CL)	SILICA DISSOLVED (MG/L AS SiO2)	SULFATE, DISSOLVED (MG/L AS SO4)
DOLORES RIVER NEAR CISCO	152	60.8	24.9	575	142	920	<.39	485
COLORADO RIVER NEAR CISCO	176	41.3	5.81	126	148	100	6.73	561
GREEN RIVER NEAR JENSEN	56.5	23.7	2.57	57.7	152	27.7	1.67	167
DUCHESNE RIVER NEAR RANDLETT	106	57.1	6.33	247	265	111	13.6	626
WHITE RIVER NEAR WATSON	84.3	38.5	4.07	81.3	205	28.7	8.34	288
PRICE RIVER AT WOODSIDE	124	116	7.13	311	--	--	E .08	--
GREEN RIVER AT GREEN RIVER	63.7	31.8	3.21	92.2	180	35.6	3.07	258
FREMONT RIVER NEAR CAINEVILLE	81.2	25.5	5.48	19.5	154	16.1	27.3	168
ESCALANTE RIVER BELOW CALF CREEK	47.8	17.3	3.72	24.2	115	34.9	13.4	75.7
SAN JUAN RIVER NEAR BLUFF	60.7	11.2	2.98	43.7	128	11.2	8.51	145
VIRGIN RIVER AT VIRGIN	64.4	28.0	4.42	57.7	152	67.4	9.88	155
VIRGIN RIVER NEAR ST. GEORGE	219	72.1	27.9	330	190	407	5.47	836
MAMMOTH CREEK NEAR HATCH	25.9	10.2	1.48	3.74	120	1.74	12.6	1.1
	26.2	10.5	1.29	3.64	116	1.61	14.3	1.3
SEVIER RIVER NEAR GUNNISON	92.5	82.7	<.10	370	--	--	19.3	--
BEAVER RIVER AT ADAMSVILLE	69.9	21.4	8.32	106	266	104	46.2	99.8
COAL CREEK NEAR CEDAR CITY	57.5	25.7	1.90	8.49	157	9.59	10.8	93.0

LOCAL IDENTIFIER	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3, DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	PHOSPHORUS, DISSOLVED DISSOLVED (MG/L AS P)	ORTHOPHOSPHATE, DISSOLVED (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS P)	IRON, DISSOLVED (UG/L AS FE)
DOLORES RIVER NEAR CISCO	--	--	--	--	--	--	--	<30
COLORADO RIVER NEAR CISCO	--	--	--	--	--	--	--	<10
GREEN RIVER NEAR JENSEN	E .010	.32	.014	<.002	E .004	<.007	.013	<10
DUCHESNE RIVER NEAR RANDLETT	.030	.84	.114	.016	.020	<.007	.121	17
WHITE RIVER NEAR WATSON	.033	.65	.300	.015	.006	<.007	.49	<10
PRICE RIVER AT WOODSIDE	--	--	--	--	--	--	--	<10
GREEN RIVER AT GREEN RIVER	--	--	--	--	--	--	--	<10
FREMONT RIVER NEAR CAINEVILLE	<.04	.24	<.05	<.008	<.06	<.02	E .03	29
ESCALANTE RIVER BELOW CALF CREEK	<.04	.22	.10	E .006	<.06	<.02	.12	12
SAN JUAN RIVER NEAR BLUFF	--	--	--	--	--	--	--	<10
VIRGIN RIVER AT VIRGIN	E .014	.11	.363	.004	<.004	<.007	.018	<10
VIRGIN RIVER NEAR ST. GEORGE	<.04	.57	5.28	.140	.83	.76	.82	<10
MAMMOTH CREEK NEAR HATCH	<.015	.18	.021	.003	.008	<.007	.018	11
	E .014	.17	<.013	<.002	.006	<.007	.014	<10
SEVIER RIVER NEAR GUNNISON	<.04	.39	3.80	.066	<.06	<.02	E .06	<10
BEAVER RIVER AT ADAMSVILLE	<.04	.37	<.05	<.008	<.06	E .01	<.06	E 7
COAL CREEK NEAR CEDAR CITY	E .008	E .08	<.013	<.002	<.004	<.007	.013	10

