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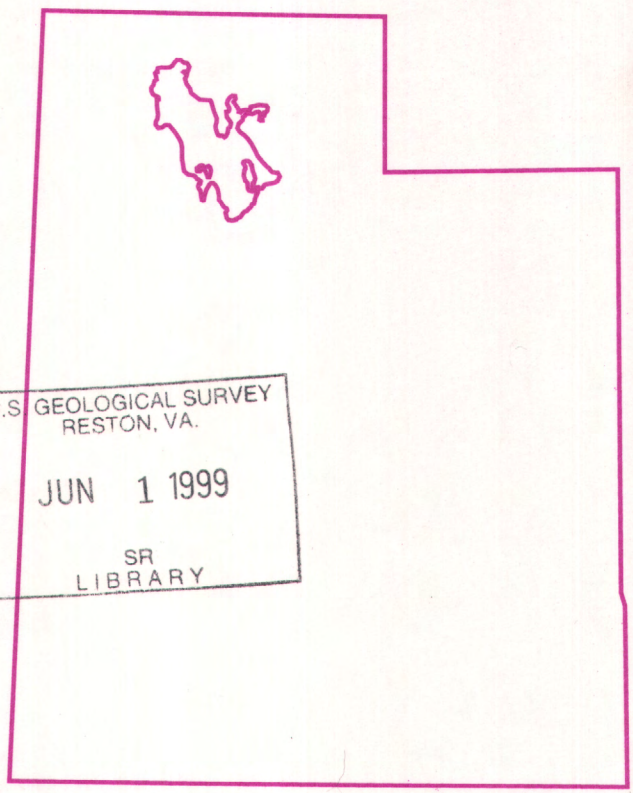
Water Resources Data
Utah
Water Year 1994



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U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-94-1
Prepared in cooperation with the State of Utah
and with other agencies

CALENDAR FOR WATER YEAR 1994

1993

OCTOBER

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1994

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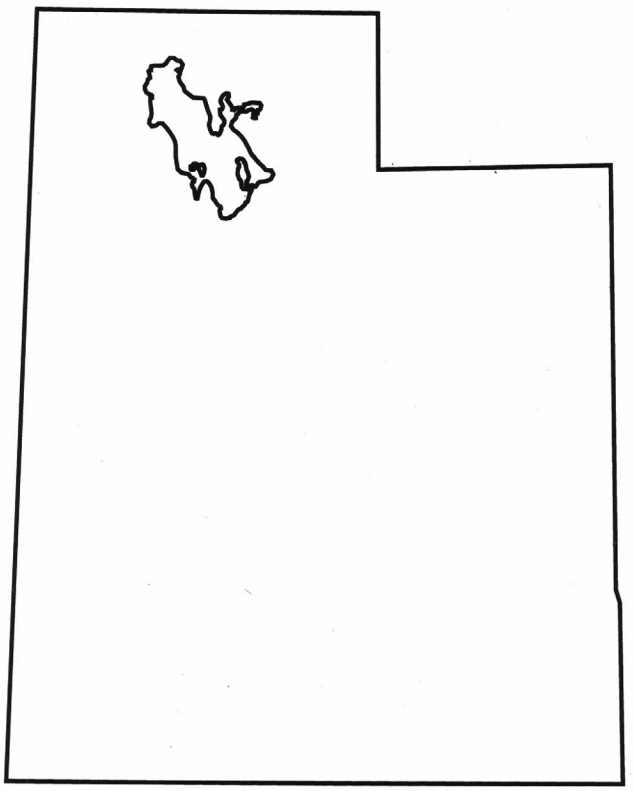
Water Resources Data
Utah
Water Year 1994

by M.D. ReMillard, G.A. Birdwell, T.K. Lockner, L.R. Herbert,
D.V. Allen, and D.D. Canny



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

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

GEOLOGICAL SURVEY

Gordon Eaton, Director

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Salt Lake City, Utah 84104

1995

PREFACE

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 Nations 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 signifcantly to the collection, processing, and tabulation of the data:

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Howard K. Christiansen	Michael Hawkins	James Sory
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Water resources data for the 1994 water year for Utah consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water quality of ground water. This report contains discharge records for 184 gaging stations; stage and contents for 23 lakes and reservoirs; and water quality for 17 hydrologic stations and 165 wells; and water levels for 48 observation wells. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Utah.

14. SUBJECT TERMS
*Utah, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analysis, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses.

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East Fork Sevier River near Kingston (d)	10189000	269
Piute Reservoir near Marysvale (e)	10191000	270
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Clear Creek above diversions, near Sevier (d)	10194200	273
Sevier River near Sigurd (d)	10205000	274
Salina Creek near Emery (d)	10205030	275
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Oak Creek near Spring City (d)	10215700	277
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Sevier River near Juab (d)	10219000	281
Chicken Creek near Levan (d)	10219200	282
Sevier River near Lynndyl (d,c,b,s)	10224000	283
Oak Creek above Little Creek, near Oak City (d)	10224100	286
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Beaver River near Beaver (d)	10234500	287
Beaver River at Adamsville (d)	10237000	288
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BEAVER COUNTY	
Well 382020112585901 Local number (C-28-10)28cdd- 1	305
BOX ELDER COUNTY	
Well 414236112101201 Local number (B-11- 3)10abb- 4	305
Well 414411112543701 Local number (B-12- 9)30cda- 1	305
Well 415703112514501 Local number (B-14- 9) 9add- 1	305
IRON COUNTY	
Well 375241112471001 Local number (C-34- 8) 5bca- 1	306
Well 374252113391801 Local number (C-35-16)33bcc- 1	306
Well 373735113393801 Local number (C-36-16)29daa- 1	306
JUAB COUNTY	
Well 395259113430401 Local number (C-11-17)12cbb- 1	306
Well 393143111523301 Local number (C-15- 1)12aba- 1	307
KANE COUNTY	
Well 370523112334702 Local number (C-42- 6)30dcc- 2	307
MILLARD COUNTY	
Well 393046112231301 Local number (C-15- 5)15dad- 1	307
Well 393020112362201 Local number (C-15- 7)23bac- 1	307
Well 385844112245801 Local number (C-21- 5)21aba- 1	308
Well 384906112330601 Local number (C-23- 6)17baa- 1	308
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Well 403916111575901 Local number (C- 2- 1) 9ccc- 1	308
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Well 373830109283201 Local number (D-36-22)22daa- 1 309
TOOELE COUNTY
Well 401312112442301 Local number (C- 7- 8)10cbd- 1 309
UINTAH COUNTY
Well 403158109372201 Local number (D- 3-20)25abc- 2 309
UTAH COUNTY
Well 401818112014501 Local number (C- 6- 2)14aba- 1 310
Well 402333111513401 Local number (D- 5- 1) 8dcc- 1 310
WASATCH COUNTY
Well 403146111272701 Local number (D- 3- 4)26dba- 1 310
Well 403403111253501 Local number (D- 3- 5) 7cdb- 1 310
Well 403325111254601 Local number (D- 3- 5)18cba- 1 311
Well 403305111251901 Local number (D- 3- 5)18dcc- 1 311
Well 403243111252701 Local number (D- 3- 5)19bdd- 2 311
Well 403237111255201 Local number (D- 3- 5)19cbb- 1 311
Well 403127111240301 Local number (D- 3- 5)29cac- 1 312
Well 403149111255601 Local number (D- 3- 5)30bcc- 1 312
Well 403004111280301 Local number (D- 4- 4) 2bcd- 1 312
Well 402955111281101 Local number (D- 4- 4) 2cbb- 1 312
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Well 402753111282001 Local number (D- 4- 4)15ddd- 3 314
Well 402742111281501 Local number (D- 4- 4)23bbb- 2 314
Well 402937111214901 Local number (D- 4- 5) 3dcc- 1 314
Well 403003111255801 Local number (D- 4- 5) 6bcc- 2 314
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Well 402834111202601 Local number (D- 4- 5)14aac- 1 315
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DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE -ONLY STATIONS

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. 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.

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, Colorado (d)	09177500	12	1944-67
Deep Creek near Paradox, Colorado (d)	09178000	---	1944-53
TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER			
Geyser Creek near Paradox, Colorado (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 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 Ranger St) near Robertson, Wy (d)	09217900	126	1937-39 1966-86
Blacks Fork at Blacks Fork Ranger Station, Ut (d)	09218000	a130	1937-39
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

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
GREEN RIVER BASIN--Continued			
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
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
ASHLEY CREEK BASIN			
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 Pk Res 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 below Trout Creek near Vernal, Ut	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
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

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
DUCHESNE RIVER BASIN--Continued			
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 Dry Hollow near Hanna, Ut (d)	09275000	43.8	1950-68
			1974-81
Wolf Creek above Rhoades Canyon near Hanna, Ut (d)	09276000	10.6	1946-84
Wolf Creek near Hanna, Ut	09276500	a19	1922-23
Duchesne River at Hanna, Ut (d)	09277000	a230	1953-61
Comb. flow Duchesne Riv & Duchesne Tunnel nr Tabiona, Ut (d)	09277501	---	1919-67
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
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 blw mouth of Indian Creek, Strawberry Valley, Ut (d)	09284500	182	1903-06
			1909
Willow Creek near Soldier Springs, Ut (d)	09285500	a44	1943-47
Strawberry River above Red Creek near Fruitland, Ut (d)	09285700	363	1964-81
Red Creek near Fruitland, Ut (d)	09286500	a89	1918-22
			1956-61
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
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
Lake Fork River (below Forks) near Altonah, Ut (d)	09293500	304	1904
			1907-10
			1917-20
			1976-81

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
DUCHESNE RIVER BASIN--Continued			
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 Hwy 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
Uinta River at Randlett, Ut (d)	09301500	1,064	1899-1904
			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

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
WHITE RIVER BASIN--Continued			
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
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 Summt, 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

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
PRICE RIVER BASIN--Continued			
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
Price River at Woodside, Ut (d)	09314500	1,540	1909-10
			1911
			1945-92
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
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, nr Castle Dale, Ut (d)	09328100	1,284	1975-86
Cresent 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
Fremont River near Frement, Ut (d)	09329500	205	1949-58
Pine Creek near Bicknell, Ut (d)	09329900	104	1965-80
Plesant 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

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
DIRTY DEVIL RIVER BASIN--Continued			
Ivie Creek above diversions near Emery, Ut (d)	09331500	a50	1951-61
Convulsion Canyon near Emery, Ut (d)	09331850	21.6	1981-84
Quitchupah 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
Dirty Devil River above Poison Spring Wash, near Hanksville (d)	09333500	4,159	1948-93
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
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
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
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

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
VIRGIN RIVER BASIN--Continued			
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
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	a135	1939-48
Ash Creek Reservoir near New Harmony, Ut (e)	09406600	---	1973-82
South Ash Creek below Mill Creek near Pintura, Ut (d)	09406700	11.0	1966-82
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
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
Virgin River near Hurricane, Ut (d)	09408150	1,499	1967-89
Fort Pierce Wash near St. George, Ut (d)	09408195	1,349	1985-89
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 near Santa Clara, Ut (d)	09410400	410	1965-74
Santa Clara River (Creek) near St. George, Ut (d)	09412500	502	1909-13
Virgin River near St. George, Ut (d)	09413500	3,961	1951-57
THE GREAT BASIN			
Great Salt Lake at Promontory Point, Ut (e)	10010050	---	1975-82
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
Sulpher Creek below reservoir, near Evanston, Wy (d)	10015900	69.2	1958-92
Sulpher 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
Bear River near Woodruff, Ut (d)	10020500	a870	1943-61

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
BEAR RIVER BASIN--Continued			
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 below Pixley Dam near Cokeville, Wy (d)	10028500	2,032	1941-43
			1952-56
			1958
Bear River above Sublette Creek near Cokeville, WY (d)	10029500	a2,110	1948-55
Smiths Fork above Hobble Creek near Geneva, Id (d)	10031000	---	1944-46
Hobble 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
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 Pairs, 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
Bear River at Pescadero, Id (d)	10068500	3,705	1921-54
Georgetown Creek near Georgetown, Id (d)	10069000	22.2	1911-14
			1939-56

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
BEAR RIVER BASIN--Continued			
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
Bear River at Soda Springs, Id (d)	10075000	3,972	1896-98
			1925-44
			1944-49
			1953
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
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	a200	1962-63
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

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
BEAR RIVER BASIN--Continued			
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
(Blacksmith Fork Municipal Powerplant Race)			1914-17
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
(Blacksmith Fork at Hyrum)			1904-10
			1914-16
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
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), Idaho (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 blw Bear River Duck Club Canal nr Bear River City, Ut (d)	10125800	a698	1964-74
TRIBUTARIES TO GREAT SALT LAKE BETWEEN BEAR RIVER AND WEBER RIVER			
Sulphur Creek near Corrinne, 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

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
TRIBUTARIES TO GREAT SALT LAKE BETWEEN BEAR RIVER AND WEBER RIVER--Continued			
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
East Fork Chalk Creek near Coalville, Ut (d)	10130700	a35	1965-74
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
Threemile Creek near Park City, Ut (d)	10133700	2.68	1964-74 1982-84
East Canyon Creek near Park City, Ut (d)	10133900	68.9	1982-84
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
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 N. 475 W., Sunset, Ut (d)	10141395	0.28	1948-83
Howard Slough at Hooper, Ut (d)	10141400	---	1952-55 1972-84

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
TRIBUTARIES TO GREAT SALT LAKE BETWEEN WEBER RIVER AND JORDAN RIVER--Continued			
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
Centerville Creek above diversions near Centerville, Ut (d)	10143500	3.15	1950-80
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 S. 200 W., Bountiful, Ut (d)	10145126	0.28	1949-83
JORDAN RIVER BASIN			
Salt Creek near Nephi, Ut (d)	10145500	a95	1925-38
Salt Creek at Nephi, Ut (d)	10146000	95.6	1951-80
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
Nebo Creek near Thistle, Ut (d)	10148400	36.7	1964-73
Spanish Fork at Thistle, Ut (d)	10148500	450	1908-25
			1932-74
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
Shingle Creek near Kamas, Ut (d)	10154000	a8.4	1963-73
Snake Creek near Charleston, Ut (d)	10156000	38.6	1938-50
Round Valley Creek near Wallsburg, Ut (d)	10158500	71.9	1938-50
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 Co. 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

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
JORDAN RIVER BASIN--Continued			
Utah Lake near Lehi (at Geneva) (near Spanish Fork), Ut (e)	10166500	2,965	1883-1960
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 So. 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
Upper Canal at Mill Creek (2000 East) near Salt Lake City, Ut (d)	10167127	---	1980-81
Jordan & Salt Lake Canal at Little Cottonwood Creek nr SLC, Ut (US) (d)	10167141	---	1980-82
Jordan & Salt Lake Canal at Little Cottonwood Creek nr SLC, Ut (DS) (d)	10167142	---	1980-82
Jordan & Salt Lake Canal at Big Cottonwood Creek nr Murray, Ut (US) (d)	10167145	---	1980-81
Jordan & Salt Lake Canal at Big Cottonwood Creek nr 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 Ave 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
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	1948-83
			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	---	1987-89
Little Cottonwood Creek at Jordan River near Salt Lake City, Ut (d)	10168000	---	1980-84
			1987-88
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)	10169500	a78	1933-35
(at 2nd West near Murray, Ut)			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

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
JORDAN RIVER BASIN--Continued			
Combined flow Jordan River and Surplus Canal at Salt Lake City, Ut (d)	10170490	---	1943-89
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 So. Conduit at Jordan River, Salt Lake City, Ut (d)	10172351	---	1986-89
North Conduit of 1300 So. 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 Cudahay Lane near Salt Lake City, Ut (d)	10172600	q3,590	1963-68
			1974-76
Sewage Canal at Cudahay Lane near Salt Lake City, Ut (d)	10172620	---	1963-67
Storm Drain at International Center near Salt Lake City, Ut (d)	10172624	0.08	1948-83
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			
Middle Canyon Creek near Tooele, Ut (d)	10172794	12.1	1984-86
North Willow Creek near Grantsville, Ut (d)	10172805	5.38	1979-92
GREAT SALT LAKE DESERT			
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

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
GREAT SALT LAKE DESERT--Continued			
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
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
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 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
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
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

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
SEVIER LAKE BASIN--Continued			
Monearoe 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 Fillmore, 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
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
Big Hollow at Fountain Green, Ut (d)	10215500	---	1965-68
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
Wellington Canal near Mills, Ut (d)	10219100	---	1914-18
Sevier River near Mills, Ut (d)	10220000	a5,800	1914-17
Sevier River Land and Water Co. 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 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

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Period of record
SEVIER LAKE BASIN--Continued			
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
Minersville Reservoir near Minersville, Ut (e)	10238500	534	1915-22 1937
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 CITY VALLEY			
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
George Creek near Yost, Ut (d)	13077700	7.84	1959-89
Clear Creek near Naf, Id (d)	13079000	20.2	1910-11 1944-70

Explanation:
a : approximate
q : includes 255 sq mi in closed basin in Cedar Valley
DS : downstream
US : upstream

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following stations were discontinued as continous-record surface-water-quality stations prior to the 1990 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.

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	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
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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

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
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 Mt 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 Hwy 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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

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 Riv blw diversion works nr Whiterocks, Ut	09297600	216	c,t	1977-81
East Channel Uinta Riv blw diversion works near Whiterocks, Ut	09297700	215	c,t	1977-81
East Channel Uinta Riv at County Road Bridge nr Whiterocks, Ut	09297800	253	c,t	1977-81
East Channel Uinta Riv 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 Hwy 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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
WHITE RIVER BASIN--Continued				
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
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	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

DISCONTINUED SURFACE-WATER QUALITY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
PRICE RIVER BASIN--Continued				
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
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 Riv, 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 1977-1978
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				
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
Quitchupah 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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
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
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	1974 1983-86
North Fork Virgin River above Zion Narrows near Glendale, Ut	09405450	45.5	c,s,t	1979 1983-86
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 River above Winsor Dam near Santa Clara, Ut	09410000	338	c,s,t	1962-72
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 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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
BEAR RIVER BASIN--Continued				
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	2,03	c,t	1958 1965-68 1973-83 1988-91
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	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
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	a200	c,t	1959 1967-68
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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
BEAR RIVER BASIN--Continued				
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
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
West Canal below Salt Creek diversion near Tremonton, Ut	10117530	---	c,t	1979-83
Deep Creek below First Creek near Malad City, Id	10125000	a32	c,t	1967
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 blw Bear River Duck Club Canal nr Bear River City, Ut	10125800	a698	c,t	1965-68
TRIBUTARIES TO GREAT SALT LAKE BETWEEN BEAR RIVER AND WEBER RIVER				
Sulphur Creek near Corrinne, 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
East Fork Chalk Creek near Coalville, Ut	10130700	a35	c,t	1972-74
Threemile Creek near Park City, Ut	10133700	2.68	c,t	1971-74 1983
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
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 div near Farmington, Ut	10142000	10.0	c,t	1978-81
JORDAN RIVER BASIN				
Salt Creek at Nephi, Ut	10146000	95.6	c,t	1971-80 1988

DISCONTINUED SURFACE-WATER-QUALITY STATIONS-Continued

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
JORDAN RIVER BASIN--Continued				
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
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
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 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 So near Murray, Ut	10167115	---	c,s,t	1980-81
Upper Canal at 5800 South (Tolcate Ln) near Murray, Ut	10167122	---	c,t	1980
Upper Canal at Wild Rose Ln near Salt Lake City, Ut	10167125	---	c,s,t	1980-81
Jordan & Salt Lake Canal at Little Cottonwood Creek nr SLC, Ut	10167141	---	c,t	1980-81
Jordan & Salt Lake Canal at Zenith Ave 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 Jordan River near SLC, Ut	10168000	---	c,s,	1979-82
				1987-88
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
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 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 Cudahay 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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
JORDAN RIVER BASIN--Continued				
Lee Creek near Magna, Ut	10172640	---	c,t	1972-82
Kennecott Drain near Magna, Ut	10172650	---	c,s,t	1962-66
				1972-84
North Willow Creek near Grantsville, Ut	10172805	5.38	c,t	1979-92
GREAT SALT LAKE DESERT				
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
East Jordan Canal at Little Cottonwood Creek near Sandy, Ut	10167105	---	c	1980
East Jordan Canal at pumphouse at 6200 So near Murray, Ut	10167115	---	c,s,t	1980-81
Upper Canal at 5800 South (Tolcate Ln) near Murray, Ut	10167122	---	c,t	1980
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
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
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
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
PAROWAN VALLEY				
Little Creek near Paragonah, Ut	10241400	15.8	c,t	1971-80

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record
PAROWAN VALLEY--Continued				
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

Explanation:
a : approximate

INTRODUCTION

Water resources data for the 1994 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 184 gaging stations; stage and contents for 23 lakes and reservoirs; water quality for 17 hydrologic stations, and 165 wells; and water levels for 48 observation wells. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System 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 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-94-1." 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. Beginning with the 1990 water year, all water- data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc.

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) 975-3350. A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

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 Geological Survey are:

Department of Natural Resources, Ted Stewart, Executive Director
Division of Water Rights, R. L. Morgan, State Engineer
Division of Water Resources, D. L. Anderson, Director
Utah Geological and Mineral Survey, M. L. Allison, State Geologist
Division of Wildlife Resources, T. H. Provan, President
Bear River Commission, Charles J. Heringer, Chairman
Salt Lake County Flood Control, James Bradley, Chairman
National Park Service, Dan B. Kimball, Acting Chief
Weber Basin Water Conservancy District, Wayne B. Gibson
Tooele City, Gerald Webster
Ogden River Water Users, James Randall
Weber River Water Users, D. Earl Harris
Central Utah Water Conservancy District, Don Christiansen

Assistance in the form of funds was given by the Bureau of Reclamation, U.S. Department of the Interior, in collecting records for 6 gaging stations and by the Bureau of Land Management, U.S. Department of the Interior, for 4 gaging stations. Records for 10 gaging stations in Idaho in the Bear River basin and 8 in Utah were collected by the Utah Power and Light Co. 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.
Wyoming District.--Bear River at Evanston, WY
Blacks Fork near Millburne, WY
Blacks Fork near Robertson,Wy
East Fork of Smiths Fork, near Robertson, WY
Green River near Green River, WY

Records for all stream-gaging stations operated by the 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

Hydrologic conditions in Utah can vary greatly across the state because of topography, geology and changing seasonal atmospheric conditions. Annual precipitation ranges from about 5 inches on the Great Salt Lake Desert to about 60 inches on the highest mountains (Butler and others, 1972). Pacific frontal storms generally occur during winter and early spring and are responsible for the mountain snowpack. Snowpack usually increases with elevation, and storm accumulations greater than 12 inches of snow common at elevations above 8,000 feet above sea level. Thunderstorms are most common during summer months and can vary greatly in areal extent and intensity. Flooding in Utah can occur as a result of snowmelt or thunderstorms.

Precipitation in Utah during the 1994 water year was less than normal (1961-90) at 8 of 11 selected precipitation-recording stations operated by the National Oceanic and Atmospheric Administration (National Oceanic and Atmospheric Administration, 1993 and 1994) in Utah (fig. 1). Of the 11 sites, Zion National Park recorded the greatest precipitation for the water year with 14.45 inches, or 96 percent of normal, and Bluff recorded the least with 5.09 inches, or 62 percent of normal (table 1). October was the wettest month, with all 11 sites recording greater-than-normal precipitation and total departure of +8.10 inches above normal. July was the driest month, with all 11 sites recording less-than-normal precipitation and a total departure of -6.95 inches below normal. A new state record for snowfall in a 24-hour period was set at Alta, Utah, located about 25 miles southeast of Salt Lake City at an elevation of 8,700 feet above sea level, on January 5-6. During this period, 55.5 inches of snowfall (with a water equivalent of 3.20 inches) was recorded, which was 10.5 inches greater than the previous record of 45.0 inches set in November of 1992 at the same site.

The mean of the average monthly temperatures for June, July, and August at Salt Lake City was 78.6 degrees Fahrenheit, the hottest ever recorded, surpassing the previous record of 77.7 degrees Fahrenheit set during the summer of 1988 (W.J. Alder, National Weather Service, written commun., 1994). High temperatures resulted in decreased streamflow and increased demand on groundwater and reservoir contents.

Table 1. Precipitation and departure from normal precipitation at selected sites for water year 1994

[In inches; upper number indicates precipitation; lower number (in parentheses) indicates precipitation departure from 1961-90 normal precipitation; T, trace; e, estimated from partial record]

Site	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug*	Sept*	Total Departure
Black Rock	1.53	1.06	0.42	0.16	0.58	0.14	e1.55	0.87	0.00	0.41	1.88	1.70	10.30
	(+0.75)	(+0.29)	(-0.17)	(-0.34)	(+0.10)	(-0.98)	(+0.57)	(+0.09)	(-0.54)	(-0.45)	(+1.05)	(+0.84)	(+1.21)
Bluff	1.09	0.62	0.04	0.04	0.46	0.11	1.31	0.52	0.00	0.11	0.36	0.43	5.09
	(+0.03)	(-0.15)	(-0.71)	(-0.67)	(-0.21)	(-0.56)	(+0.83)	(+0.11)	(-0.23)	(-0.81)	(-0.47)	(-0.30)	(-3.14)
Callao	1.16	0.82	0.08	0.34	0.30	0.99	0.55	0.76	0.01	0.14	0.88	0.29	6.32
	(+0.50)	(+0.48)	(-0.20)	(+0.05)	(-0.03)	(+0.58)	(+0.08)	(-0.05)	(-0.72)	(-0.39)	(+0.22)	(-0.31)	(+0.21)
Cedar City	1.52	0.80	0.37	0.13	1.27	1.21	1.00	0.56	0.10	0.04	0.69	1.15	8.84
	(+0.57)	(-0.20)	(-0.33)	(-0.56)	(+0.38)	(-0.15)	(-0.10)	(-0.28)	(-0.33)	(-1.05)	(-0.78)	(+0.17)	(-2.66)
Green River	2.16	0.48	0.15	0.19	0.36	0.01	1.31	0.16	0.03	0.06	0.95	1.28	7.14
	(+1.27)	(+0.03)	(-0.26)	(-0.21)	(+0.04)	(-0.58)	(+0.81)	(-0.47)	(-0.37)	(-0.51)	(+0.20)	(+0.49)	(+0.44)
Hanksville	1.20	0.12	0.06	0.21	0.20	T	1.08	0.07	T	0.14	0.88	1.35	5.31
	(+0.52)	(-0.29)	(-0.25)	(-0.17)	(-0.05)	(-0.51)	(+0.66)	(-0.42)	(-0.30)	(-0.40)	(+0.15)	(+0.61)	(-0.45)
Logan	2.62	0.50	0.91	0.73	2.06	3.06	1.75	0.57	0.15	0.01	0.20	0.83	13.39
	(+0.75)	(-1.23)	(-0.81)	(-0.67)	(+0.41)	(+1.04)	(-0.40)	(-1.47)	(-1.42)	(-0.77)	(-0.77)	(-0.79)	(-6.13)
Nephi	1.65	0.91	1.04	0.83	2.79	0.45	2.24	0.96	0.01	0.26	1.47	1.19	13.80
	(+0.39)	(-0.48)	(-0.29)	(-0.36)	(+1.60)	(-1.26)	(+0.73)	(-0.42)	(-0.84)	(-0.58)	(+0.46)	(+0.01)	(-1.04)
Salt Lake City	2.77	0.54	0.88	0.62	1.53	1.28	2.94	1.29	T	0.06	0.61	0.32	12.84
	(+1.33)	(-0.75)	(-0.52)	(-0.49)	(+0.30)	(-0.63)	(+0.82)	(-0.51)	(-0.93)	(-0.75)	(-0.25)	(-0.96)	(-3.34)
Vernal	2.55	0.40	T	0.01	0.94	0.27	0.46	0.77	0.21	0.03	0.71	0.80	7.15
	(+1.49)	(-0.20)	(-0.63)	(-0.41)	(+0.53)	(-0.38)	(-0.35)	(-0.11)	(-0.58)	(-0.47)	(+0.13)	(-0.07)	(-1.05)
Zion National Park	1.42	2.23	0.99	0.25	1.80	1.59	2.80	0.76	0.50	0.48	0.86	0.77	14.45
	(+0.50)	(+0.77)	(-0.29)	(-1.34)	(+0.20)	(-0.46)	(+1.65)	(-0.08)	(+0.02)	(-0.77)	(-0.93)	(-0.23)	(-0.96)
Total Departure	+8.10	-1.73	-4.46	-5.17	+3.27	-3.89	+5.30	-3.61	-6.24	-6.95	-0.99	-0.54	

* Data provided by Utah State Climatologist's Office, Utah State University.