Remark codes used in this report:

< -- Less than

E -- Estimated value

WATER-QUALITY DATA OQUIRRH MOUNTAINS, TOOELE COUNTY, UTAH,
SURFACE- AND GROUND-WATER MONITORING PROGRAM

KENNECOTT UTAH COPPER ANALYSIS

STATION NUMBER	LOCAL IDENTIFIER	DATES	PH, WATER, WHOLE, FIELD, STANDARD UNITS	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE, WATER (DEG. C)	CALCIUM TOTAL (MG/L AS CA)	MAGNESIUM TOTAL (MG/L AS MG)	POTASSIUM TOTAL (MG/L AS K)	SODIUM TOTAL RECOVERABLE (MG/L AS NA)	ALKALINITY, WAT. DIS FET LAB, AS CaCO ₃ , (MG/L)	CHLORIDE DISSOLVED (MG/L AS CL)
402916112113301	(C- 4- 3) 9bcd	10-25-2001	8	545	--	65	24	1.2	12	218	14
402923112072301	(C- 4- 3)12aac	10-11-2001	7.5	1040	14	133	50	2.3	32	240	48
402923112072301	(C- 4- 3)12aac	01-24-2002	7.6	1100	13	167	58	2.9	39	241	46
402923112072301	(C- 4- 3)12aac	03-06-2002	7.2	1030	14	122	54.7	2.8	36	246	46
402923112072301	(C- 4- 3)12aac	04-15-2002	8.1	1090	13.5	142	52	2.6	35	245	49
402923112072301	(C- 4- 3)12aac	09-20-2002	7.9	1010	15	140	57	2.9	37	242	46
403055112060401	(C- 3- 2)31add- 1	11-14-2001	8.4	530	15	9	3	1.9	118	175	27
403055112060402	(C- 3- 2)31add- 2	11-16-2001	8	1010	16	65	42	3.3	40	234	112
403139112054601	(C- 3- 2)29cbd- 1	10-29-2001	8.2	2240	15	355	129	5.9	33	212	41
403139112054601	(C- 3- 2)29cbd- 1	03-18-2002	7.5	2190	15	351	126	6	30	206	40
403139112054601	(C- 3- 2)29cbd- 1	05-20-2002	7.7	2150	15	352	121	4.4	31	220	41
403139112054601	(C- 3- 2)29cbd- 1	08-20-2002	7.9	2170	16	366	130	3.7	31	217	39
403140112054601	(C- 3- 2)29cbd- 2	03-13-2002	6	3240	16	702	230	10	60	183	118
403140112054601	(C- 3- 2)29cbd- 2	06-06-2002	5.9	3370	18	662	207	21.9	172	118	114
403140112054601	(C- 3- 2)29cbd- 2	08-16-2002	6.2	3190	19	590	185	8.5	52	143	114
403140112054601	(C- 3- 2)29cbd- 2	09-24-2002	5.9	3360	19	656	178	8.5	55	112	106
403151112112001	(C- 3- 3)28bcd- 2	04-18-2002	--	--	--	397	119	3.4	14	204	16
403225112085701	(C- 3- 3)23cdc- 1	12-19-2001	--	--	--	396	241	7.3	36	303	54
403225112085701	(C- 3- 3)23cdc- 1	03-04-2002	6.6	2730	13	348	260	8	36	305	56
403225112085701	(C- 3- 3)23cdc- 1	05-13-2002	6.8	2260	13	298	179	6.2	29	263	46
403225112085701	(C- 3- 3)23cdc- 1	09-06-2002	6.8	2410		333	206	7.7	34	255	46
403225112085701	(C- 3- 3)23cdc- 1	09-24-2002	7	2350		308	213	7.3	34	249	48
403241112053301	(C- 3- 2)20bdd- 1	11-07-2001	8	1030	16	81	31	13.5	61	166	178
403241112053302	(C- 3- 2)20bdd- 2	10-29-2001	--	--	--	48	16	3.1	15	117	44
403258112123201	(C- 3- 3)20bad-S1	10-19-2001	7.4	500	9	52	24	1.6	14	179	14
403258112123201	(C- 3- 3)20bad-S1	01-31-2002	7.9	490	4.5	56	27	1.3	15	184	12
403258112123201	(C- 3- 3)20bad-S1	04-04-2002	--	--	--	57	27	1.2	15	186	13
403258112123201	(C- 3- 3)20bad-S1	08-21-2002	7.6	520	10	60	29	2.7	19	176	14
403309112115501	(C- 3- 3)17ddc	08-21-2002	7.4	600	9	74	39	3.5	19	235	10
403457112113401	(C- 3- 3) 4ccb	08-20-2002	7.4	760	10	95	36	1.6	39	281	36
403636112152401	(C- 2- 4)26ddd-S1	10-19-2001	7.3	640	16.5	66	25	2.7	30	248	39
403636112152401	(C- 2- 4)26ddd-S1	01-31-2002	7.3	640	16	61	27	2.4	33	254	36
403636112152401	(C- 2- 4)26ddd-S1	04-04-2002	--	--	--	49	27	2.3	32	254	36
403636112152401	(C- 2- 4)26ddd-S1	08-20-2002	7.5	640	16.5	74	29	2.1	34	251	36
403835112171801	(C- 2- 4)15cac-S1	08-20-2002	7.3	2120	17	107	51	10.6	292	235	414
404202112064701	(C- 1- 2)30cac- 1	10-10-2001	8.5	1240	17	82	34	13.4	153	223	233
404202112064701	(C- 1- 2)30cac- 1	01-11-2002	7.4	1230	17	82	33	12.3	144	229	230
404202112064701	(C- 1- 2)30cac- 1	04-08-2002	7.2	1230	18.5	81	31	11.7	140	233	234
404202112064701	(C- 1- 2)30cac- 1	07-08-2002	7.3	1280	20	62	34	12.9	148	216	227