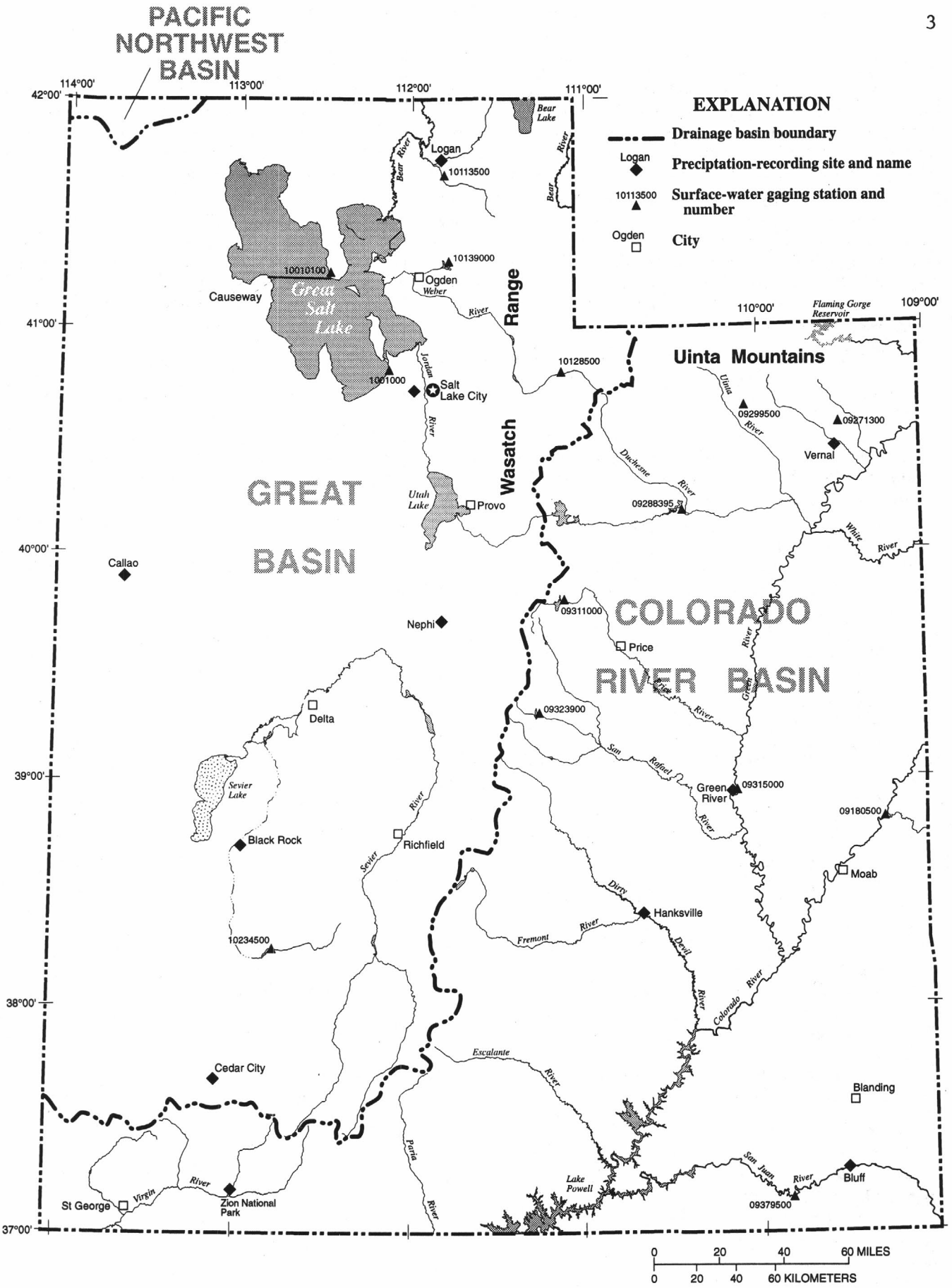

Figure 1 Precipitation-recording sites and surface-water gaging stations.

Mean annual discharge at seven long-term, representative gaging stations (fig. 1) was less than the median annual (1944-93) discharge at all seven stations, averaging 74 percent of the median discharge. The annual mean discharge ranged from a minimum of 64 percent of normal at Green River at Green River, Utah (09315000) to a maximum of 86 percent of normal at San Juan River near Bluff, Utah (09379500). Mean monthly discharges for six of the seven stations were near or slightly above normal for October through April, then generally near or less than normal for May through September. At Blacksmith Fork above Utah Power and Light Company's dam near Hyrum, Utah (10113500) the mean monthly discharge was less than normal for the entire water year.

On September 30, 1994, the combined contents of 15 selected reservoirs in Utah averaged 56 percent of the long-term (1961-90) average-usable-contents*. The largest percentage of capacity was at Pine View Reservoir near Ogden, Utah (10139000), with 107 percent, and the smallest was at Steinaker Reservoir near Vernal, Utah (09271300), which was drawn down to 2 percent of capacity for dam rehabilitation. Storage in Bear Lake, located in northern Utah, peaked at about 597,000 acre-feet on May 13-23, which is about 40,000 acre-feet more than the peak for the 1993 water year (557,000 acre-feet) and 58 percent of the long-term average contents (1,027,400 acre-feet). Minimum storage in Bear Lake was 268,000 acre-feet on September 29 and 30, 1994, which is about 64,000 acre-feet more than the minimum for the 1993 water year (204,000 acre-feet).

The south part of Great Salt Lake (10010000) reached a maximum daily mean elevation for the 1994 water year of 4201.4 feet above sea level on May 5, 6, 9, and 12, (fig. 3) which was 0.3 foot higher than the peak elevation for the 1993 water year (4202.1 feet). Fluctuations in the level of Great Salt Lake occur because of changes in the rates of freshwater inflow and evaporation outflow. 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 December. The minimum elevation for the 1994 water year was 4198.7 feet above sea level on September 23-30, 1994. The elevation of the north part of Great Salt Lake (10010100) ranged from a minimum of 4196.2 feet above sea level on October 1-6, 1993 to a maximum of 4197.8 feet above sea level on several days in April and May, 1994. Salinity of the south part averaged 14.6 percent (six observations) while the north part averaged 27.4 percent (three observations).

Seven wells (fig. 5) were selected to show trends in ground-water levels for water years 1985-94. The wells are in Curlew Valley, Pahvant Valley, Beryl-Enterprise area, Salt Lake Valley and the Vernal and Blanding areas. For the 1994 water year, water-level hydrographs (fig. 5) show rises in Curlew and Salt Lake Valleys and the Blanding area, a slight decline in Pahvant Valley, and generally no change in Beryl-Enterprise and Vernal areas. The rises are likely a result of increased recharge from above normal precipitation during the summer and fall of 1993, and while an overall decline was recorded at the well in Pahvant valley, the rate of decline for the 1994 water year is significantly less than that shown for water years 1985-91. A new record minimum water level of 190.22 feet below land surface was recorded at well (C-36-26)29daa-1, in the Beryl-Enterprise area. In Salt Lake Valley, the water level in well (D-3-1)2ccc-1 declined about 27 feet during April to August because of increased withdrawals for public supply. New record minimum water levels were recorded in 6 of the 25 wells equipped with continuous recording devices Statewide (fig. 12).

Long-term water-quality data are collected at eight National Stream-Quality Accounting Network (NASQAN) and Benchmark stations in Utah (fig. 6), which is two less than for the 1993 water year. Water-quality measurements at Bear River at Border, Wyoming (10039500) and Weber River near Plain City, Utah, were discontinued. In addition to the NASQAN and Benchmark sites, water-quality samples from 23 selected sites in the Duchesne River Basin, Spanish Fork drainage, and parts of Utah and Juab Counties were obtained and analyzed for common dissolved constituents, and trace metals (fig. 11).

SALT DISTRIBUTION OF WEST POND

A study to evaluate the quantity and distribution of dissolved salts that were pumped into West Pond from April 1987 to June 1989 from Great Salt Lake was done by the U.S. Geological Survey (Wold and Waddell, 1994) in cooperation with the Utah Geological Survey and the Utah Department of Natural Resources, Division of Water Resources. The salt load and distribution of brine in West Pond is a concern of the Utah State legislature, officials of salt companies in the area, and the general public, who are interested in the quantity of salt that was deposited in West Pond from Great Salt Lake and in the feasibility of reusing the deposited salt.

Prior to 1983, the level of Great Salt Lake was at an elevation of about 4,200 feet above sea level. In 1983, the level of Great Salt Lake began a rapid rise, and by 1986 had reached its recent historic high of 4,211.85 feet above sea level, causing flooding around the lake. The removal of brine from Great Salt Lake was part of an effort to lower the level of Great Salt Lake when the water level was at a high in 1986. Because of the high level of Great Salt Lake, the West Pond pumping project was designed, and a monitoring program was established to evaluate the movement and storage of brine from Great Salt Lake to West Pond. The pumping project was designed to remove water from Great Salt Lake and store it in West Pond where additional storage area was available, and where additional surface area would provide for a net increase in evaporation (figure 7).

FLOW INTO WEST POND

Inflow to West Pond as a result of pumpage from Great Salt Lake began April 10, 1987, and ended June 30, 1989. The quantity of salt dissolved in Great Salt Lake prior to the pumping period was estimated to be about 4.9 billion tons. The quantity of salt pumped from Great Salt Lake into West Pond during April 10, 1987, to June 11, 1989, was about 695 million tons or about 14.2 percent of the salt contained in the lake. An accounting of tonnages of salt using minimum, average, and maximum estimates is shown in table 2.

STORAGE OF SALT

Salt stored during April 7, 1988, to June 11, 1989, consisted of dissolved salt, a salt crust covering the floor of the south part of the pond, and brine that infiltrated the subsurface areas inundated by West Pond. Of the quantity of salt pumped into West Pond,

approximately 315 million tons (45 percent) was stored as dissolved salt.

Once the brine enters West Pond, the salinity increases as water is evaporated. Salinity is lower to the north where the brine pumped from the north part of Great Salt Lake through the canal enters West Pond, and is higher at the south end and at the weir in the Newfoundland Dike.

Storage of salt in the form of a salt crust composed primarily of halite deposits on the bottom of the southern part of West Pond was measured in June 1989. Core samples of the salt crust were collected at selected sites and were analyzed so that the load of salt could be calculated. The thickness of the salt crust ranged from no salt crust at the sample sites in the north part of West Pond to 4.7 inches in the southern part. The sum of the salt loads for each zone measured indicated a total salt load of 71 million tons of salt stored as crust in West Pond on June 11, 1989.

Waddell and others (1992) indicated that the unsaturated sediments beneath the bottom of West Pond probably became saturated during the filling of West Pond. The quantity of salt stored in the subsurface sediments depends on the depth to the water table before pumping began, the inundated area, the specific yield of the sediments, and the salinity of the brine infiltrating the sediments. The salt load that infiltrated the subsurface areas inundated by storage in West Pond was 10 million tons (1.4 percent); thus, 396 million tons (57 percent) of salt pumped from Great Salt Lake was stored in West Pond.

WITHDRAWALS OF SALT

Salt was withdrawn from storage in West Pond by the American Magnesium Corporation (AMAX) and by outflow through the Newfoundland weir. On January 21, 1988, AMAX began pumping brine from West Pond into a 4,000-acre solar-evaporation complex. Pumping records supplied to the engineering firm of Eckhoff, Watson, and Preator (EWP) by AMAX indicate about 42,000 acre-feet of brine were pumped from West Pond into the complex during January 21 to April 6, 1988 (Waddell and others, 1992), and 162,000 acre-feet pumped from April 7, 1988, to June 11, 1989. AMAX pumped about 75 million tons of salt into their facility during April 7, 1988, to June 11, 1989. The accuracy of the pumpage estimates was not evaluated; however, if the pumpage was underestimated or overestimated by 5 percent, then the total tons of salt pumped by AMAX from the pond would range from about 71 million to 79 million tons.

Outflow from West Pond through the Newfoundland weir did not take place on a regular basis. Measurements made by Bingham Engineering (written commun., 1990) show that 183,770 acre-feet of brine passed through the Newfoundland weir from April 7, 1988, to June 11, 1989. The load of dissolved salts passing through the Newfoundland weir each month was computed from the product of the monthly volume passing through the weir in acre-feet and the average concentration of dissolved solids at the weir for a given month. Approximately 123 million tons of salt passed through the Newfoundland weir during April 10, 1987, to June 11, 1989. If the outflow was underestimated or overestimated by 10 percent, then the total tons of salt passing through the Newfoundland weir would range from about 111 million to 135 million tons. Withdrawal by AMAX and discharge from West Pond through Newfoundland weir comprised 211 million tons (30 percent) of salt pumped.

RETURN FLOW TO GREAT SALT LAKE

Waddell and others (1992) indicated that part of the brine outflow from West Pond returned to Great Salt Lake by gravity flow over land. Part of this brine formed a small, shallow lake with an area of about 60,000 acres east of the Newfoundland Mountains, and the rest of the brine was stored beneath the small lake. During April 10, 1987, to June 11, 1989, 0.5 percent of the salt pumped out of Great Salt Lake and into West Pond, or 3.6 million tons of brine, was stored beneath the small, shallow lake, and 13.5, percent or an estimated 94 million tons of brine, flowed back into Great Salt Lake.

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*Long-term averages provided by National Oceanic and Atmospheric Administration. Averages for East Canyon (196-90), Joes Valley (1966-90), Starvation (1970-90), and Steinaker (1975-90), Reservoirs are calculated on the basis of the water years shown in parentheses.

Table 2. Salt budget for West Pond, April 10, 1987, to June 11, 1989
[n/a, not available; --, not calculated]

	Estimates of salt load, in millions of tons								
	Salt load [1]April 10, 1987, to April 6, 1988 (period 1)			Salt load April 7, 1988, to June 11, 1989 (period 2)			Salt load April 10, 1987, to June 11, 1989 (period 1 plus period 2)		
	Minimum	Average	Maximum	Minimum	Average	Maximum	Minimum	Average	Maximum
Inflow									
Pumped from[2] Great Salt Lake	317	334	351	343	361	379	660	695	730
Storage									
Dissolved[3]	189	215	240	89	100	112	278	315	352
Salt crust	0	0	n/a	71	n/a	n/a	71	n/a	n/a
Subsurface[4]	4.5	7.2	9.9	1.7	2.8	3.8	6.2	10.0	13.7
Outflow									
AMAX withdrawal[2]	12.2	12.8	13.4	71	75	79	84	88	92
Newfoundland weir[5]	36.5	40.6	44.7	74	82	90	111	123	135
Unaccounted salt									
Inflow - (storage+outflow)-- (As percentage of inflow)		58 (17 percent)	--	n/a	30 (8 percent)	n/a	n/a	88 (13 percent)	n/a

[1]Waddell and others, 1992, table 4.

[2]Minimum and maximum values were computed assuming ± 5 percent error in measurements of pumping.

[3]The maximum value was computed with Eckhoff, Watson, and Preator elevation-volume curves, and the minimum value was computed with U.S. Geological Survey elevation-volume curves.

[4]Minimum and maximum values were based on an estimated range of thicknesses for the unsaturated zone and a range of specific yield, at West Pond and east of the Newfoundland Mountains.

[5]Minimum and maximum values were computed using ± 10 percent error (B. S. Bingham, Bingham Engineering, oral commun., 1990).

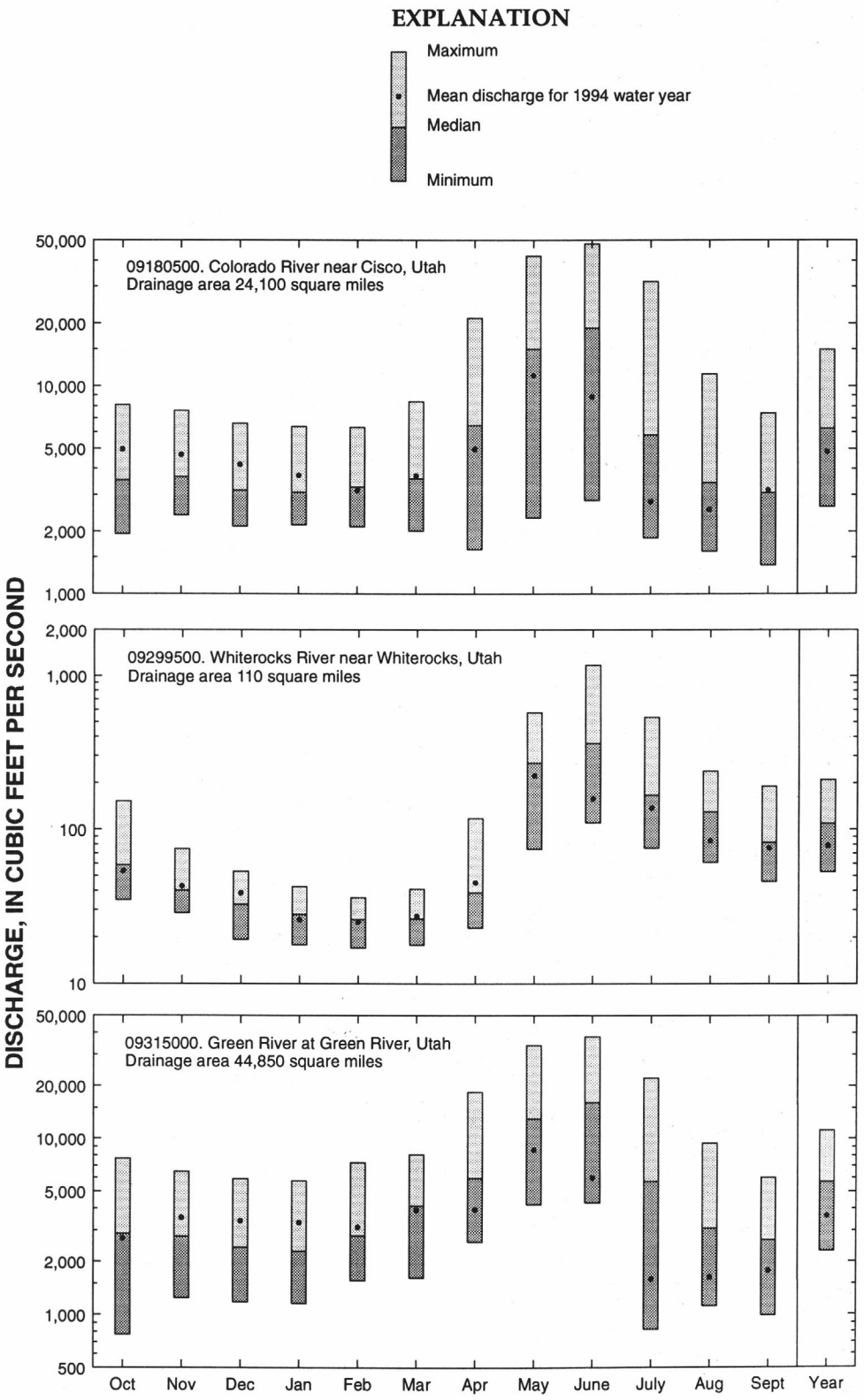


Figure 2. Comparison of monthly and annual mean discharge for water year 1994 with maximum, median, and minimum monthly and annual discharge for water years 1944-93 at seven long-term, representative streamflow gaging stations in Utah.

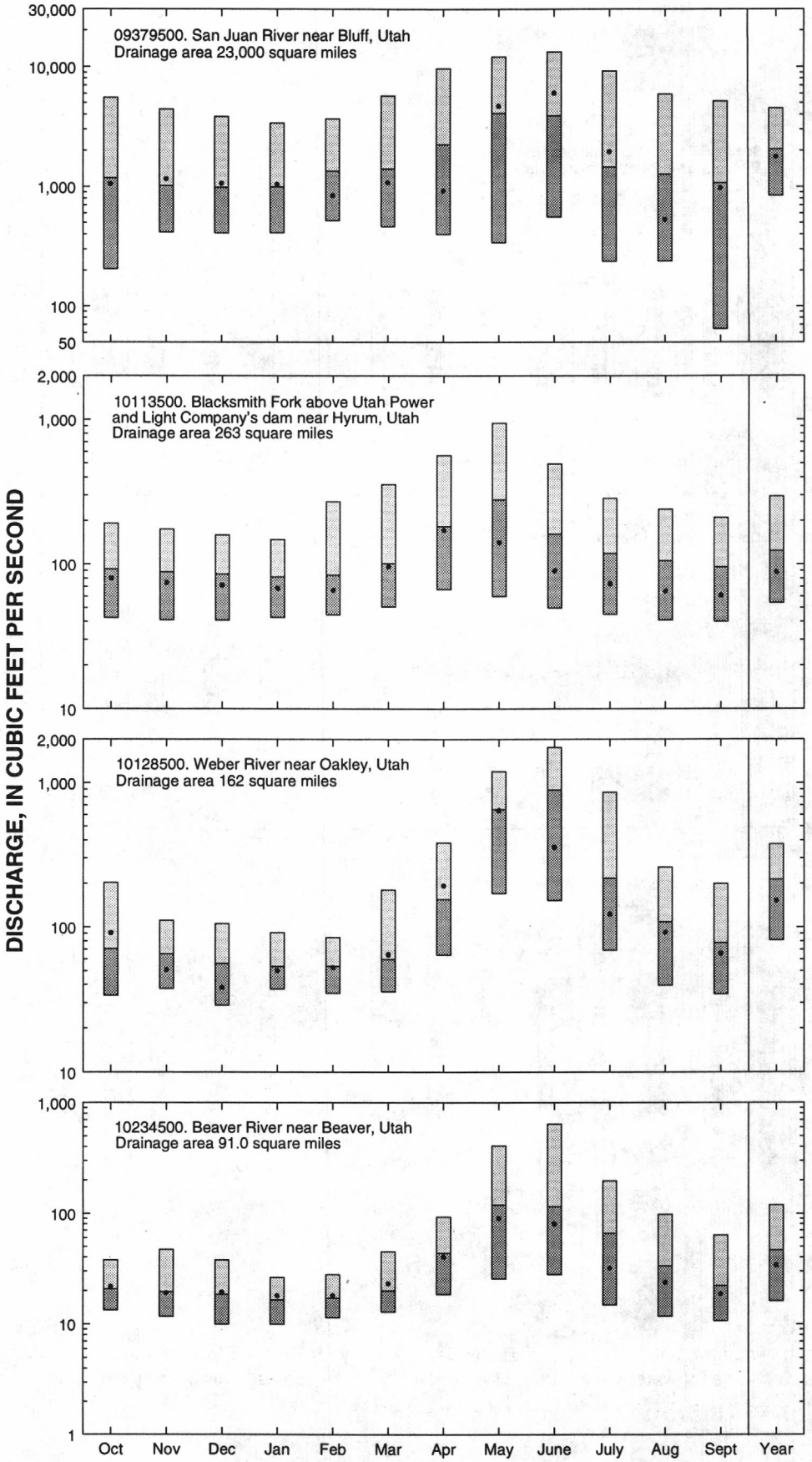


Figure 2. Comparison of monthly and annual mean discharge for water year 1994 with maximum, median, and minimum monthly and annual discharge for water years 1944-93 at seven long-term, representative streamflow gaging stations in Utah--Continued.

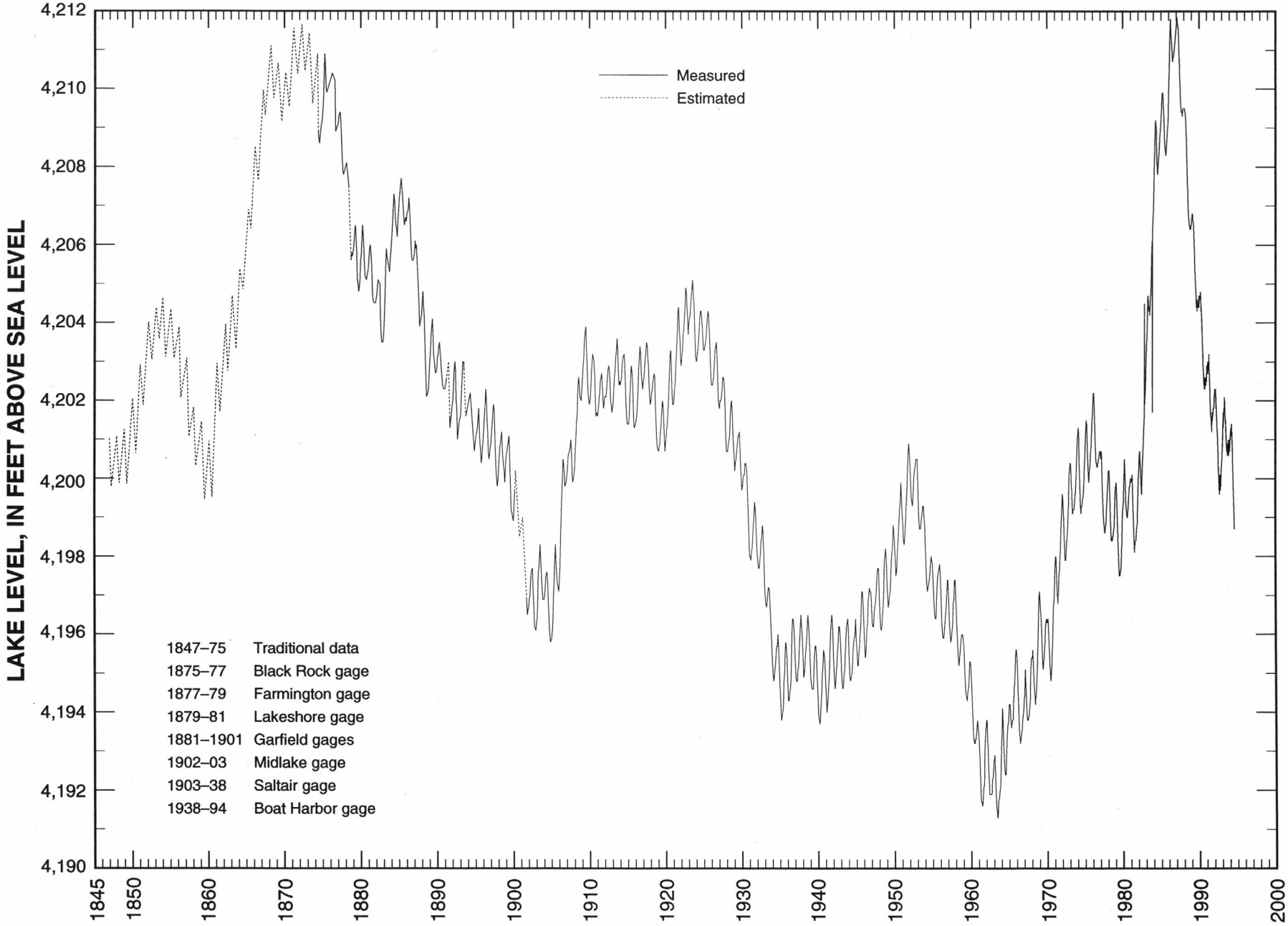


Figure 3. Fluctuations in elevation of Great Salt Lake, 1845-1994.