U.S.G.S. ANALYSIS

STATION NUMBER	LOCAL IDENTIFIER	DATES	PH, WATER, WHOLE, FIELD, STANDARD UNITS	SPECIFIC CONDUCTANCE (US/CM)	TEMPERATURE, WATER (DEG. C)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM DISSOLVED (MG/L AS MG)	POTASSIUM DISSOLVED (MG/L AS K)	SODIUM DISSOLVED (MG/L AS NA)	ALKALINITY, WAT. DIS FET LAB, AS CaCO ₃ , (MG/L)	CHLORIDE DISSOLVED (MG/L AS CL)
403109112153003	(C- 3- 4)35aac- 3	10-19-2001	8	495	8	65.1	17.8	0.75	9.97	217	10.4
403258112123201	(C- 3- 3)20bad-S1	01-31-2002	7.9	490	4.5	50.9	24.3	1.24	13	184	11.5
403309112115501	(C- 3- 3)17ddc	08-21-2002	7.4	600	9	66.4	32.9	0.75	12.2	235	8.66
403457112113401	(C- 3- 3) 4ccb	08-20-2002	7.4	760	10	84.5	30.8	1.17	31.6	285	38.1
403547112155101	(C- 2- 4)35dcc- 1	07-22-2002	7	2490	20	139	93.9	6.54	199	186	588
403547112155102	(C- 2- 4)35dcc- 2	07-22-2002	7	4330	16.5	357	192	6.1	214	151	1180
403547112155103	(C- 2- 4)35dcc- 3	07-22-2002	7.2	1180	16.5	88.6	36.6	2.56	98.7	215	194
403636112152401	(C- 2- 4)26ddd-S1	10-19-2001	7.3	640	16.5	63.1	24.5	2.2	29.8	256	40.1

WATER-QUALITY DATA OQUIRRH MOUNTAINS, TOOELE COUNTY, UTAH,
SURFACE- AND GROUND-WATER MONITORING PROGRAM

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KENNECOTT UTAH COPPER ANALYSIS