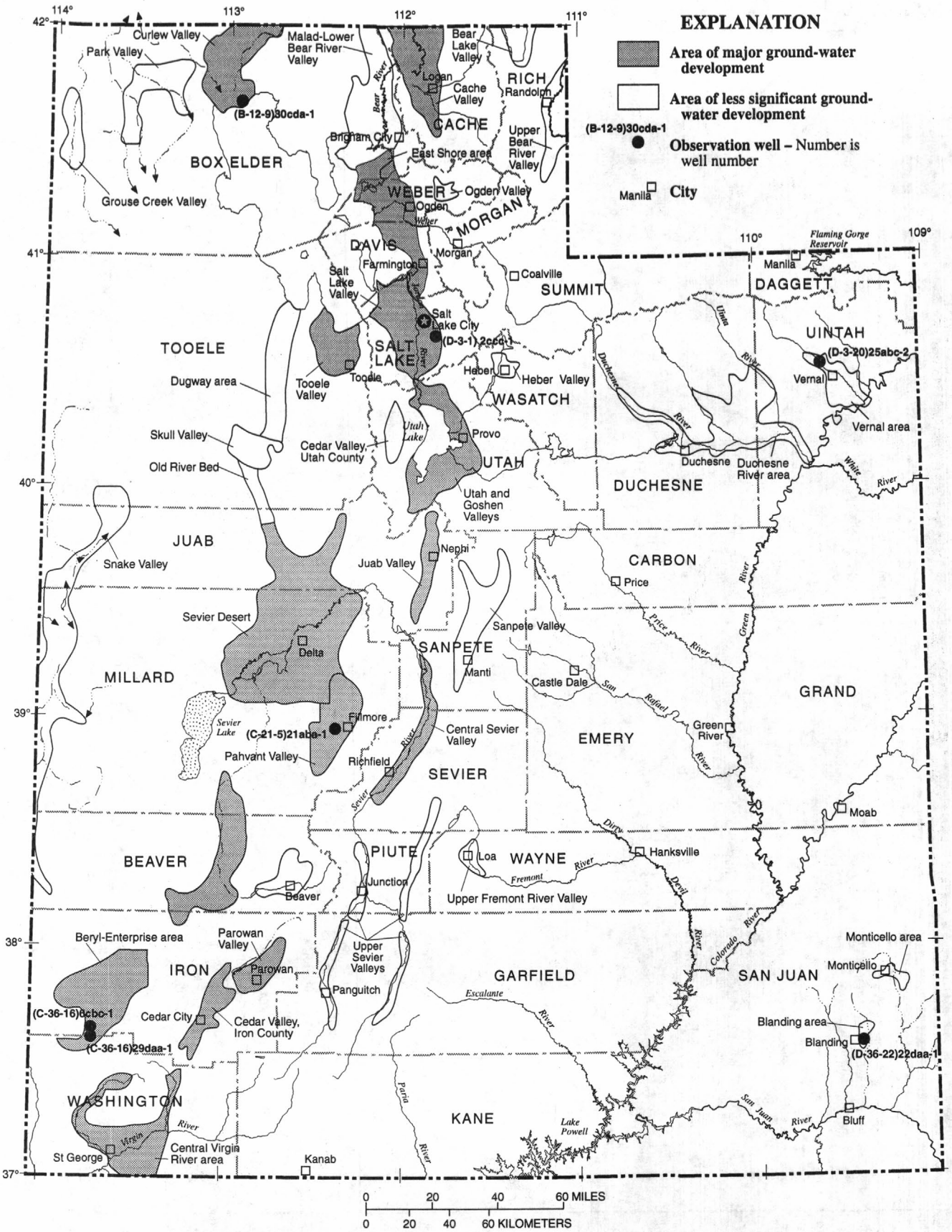


Figure 4. Areas of ground-water development and location of selected observation wells.

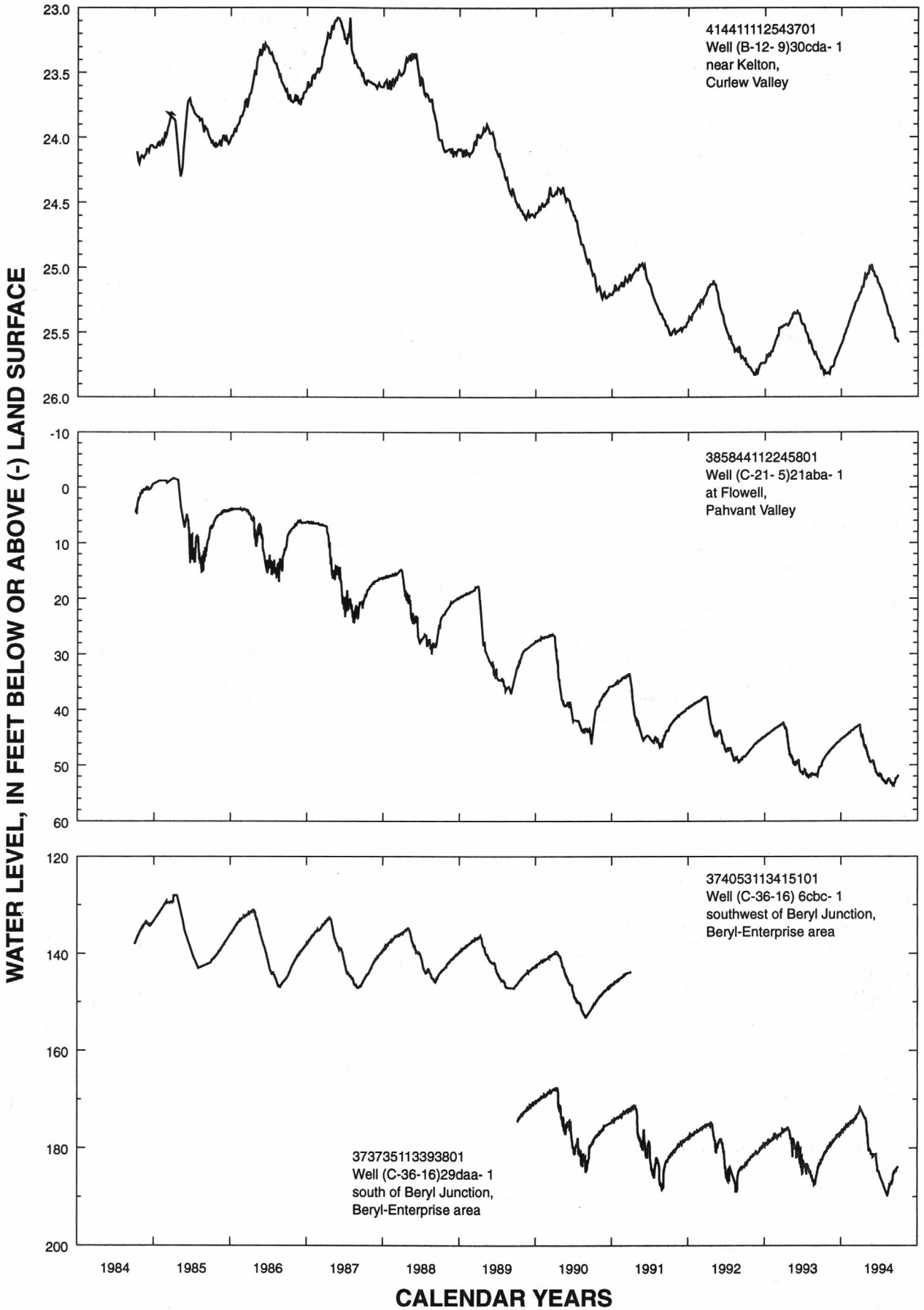


Figure 5. Fluctuations of water levels in selected wells in Utah for water years 1985-94.

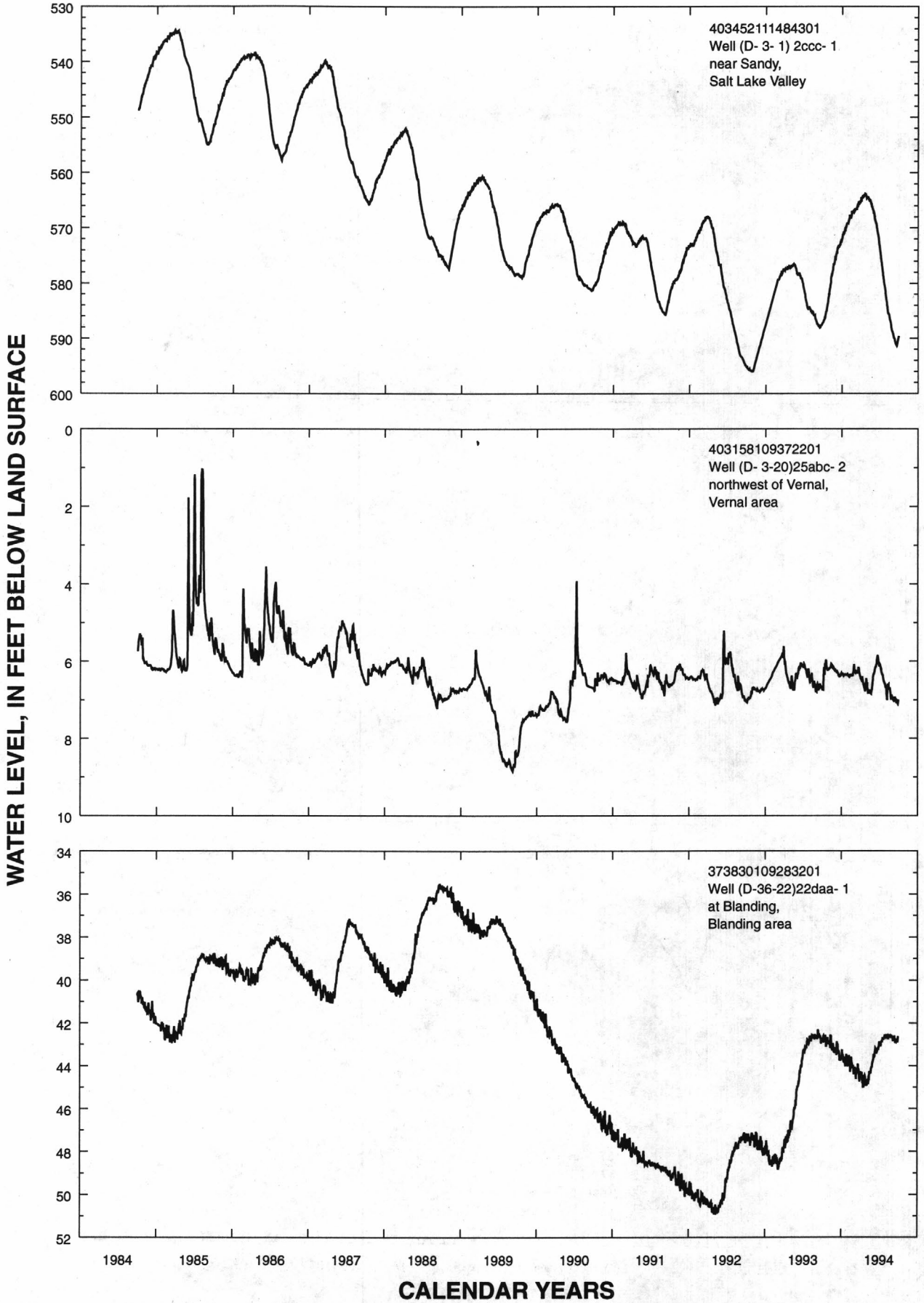
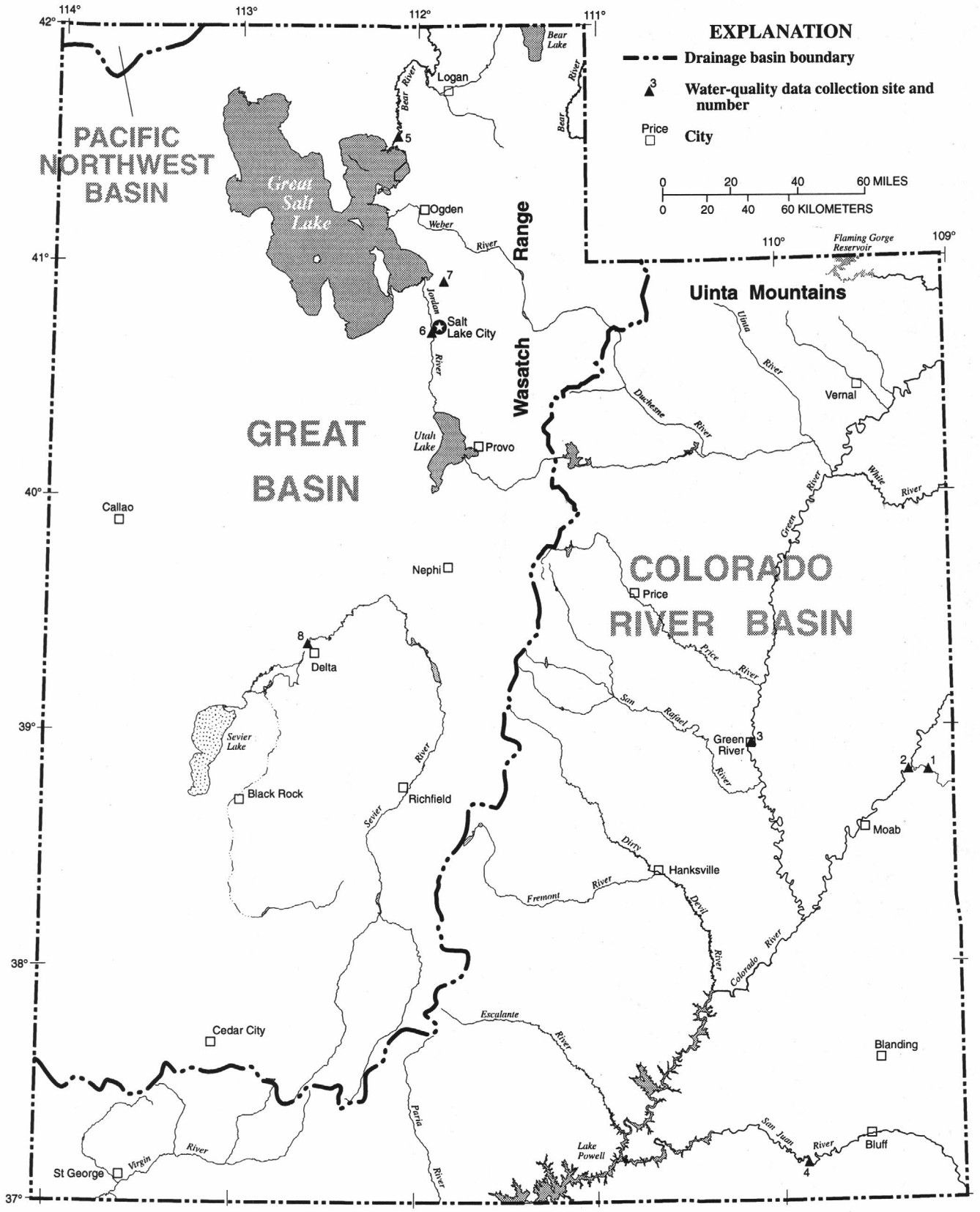


Figure 5. Fluctuations of water levels in selected wells in Utah for water years 1985-94--Continued.



1. Dolores River near Cisco, Utah
2. Colorado River near Cisco, Utah
3. Green River at Green River, Utah
4. San Juan River near Bluff, Utah
5. Bear River near Corinne, Utah
6. Jordan River at Salt Lake City, Utah
7. Red Butte Creek at Fort Douglas near Salt Lake City, Utah
8. Sevier River near Lynndyl, Utah

Figure 6. Location of eight National Stream-Quality Accounting Network (NASQAN) and hydrologic bench-mark gaging stations a which long-term water-quality data have been collected.