STATION NUMBER	SILICA, TOTAL (MG/L AS SI02)	SULFATE (MG/L AS S04)	SOLIDS, RESIDUE AT 180 DEG C, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE, TOTAL, (MG/L AS N)	ARSENIC, DISSOLVED (UG/L AS AS)	CADMIUM, DISSOLVED (UG/L AS CD)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGA- NESE, DISSOLVED (UG/L AS MN)	MERCURY, DISSOLVED (UG/L AS HG)"	ZINC, DISSOLVED (UG/L AS ZN)
402916112113301	9	59	297	0.3	<.050	<5.0	<1	<20	<300	<5	<10	<.20	70
402923112072301	--	328	730	<.20	<.500	20	<1	<20	30	<5	150	<.20	120
402923112072301	15	292	720	<.20	<.050	21	<1	<20	30	<5	140	<.20	120
402923112072301	15	314	759	<.20	<.050	20	<1	<20	30	<5	120	<.20	120
402923112072301	15	342	780	<.20	<.050	27	<1	<20	50		50	0.2	110
402923112072301	16	319	693	<.20	<.050	19	<1	<20	<30	<5	50	<.20	100
403055112060401	15	44	332	<.20	<.050	<5.0	<1	<20	<300	<5	20	<.20	<10
403055112060402	14	101	613	<.20	<.050	8	<1	<20	940	<5	40	<.20	<10
403139112054601	25	1080	1970	<.20	<.050	9	5	<20	<300	<5	2770	<.20	3420
403139112054601	25	1080	1900	<.20	<.050	16	4	30	<300	<5	2430	<.20	3400
403139112054601	27	1100	1780	<.20	<.050	9	4	<20	<300	<5	2600	<.20	3190
403139112054601	27	1160	1870	<.20	<.050	9	5	<20	<300	<5	2630	<.20	3550
403140112054601	33	2100	3200	<.20	<.050	756	50	350	63700	<5	12200	<.20	31900
403140112054601	31	2420	3250	<.20	<.050	1130	40	150	93300	<5	--	<.20	47500
403140112054601	28	2200	3170	<.20	<.050	1260	50	190	107000	<5	14100	<.20	42700
403140112054601	28	1850	3010	<.20	--	933	20	40	81700	<5	11400	<.20	26100
403151112112001	15	1320	1860	<.20	<.050	<5.0	<1	40	2580	<5	2200	<.20	880
403225112085701	28	1450	2390	<.20	<.050	12	<1	<20	1260	<5	--	<.20	450
403225112085701	26	1520	2400	<.20	<.050	17	<1	<20	10700	<5	3060	<.20	750
403225112085701	28	1240	2140	<.20	<.050	14	<1	<20	<300	<5	2650	<.20	430
403225112085701	29	1480	2090	<.20	<.050	12	<1	<20	<300	<5	2620	<.20	400
403225112085701	28	1230	2090	--	--	16	<1	<20	2320	<5	2440	<.20	450
403241112053301	76	42	680	0.4	<.050	<5.0	<1	<20	<300	<5	<10	<.20	<10
403241112053302	17	22	232	<.20	<.050	10	<1	<20	<300	<5	10	<.20	<10
403258112123201	10	66	310	0.9	<.050	<5.0	<1	<20	<300	<5	<10	<.20	<10
403258112123201	10	62	270	0.9	<.050	<5.0	<1	<20	<300	<5	<10	<.20	<10
403258112123201	9	68	280	0.2	<.050	<5.0	<1	<20	<300	<5	<10	<.20	<10
403258112123201	8	71	281	0.9	<.050	<5.0	<1	<20	<300	<5	<10	<.20	<10
403309112115501	8	81	356	0.7	<.050	<5.0	<1	<20	<300	<5	<10	<.20	<10
403457112113401	9	80	451	<.20	<.500	<5.0	<1	<20	<300	<5	<10	<.20	40
403636112152401	10	32	368	<.20	<.050	<5.0	<1	<20	<300	<5	<10	<.20	<10
403636112152401	10	32	433	<.20	<.050	<5.0	<1	<20	<300	<5	<10	<.20	<10
403636112152401	10	33	410	0.7	<.050	<5.0	<1	<20	<300	<5	<10	<.20	<10
403636112152401	10	32	388	<.20	<.050	<5.0	<1	<20	<300	<5	<10	<.20	<10
403835112171801	19	167	1190	1.6	<.050	<5.0	<1	<20	<300	<5	<10	<.20	<10
404202112064701	16	84	719	1	<.050	8	<1	<20	<300	<5	<10	<.20	<10
404202112064701	16	74	700	0.9	<.050	10	<1		<300	<5	10	<.02	<10
404202112064701	16	84	700	1	<.050	12	<1	<20	<300	<5	<10	<.20	<10
404202112064701	16	69	743	1	<.050	10	<1	<20	<300	<5	<10	<.20	<10

U.S.G.S. ANALYSIS

STATION NUMBER	SILICA, DISSOLVED (MG/L AS SI02)	SULFATE, DISSOLVED (MG/L AS S04)	SOLIDS, RESIDUE ON EVAPORATION AT 180 DEG C, DISSOLVED (MG/L)	NITROGEN, NITRITE PLUS NITRATE DISSOLVED (MG/L AS N)	ARSENIC, DISSOLVED (UG/L AS AS)	CADMIUM, DISSOLVED (UG/L AS CD)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGA- NESE, DISSOLVED (UG/L AS MN)	MERCURY, DISSOLVED (UG/L AS HG)	ZINC, DISSOLVED (UG/L AS ZN)
403109112153003	8.88	36.8	234	0.47	2.6	0.05	0.6	<10	0.09	0.6	<.01	23
403258112123201	8.99	59.4	290	0.92	2.2	E.02	0.4	<10	0.14	0.4	<.01	<1
403309112115501	8.72	75.8	369	0.74	0.7	<.04	1.2	<10	<.08	0.3	<.01	1
403457112113401	9.08	71.1	459	0.12	0.7	0.22	0.8	<10	<.08	E.1	<.01	41
403547112155101	27.5	82.4	1510	15.4	66.4	--	--	13	--	159	--	--
403547112155102	27	182	2930	28.4	6	--	--	<30	--	<5.0	--	--
403547112155103	22.9	72.1	667	5.1	5.7	--	--	<10	--	<2.0	--	--
403636112152401	9.7	30.9	286	0.18	0.4	E.02	0.4	<10	E.07	E.1	<.01	1

HYDROLOGIC-DISCHARGE DATA FOR OQUIRRH MOUNTAINS, TOOELE COUNTY, UTAH,
SURFACE- AND GROUND-WATER MONITORING PROGRAM

DISCHARGE MEASUREMENTS AT SELECTED SPRINGS AND TUNNELS, WATER YEAR 2002

Site ID	Local Number	Name	Date	Discharge (gallons per minute)
TOOELE VALLEY				
403636112152401	(C-2-4)26ddd-S1	Rose Spring	10-19-2001	218
			01-31-2002	167
403457112113401	(C-3-3) 4ccb	Pass Canyon Tunnel	10-19-2001	74.9
			04-04-2002	86.4
			08-20-2002	71.2
403309112115501	(C-3-3)17ddc	Bingham West Dip Tunnel	10-26-2001	141
			01-31-2002	135
			04-04-2002	122
			08-21-2002	135
403109112153003	(C-3-4)35aac- 3	Middle Canyon Weir Box	10-26-2001	335
			01-31-2002	274
			03-28-2002	274