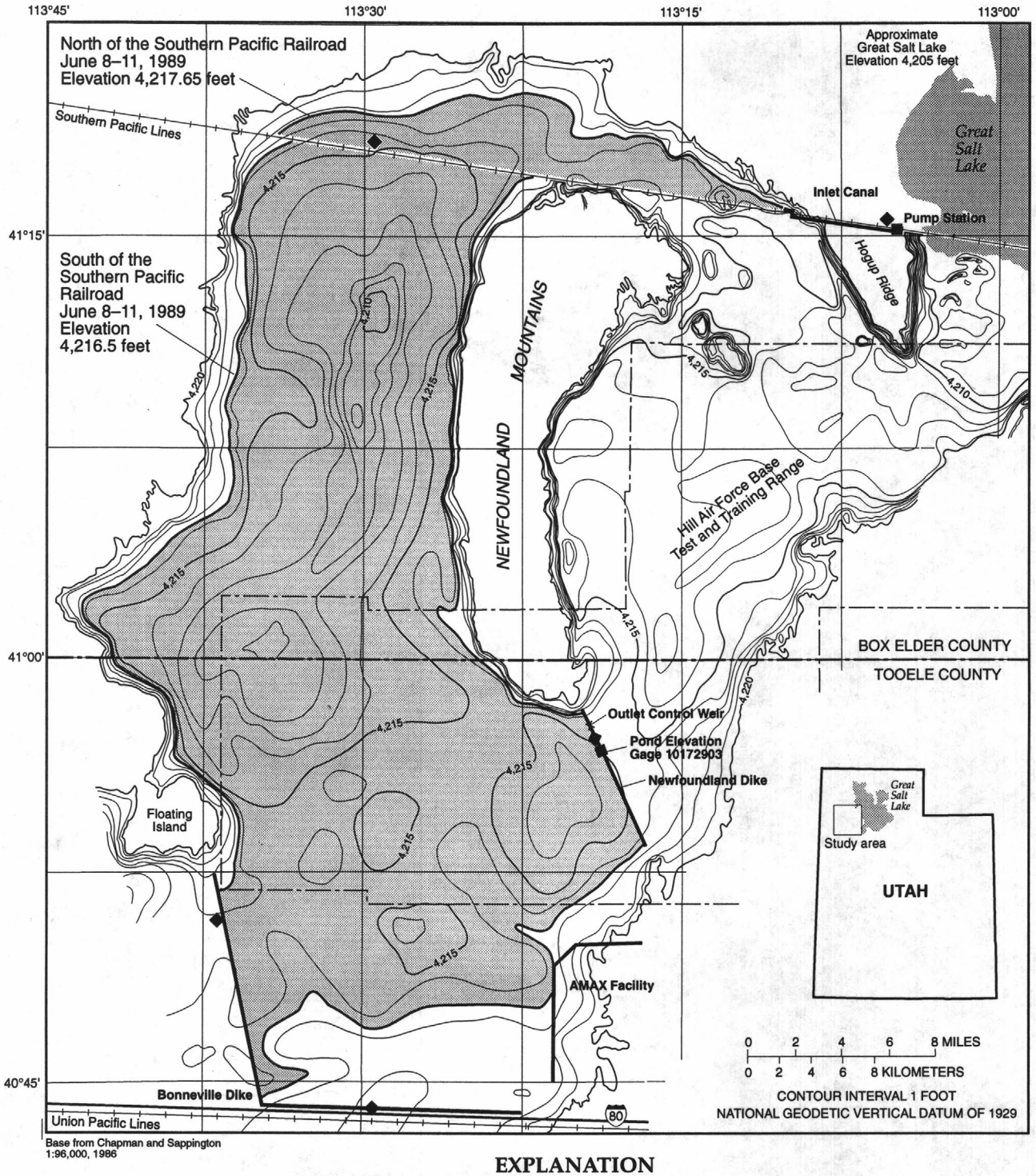


Figure 7. Location of study area and data collection sites.

DEFINITION OF TERMS

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

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

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

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

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

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

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

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

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

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

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

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

Cubic foot per second (Ft3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

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

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

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

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

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

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

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

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

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

Epilimnion is the uppermost region of a stratified lake which is characterized as having water of nearly uniform temperature, and dissolved oxygen concentrations generally near saturation.

Eutrophic is a condition in which the water in the lake, pond, or reservoir is enriched with plant nutrients such as nitrogen and phosphorus which results in large amounts of plant and algal production. As the plants and algae die and sink to the bottom, an organic sediment is created which removes oxygen from the water as it decays.

Eutrophication is the natural process of enrichment and aging of a body of water that may be accelerated by the activities of man. Pertains to water bodies in which primary production of high because of a large supply of available nutrients.

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

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

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents polyvalent cations and is expressed as the equivalent concentration of calcium carbonate ($CaCo_3$).

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

Hypolimnion is the lower region of a stratified lake which is characterized as having water with cooler temperatures, and low to very low concentrations of dissolved oxygen.

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

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

Meso-eutrophic is intermediate stage in lake classification between the oligotrophic and eutrophic stages, in which primary production occurs at a greater rate than in oligotrophic lakes, but at a lesser rate than in eutrophic lakes. This is due to a moderate supply of nutrients.

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

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

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

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

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

Classification	Size (mm)	Method of analysis
Clay	0.00024 - 0.004	Sedimentation
Silt	.004 - .062	Sedimentation
Sand	.062 - 2.0	Sedimentation or sieve
Gravel.	2.0 - 64.0	Sieve

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

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

Picocurie (PC, pace) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (I). A curie is the amount of radioactivity that yields $3.7 \times 10_{10}$ radioactive disincorporation per second. A pedicure yields 2.22 DPN (disintregrations per minute).

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

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

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

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

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

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

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

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

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

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation of almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter a 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

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

Stratification is a natural process in which bodies of standing water become colder near the bottom and warmer near the surface. The two layers are separated by a thinner middle layer characterized by a rapidly changing temperature profile.

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 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.

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

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

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

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

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

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

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

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

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/l of the constituent, times the factor 0.0027, times the number of days.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1994, is called the "1994 water year".

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

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

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

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a 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 indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention 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 090041000, which appears just to the left of the station name, includes a 2-digit part number "03" plus the 6-digit downstream order number "0410100."

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 8.

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 9. 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-16-9) 15daa-2 indicates a well in the northeast quarter of the northeast quarter of the southeast quarter of sec. 15, T.

16 S., R.9 W., and shows that this is the second 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.

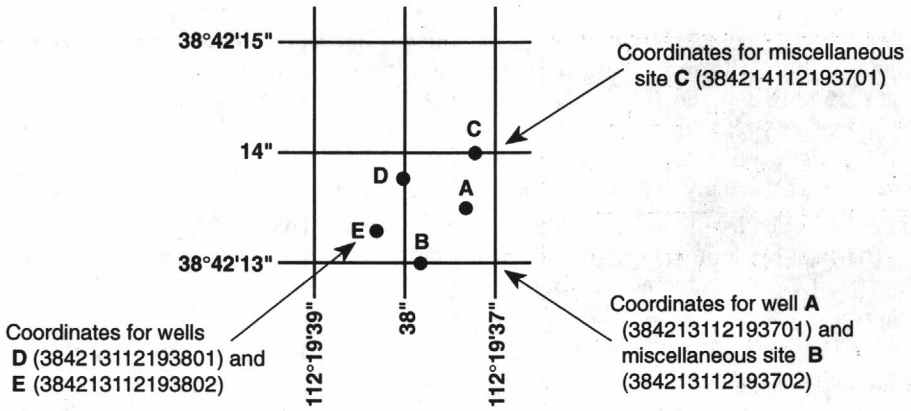


Figure 8. System for numbering wells and miscellaneous sites (Latitude and longitude).

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 Bench-Mark Network is a network of 53 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analysis on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream-Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 284 sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nations rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

The National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of atmospheric deposition, which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

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, diverse, and geographically distributed part of the Nation's ground- and surface-water resources, and to identify, describe, and explain the major natural and human factors that affect these observed conditions and trends.

Assessment activities have begun in about two-thirds of the study units and ultimately will be conducted in 60 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Radiochemical Program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation sta-

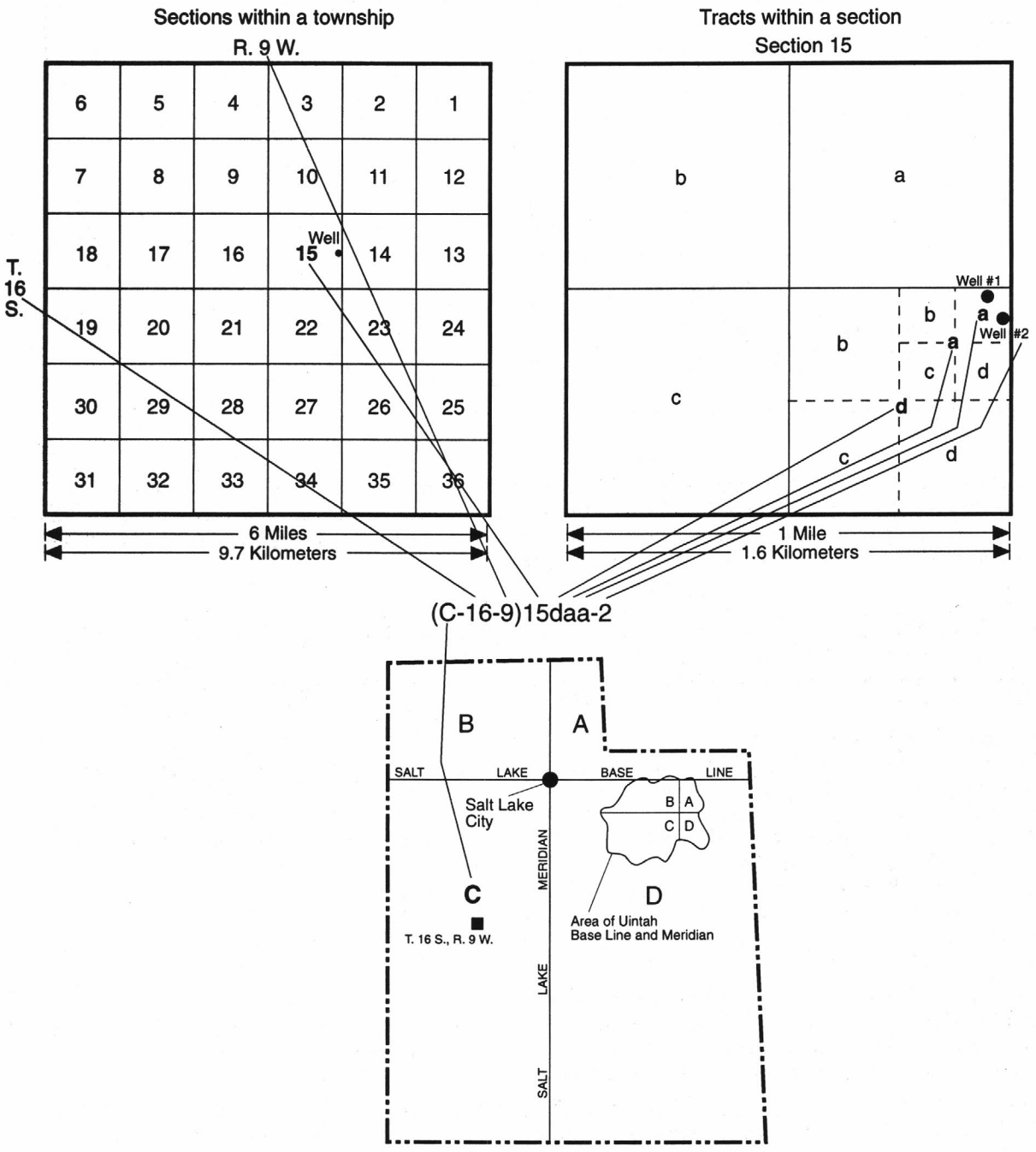


Figure 9. System for numbering wells and miscellaneous sites (township and range).

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

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations (fig. 10) 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 continuos 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 sued applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by a 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 new format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

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

Station manuscript

The manuscript provides, under various heading, 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.

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

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

REMARKS.--All periods of estimated daily discharge 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, thee 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 continuos-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 continuos-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 that "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 (fig. 11). 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 hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record.

REMARK CODES

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

PRINTED OUTPUT	REMARK
E	Estimated.
>	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 acceptable range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.

Dissolved Trace-Element Concentrations

NOTE.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (ug/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved phase concentrations for a number of trace elements are within the range of 10's and 100's of nanograms per liter (ng/L). Data above the ug/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey will begin using new trace-element protocols at some stations in water year 1994. Full implementation of the protocols will take place during the 1995 water year.

Change in National Trends Network procedures

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

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 one 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

Only ground-water level data from selected wells with continuous recorders from a basic network of observation wells are published herein (fig. 12). This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers

Each well is identified by means of (1) at 15-digit number that is based on latitude and longitude and (2) a local number that is produced for local needs (see figures 8 and 9).

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. 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 amy

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 hundreths 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 National WATer Data STOrage and REtrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey as its National Center in Reston, Virginia, and consists of related files and data bases.

* Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.

* Daily Values File - Contains more than 220 million daily values of stream flows, stages reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.

* Peak Flow file - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.

* Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.

* Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's district offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston Virginia 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 51/4 inch floppy disk; and, as noted in the introduction, on CD0ROM discs. Beginning with the 1990 water year, all water0-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-0ROM disc. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District office. (See address on the back of the title page). A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado, 80225.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

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

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

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

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

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

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

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

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

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

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

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

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

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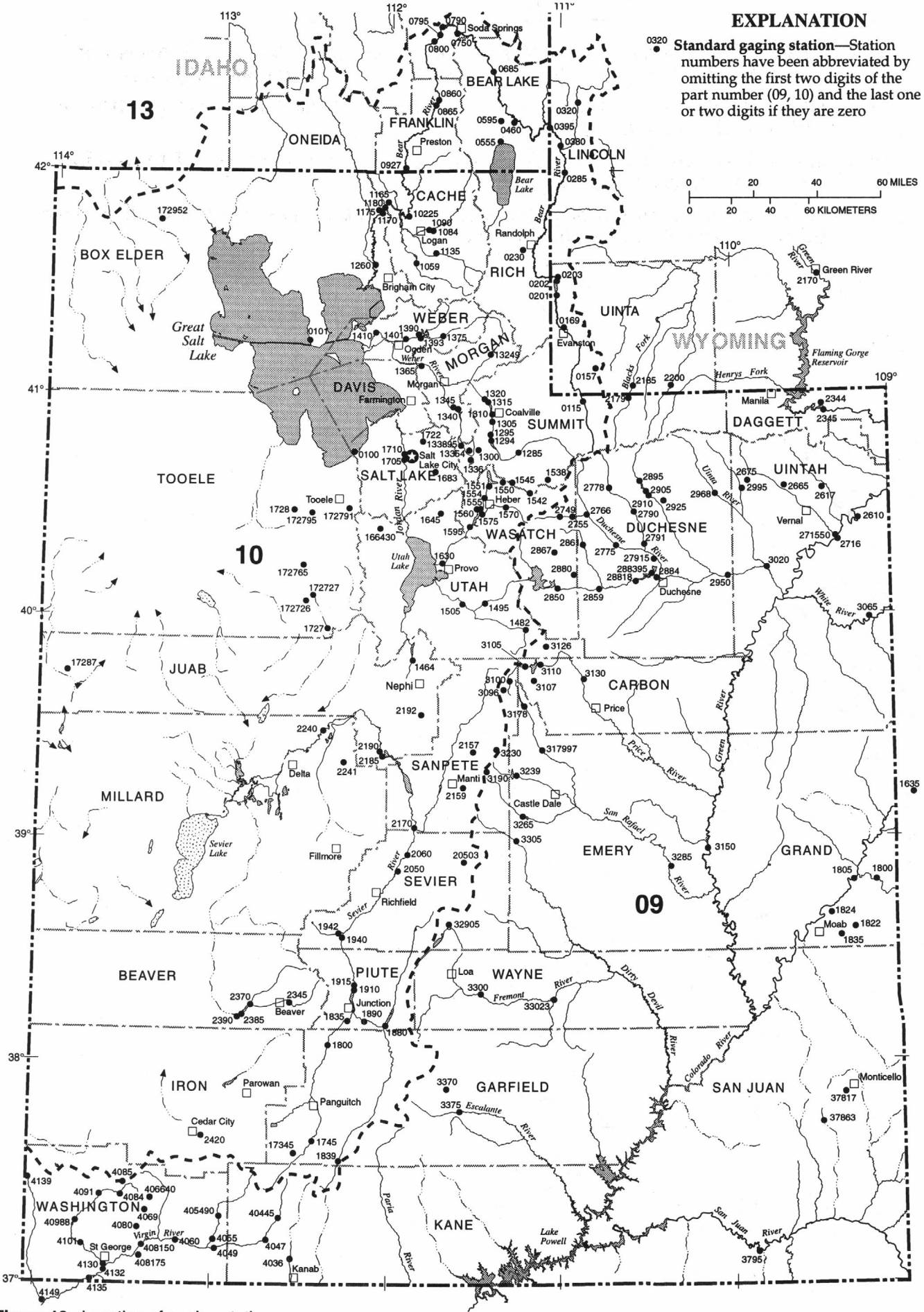

Figure 10. Location of gaging stations.

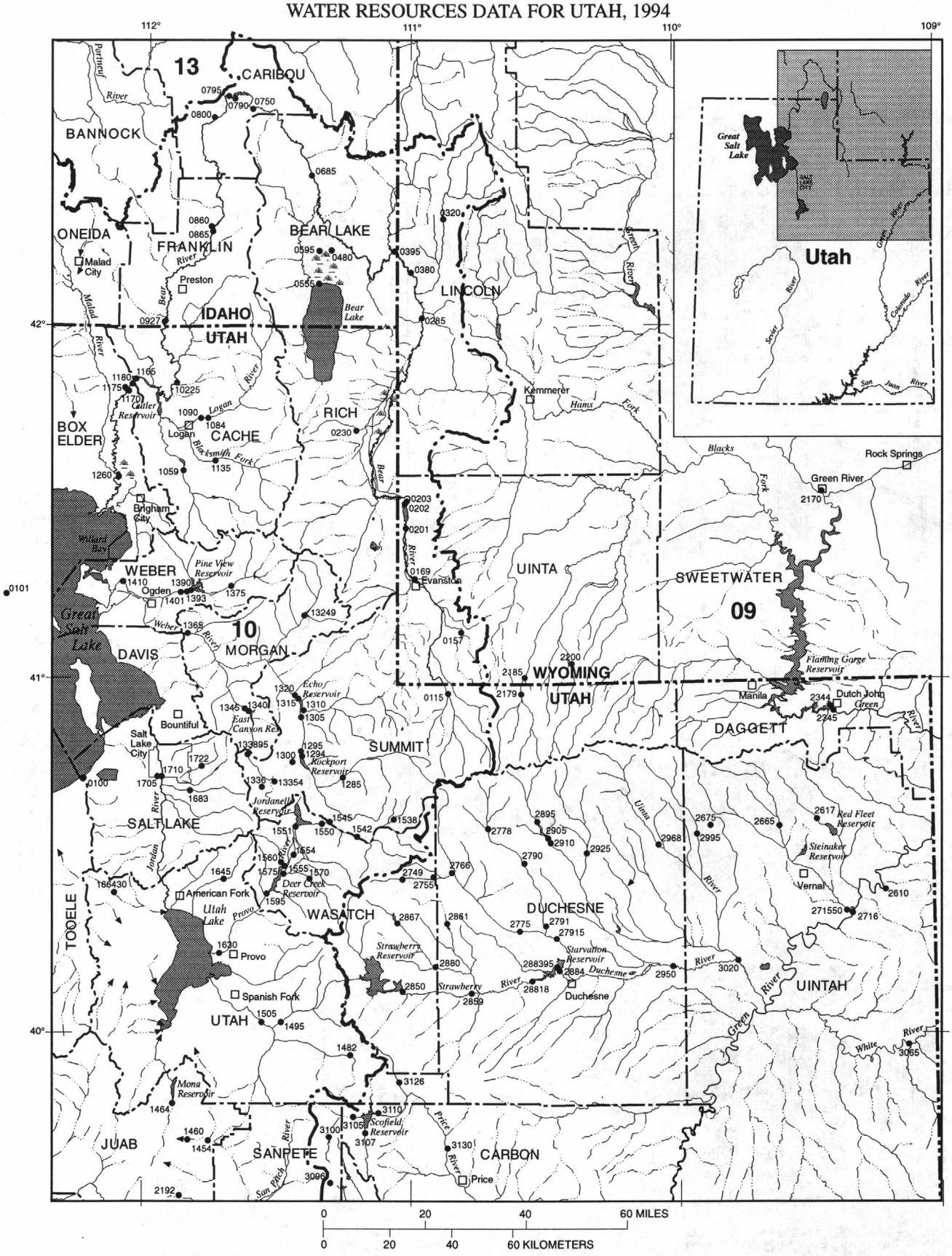

Figure 10. Location of gaging stations in Utah--Continued.

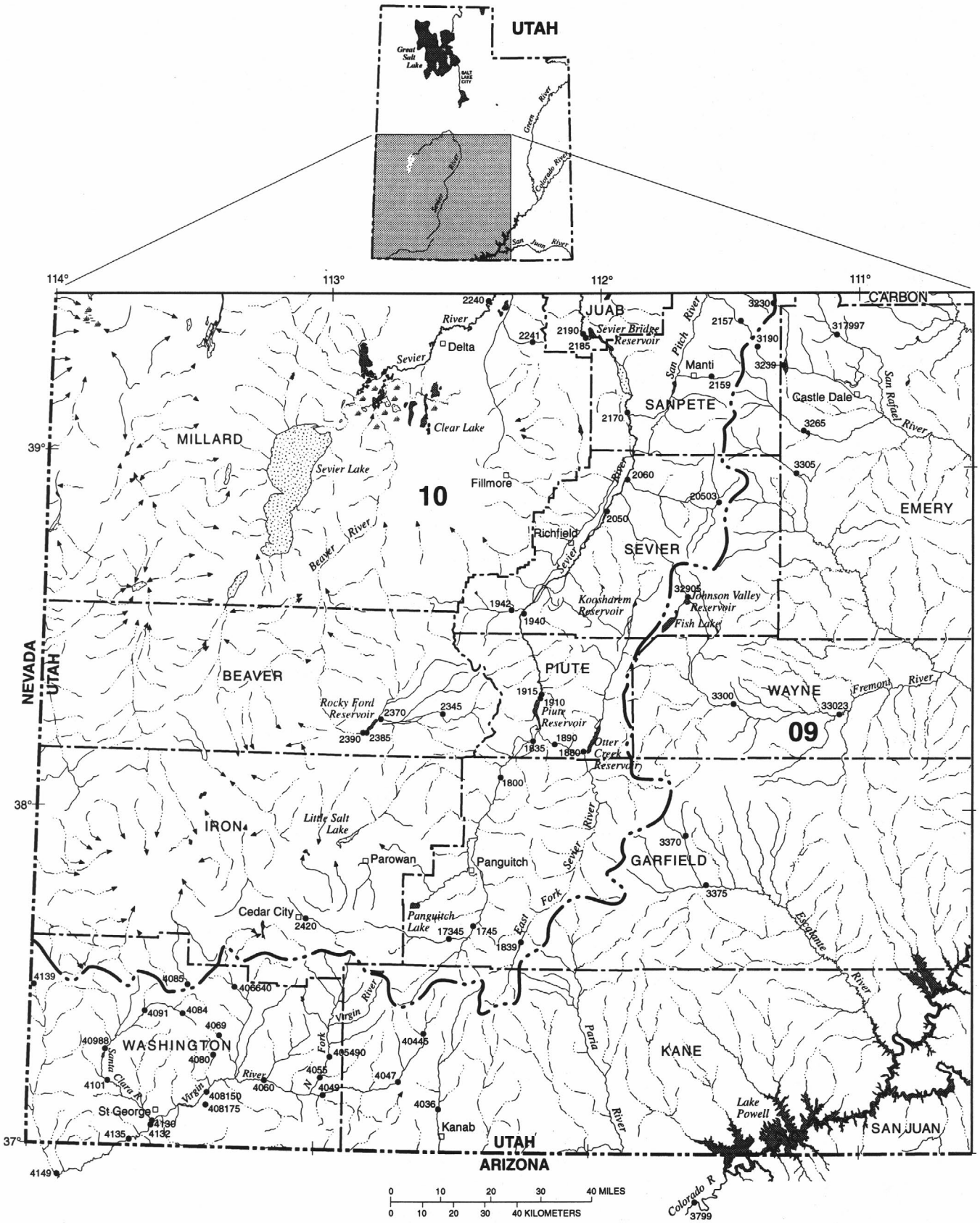

Figure 10. Location of gaging stations in Utah--Continued.

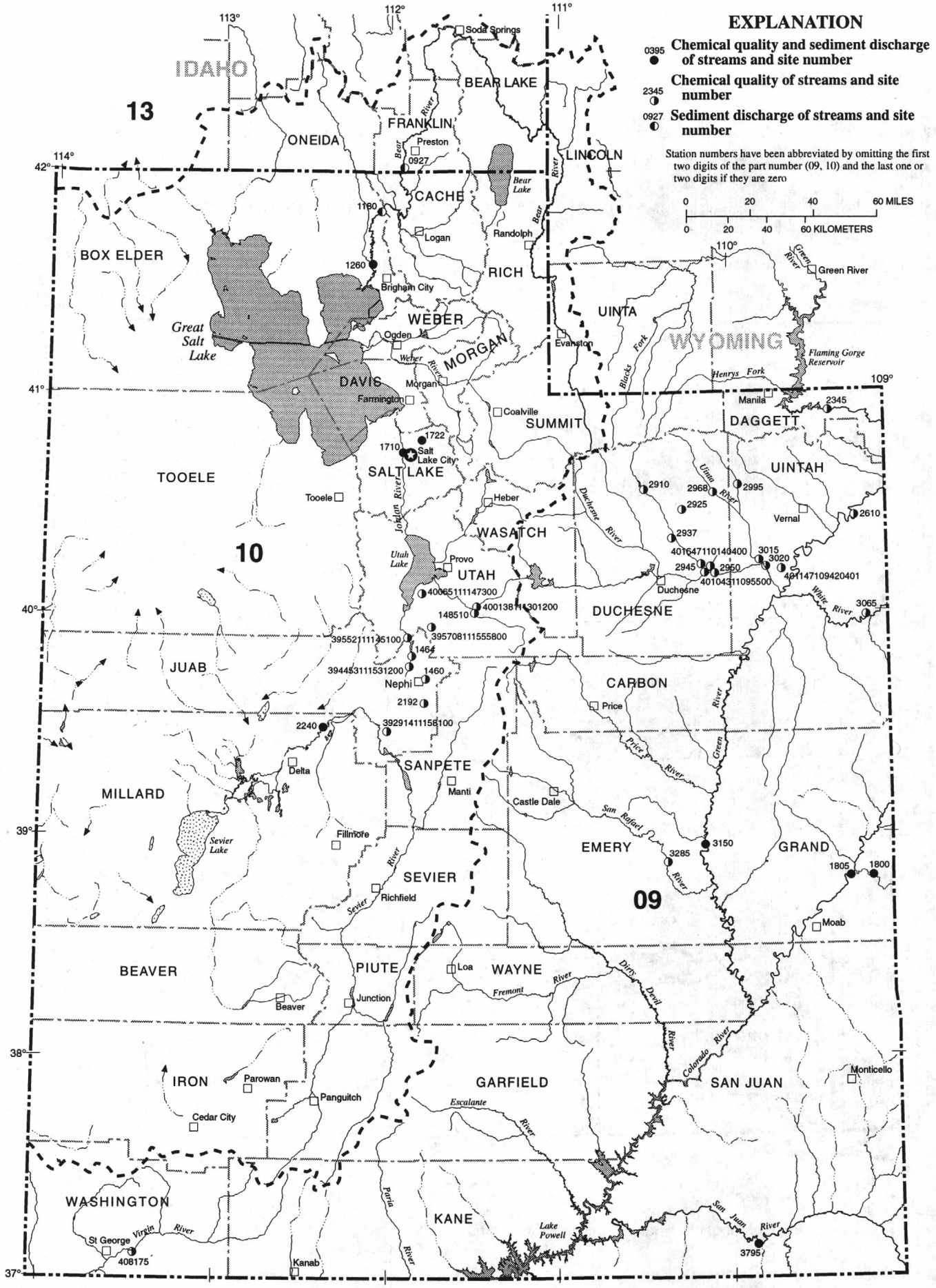

Figure 11. Location of surface-water-quality stations in Utah.