MONTHLY MEAN DISCHARGES AT SELECTED SPRINGS, TUNNELS, AND MINE WORKINGS, WATER YEAR 2002

Site ID	Local Number	Name	Date	Discharge (gallons per minute)
SALT LAKE COUNTY				
403139112054601	(C-3-2)29cbd	Bingham Tunnel reported by: Kennecott Utah Copper	10-2001	995
			11-2001	e995
			12-2001	e990
			01-2002	990
			02-2002	e980
			03-2002	930
			04-2002	980
			05-2002	982
			06-2002	951
			07-2002	980
403140112054601	(C-3-2)29cbd-2	Lark Shaft reported by: Kennecott Utah Copper	10-2001	0
			11-2001	0
			12-2001	0
			01-2002	0
			02-2002	0
			03-2002	1,400
			04-2002	750
			05-2002	1,080
			06-2002	1,160
			09-2002	700
403225112085701	(C-3-3)23cdc-1	North Ore Shoot reported by: Kennecott Utah Copper	10-2001	1,520
			11-2001	1,330
			12-2001	1,160
			01-2002	862
			02-2002	782
			03-2002	975
			04-2002	1,470
			05-2002	1,400
			06-2002	1,380
			07-2002	1,350
402923112072301	(C-4-3)12aac	Butterfield Tunnel reported by: Kennecott Utah Copper	10-2001	199
			11-2001	203
			12-2001	200
			01-2002	194
			02-2002	188
			03-2002	221
			04-2002	226
			05-2002	232
			06-2002	165
			07-2002	166
			08-2002	128
			09-2002	131

e Estimated

HYDROLOGIC-DISCHARGE DATA FOR OQUIRRH MOUNTAINS, TOOELE COUNTY, UTAH,
SURFACE- AND GROUND-WATER MONITORING PROGRAM

MONTHLY MEAN DISCHARGES AT SELECTED SPRINGS, TUNNELS, AND MINE WORKINGS, WATER YEAR 2002

Site ID	Local Number	Name	Date	Discharge (gallons per minute)
TOOELE COUNTY				
403151112112001	(C-3-3)28bcd-2	Carr Fork Service Shaft reported by: Kennecott Utah Copper	10-2001	0
			11-2001	0
			01-2002	0
			02-2002	0
			03-2002	0
			04-2002	0
			05-2002	0
			06-2002	0
			07-2002	712
			08-2002	1,010
			09-2002	1,710
403119112154204	(C-3-4)35aba-S4	Middle Canyon Springs (Combined flow of Big and Little Springs) reported by: Tooele City	10-2001	0
			11-2001	0
			12-2001	0
			01-2002	40
			02-2002	0
			03-2002	0
			04-2002	0.68
			05-2002	467
			06-2002	0
			07-2002	0
			08-2002	0
			09-2002	0
402932112155401	(C-4-4)11baa-S1	Left Hand Fork Settlement Canyon reported by: Tooele City	10-2001	549
			11-2001	508
			12-2001	340
			01-2002	463
			02-2002	411
			03-2002	301
			04-2002	328
			05-2002	301
			06-2002	327
			07-2002	402
			08-2002	438
			09-2002	507

QUALITY OF GROUND-WATER IN SELECTED DOMESTIC WELLS IN OR NEAR OILFIELD ACTIVITIES IN DUCHESNE COUNTY,
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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STATION NUMBER & LOCAL IDENTI- FIER	Date	Time	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	DEPTH OF WELL, TOTAL (FEET) (72008)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
401613110260701 U(C-2-5)34abb-1	AUG 28...	1340	9.4	680	18.5	2.11	148	E.02	-138	-18.31
401940110023601 U(C-2-1)7bbd-1	AUG 29...	1330	8.0	510	17.0	19.8	820	<.03	-127	-17.20
402114110003301 U(C-1-1)33bcc-1	AUG 29...	0950	7.3	1700	13.5	.82	220	E.02	-126	-16.98
402116110030801 U(C-1-2)36adc-1	AUG 28...	1720	7.7	340	14.0	1.22	170	<.03	-137	-18.21
402135110051901 U(C-1-2)27ddc-1	AUG 29...	1120	7.6	345	14.0	1.21	420	<.03	-138	-18.36
402246110061501 U(C-1-2)22cbb-1	AUG 29...	1210	7.6	390	20.5	1.87	810	E.02	-138	-18.11
402319110025601 U(C-1-2)24aaa-1	AUG 29...	1250	7.7	345	13.5	1.30	260	<.03	-136	-17.95

E Estimated value.

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

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CONVERSION FACTORS

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

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32$$