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°07'45", long 109°01'36", in SE¼NW¼ sec.5, T.11 S., R.104 W., Mesa County, Hydrologic Unit 14010005, on right bank 0.7 mi downstream from McDonald Creek, 1.5 mi upstream from Colorado-Utah State line, and 12 mi southwest of Mack.

DRAINAGE AREA.--17,843 mi².

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

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

GAGE.--Water-stage recorder with satellite telemetry. 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.

REMARKS.--Estimated daily discharges: Oct. 27 to Nov. 10, Mar. 7-22. Records good except for estimated daily discharges, which are poor. 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3860	5120	4650	4140	2990	3760	3380	5050	12300	4060	2380	3110
2	3790	5070	4570	4150	2780	3730	3590	4870	13100	3800	2530	3180
3	3660	4990	4570	4240	2870	3550	3740	4730	12700	3690	2430	3340
4	3520	5120	4510	4330	3130	3720	3820	4640	12100	3740	2460	3540
5	3490	5010	4490	4330	2940	3940	3830	4450	11700	3770	2360	3730
6	3520	4950	4440	4330	3170	3870	3760	4880	11200	3560	2210	3650
7	3720	4800	4440	4320	3200	3930	3630	6820	10400	3300	2050	3520
8	4250	4800	4390	4230	3210	3850	3350	8730	9500	3080	2120	3330
9	4980	5150	4380	4150	3360	3700	3500	9340	8720	3110	2310	3230
10	4710	5250	4360	4140	3340	3600	3600	9950	8130	3050	2820	3210
11	4690	5070	4360	4170	3260	3450	3430	9660	7600	3060	3070	3140
12	4730	5210	4440	4170	3240	3200	3130	9640	7450	3020	3000	3170
13	4840	5380	4610	3970	3230	3350	3050	10800	7370	2910	2920	3370
14	4990	5190	4590	4010	3080	3350	2940	11800	7140	2880	2880	3600
15	4950	5050	4260	4010	3020	3300	2830	12000	6730	2840	3010	3920
16	5060	4950	4230	3900	3100	3350	2860	12300	6450	2840	3050	3780
17	5150	4650	4350	3730	3060	3500	3000	12100	6080	2830	2850	3560
18	5000	4230	4440	3380	3220	3650	3410	13000	5790	2660	2660	3450
19	4930	4030	4230	3350	3730	3700	3870	12800	5690	2690	2590	3340
20	4730	4280	4090	3420	3560	3650	4310	12400	5700	2760	2690	3320
21	4630	4450	4160	3380	3380	3800	4980	12800	6130	2700	3090	3240
22	4590	4480	4000	3340	3310	3880	5600	12300	6470	2650	3140	3230
23	4530	4640	3890	3320	3300	3900	6460	12300	7040	2440	3130	3290
24	4640	4590	4070	3360	3220	4000	6960	12500	7550	2380	2940	3280
25	4900	4810	3970	3400	3130	3940	7630	11800	6750	2410	2850	3200
26	5040	4570	3980	3470	3290	3830	7740	11400	6200	2600	2760	3080
27	4990	4230	4060	3510	3610	3580	6940	10900	5660	2450	2750	3090
28	4930	4200	4290	3550	3820	3350	6200	10300	5100	2220	2880	3070
29	4900	4290	4400	3420	---	3170	5730	10700	4690	2030	3230	2970
30	4900	4470	4410	3290	---	3360	5310	11100	4270	2020	3260	3310
31	4990	---	4300	3140	---	3450	---	11200	---	2140	3170	---
TOTAL	141610	143030	133930	117650	90550	112410	132580	307260	235710	89690	85590	100250
MEAN	4568	4768	4320	3795	3234	3626	4419	9912	7857	2893	2761	3342
MAX	5150	5380	4650	4330	3820	4000	7740	13000	13100	4060	3260	3920
MIN	3490	4030	3890	3140	2780	3170	2830	4450	4270	2020	2050	2970
AC-FT	280900	283700	265700	233400	179600	223000	263000	609500	467500	177900	169800	198800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1994, BY WATER YEAR (WY)

MEAN	3866	3956	3562	3346	3433	3818	5847	14130	17160	7511	3754	3539
MAX	7672	6925	5993	6129	5996	7486	15600	37960	43830	29590	10190	6767
(WY)	1987	1987	1986	1985	1985	1986	1985	1984	1957	1957	1983	1984
MIN	1916	2363	2048	1871	1815	1984	1631	2283	2688	1662	1350	1361
(WY)	1957	1978	1964	1964	1964	1964	1977	1977	1977	1977	1977	1956

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1951 - 1994	
ANNUAL TOTAL	3231710		1690260			
ANNUAL MEAN	8854		4631		6163	
HIGHEST ANNUAL MEAN					13470	1984
LOWEST ANNUAL MEAN					2559	1977
HIGHEST DAILY MEAN	44000	May 28	13100	Jun 2	68300	May 27 1984
LOWEST DAILY MEAN	2200	Jan 6	2020	Jul 30	960	Sep 7 1956
ANNUAL SEVEN-DAY MINIMUM	2220	Jan 5	2250	Jul 28	1110	Sep 2 1956
INSTANTANEOUS PEAK FLOW			13600	May 19	69800	May 27 1984
INSTANTANEOUS PEAK STAGE			5.97	May 19	16.12	May 27 1984
ANNUAL RUNOFF (AC-FT)	6410000		3353000		4465000	
10 PERCENT EXCEEDS	23200		7610		13700	
50 PERCENT EXCEEDS	4950		3870		3890	
90 PERCENT EXCEEDS	2900		2860		2230	

A-From high-water mark.

09180000 DOLORES RIVER NEAR CISCO, UT

LOCATION.--Lat 38°47'50", long 109°11'40", in SW¼SE¼ 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 sea level, from river-profile map. Dec. 6, 1950 to Apr. 18, 1967, at site 200 ft downstream at different datum; Apr. 19, 1967 to Sept. 3, 1975 at site 10 ft downstream at different datum.

REMARKS.--Records fair 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, 3.4 ft³/s Sept. 23, 1956.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 22	0215	*3,760	*10.07	June 5	0400	3,040	9.73

Minimum daily discharge, 67 ft³/s Sept. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	193	e160	e160	e140	248	286	928	2360	441	74	84
2	125	190	e160	e155	e130	234	331	1210	2320	423	76	93
3	131	197	e160	e170	e130	243	380	e1720	2240	406	77	84
4	124	198	e155	e180	e140	252	441	e2150	2540	388	73	113
5	121	192	e155	e180	144	271	492	2030	2880	368	90	87
6	127	196	e155	e190	139	286	496	2150	2790	334	74	85
7	140	185	e150	e185	138	296	455	2230	2730	301	68	104
8	263	173	e150	e180	160	280	416	2490	2370	273	72	95
9	303	171	143	e175	166	277	404	2560	2070	249	74	85
10	283	175	157	e170	165	264	394	2640	1810	237	77	80
11	266	176	e155	e180	164	230	388	2600	1720	211	79	75
12	235	193	e160	e175	162	212	387	2540	1690	197	76	68
13	221	214	e165	e170	141	207	371	2590	1550	189	77	67
14	217	214	e160	e170	138	200	394	2660	1400	181	76	91
15	212	197	e150	e170	127	200	573	2960	1260	160	70	154
16	205	205	e135	e170	130	211	809	2960	1120	153	73	182
17	204	196	e140	e165	141	249	852	3020	987	139	117	167
18	289	185	e150	e160	162	262	1020	3080	815	127	85	145
19	300	180	e140	e160	208	269	1070	3110	776	114	78	142
20	279	e160	e125	e160	238	264	1090	3330	771	103	169	170
21	257	e140	e130	e165	216	297	1130	3310	750	91	296	173
22	240	134	e130	e165	216	341	1190	3270	803	101	148	232
23	223	150	e140	e165	189	401	1270	3190	857	116	158	238
24	218	184	e150	e165	187	401	1320	2820	775	108	115	192
25	211	190	e140	167	178	379	1140	2370	713	101	101	156
26	207	171	e155	185	183	354	1020	2040	650	100	90	125
27	205	e160	e150	198	214	325	886	1870	609	99	92	116
28	203	e140	e170	180	290	314	824	1850	553	90	96	110
29	200	e150	e180	176	---	299	753	2220	525	87	89	98
30	198	e155	e175	154	---	293	829	2350	473	82	84	120
31	200	---	e165	e150	---	285	---	2460	---	74	75	---
TOTAL	6530	5364	4710	5295	4736	8644	21411	76708	42907	6043	2999	3731
MEAN	211	179	152	171	169	279	714	2474	1430	195	96.7	124
MAX	303	214	180	198	290	401	1320	3330	2880	441	296	238
MIN	121	134	125	150	127	200	286	928	473	74	68	67
AC-FT	12950	10640	9340	10500	9390	17150	42470	152200	85110	11990	5950	7400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1994, BY WATER YEAR (WY)

MEAN	255	301	233	191	271	475	1988	2867	1525	445	256	194
MAX	617	894	606	370	518	896	5338	8803	3749	877	665	325
(WY)	1987	1987	1987	1987	1987	1987	1993	1993	1993	1993	1987	1988
MIN	133	145	115	109	169	142	177	397	411	195	91.0	80.6
(WY)	1990	1991	1990	1990	1994	1990	1990	1990	1989	1994	1990	1989

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1987 - 1994	
ANNUAL TOTAL	646846		189078			
ANNUAL MEAN	1772		518		751	
HIGHEST ANNUAL MEAN					1768	1993
LOWEST ANNUAL MEAN					200	1990
HIGHEST DAILY MEAN	12900	May 18	3330	May 20	12900	May 18 1993
LOWEST DAILY MEAN	100	Sep 27	67	Sep 13	34	Aug 12 1990
ANNUAL SEVEN-DAY MINIMUM	115	Sep 25	74	Aug 6	39	Aug 8 1990
ANNUAL RUNOFF (AC-FT)	1283000		375000		544000	
10 PERCENT EXCEEDS	6890		1860		1830	
50 PERCENT EXCEEDS	290		190		261	
90 PERCENT EXCEEDS	150		91		118	

e Estimated

09180000 DOLORES RIVER NEAR CISCO, UT--Continued
(National stream-quality accounting network station)

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 TEMPERATURES: 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 July 9, 1977; minimum, 240 microsiemens June 22, 1983.
WATER TEMPERATURES: Maximum, 29.0°C Aug. 14, 1958, July 18, 1977, July 24, 1994; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum observed, 5,090 microsiemens Dec. 2; minimum observed, 325 microsiemens May 22.
WATER TEMPERATURES: Maximum observed, 29.0°C July 24; minimum observed, 0.0°C Jan. 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT , 1993											
01...	1300	139	3540	8.4	24.5	15.5	--	9.0	650	--	--
NOV											
17...	1115	194	2600	8.2	4.5	4.0	13	10.8	659	<1	<1
MAR , 1994											
22...	1020	358	2370	8.3	16.0	10.0	150	9.2	647	<1	<1
APR											
18...	1030	938	520	8.2	26.0	13.5	160	9.3	658	--	--
JUN											
17...	1100	985	460	8.3	28.5	19.0	15	8.1	655	22	47
JUL											
20...	1030	96	2120	8.3	30.0	23.0	13	6.8	654	71	120
AUG											
25...	1130	110	1420	8.3	32.0	22.0	--	7.0	654	--	--

DATE	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT , 1993											
01...	580	140	57	530	65	10	23	--	--	--	430
NOV											
17...	450	110	42	360	63	7	17	0	201	165	270
MAR , 1994											
22...	380	90	38	330	64	7	17	--	193	158	270
APR											
18...	150	40	12	45	39	2	3.9	0	115	94	81
JUN											
17...	140	41	8.6	37	36	1	2.7	0	103	85	66
JUL											
20...	370	95	31	310	64	7	14	0	173	142	240
AUG											
25...	390	97	35	150	45	3	13	--	--	--	310

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
OCT , 1993										
01...	840	0.50	4.7	2070	2120	2.82	777	0.130	--	<0.010
NOV										
17...	550	0.50	7.7	1460	1460	1.99	765	0.050	0.050	0.030
MAR , 1994										
22...	520	0.30	6.5	1360	1370	1.85	1310	0.120	0.120	0.030
APR										
18...	55	0.20	7.5	308	302	0.42	780	0.080	0.080	0.020
JUN										
17...	52	0.20	5.1	273	264	0.37	726	0.055	--	<0.010
JUL										
20...	460	0.30	2.2	1230	1240	1.67	319	--	--	<0.010
AUG										
25...	180	0.40	8.7	914	887	1.24	271	0.510	0.510	0.030

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT , 1993										
01...	0.130	0.130	0.050	0.06	--	--	--	--	--	<0.010
NOV										
17...	0.080	0.080	0.180	0.23	0.22	0.40	0.48	0.020	0.020	<0.010
MAR , 1994										
22...	0.150	0.150	0.150	0.19	0.25	0.40	0.55	<0.010	<0.010	<0.010
APR										
18...	0.100	0.100	0.070	0.09	0.83	0.90	1.0	0.250	<0.010	<0.010
JUN										
17...	0.055	0.055	0.020	0.03	0.28	0.30	0.36	0.070	0.010	<0.010
JUL										
20...	--	<0.050	0.010	0.01	0.19	0.20	0.20	0.020	<0.010	<0.010
AUG										
25...	0.540	0.540	0.030	0.04	--	--	--	--	--	<0.010

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
NOV , 1993							
17...	1115	<10	100	<1	20	40	20
MAR , 1994							
22...	1020	<10	100	<1	20	40	20
JUN							
17...	1100	40	68	<3	23	11	3
JUL							
20...	1030	<10	100	<1	20	40	<10

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)
NOV , 1993						
17...	<1	1	1	<1.0	1400	11
MAR , 1994						
22...	2	<1	1	<1.0	1200	9
JUN						
17...	<10	<1	<1	<1.0	430	<6
JUL						
20...	1	<1	<1	<1.0	1300	8

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT , 1993		
01...	1300	140
AUG , 1994		
25...	1130	110

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2560	---	3180	3260	2310	2600	1800	800	365	1190	2270	1910
2	2550	---	5090	2630	2240	1920	1690	820	---	1080	2410	1960
3	2540	---	4450	3150	2120	1800	1960	630	370	1190	2480	2070
4	2050	2170	3450	---	2290	1960	1700	520	350	1200	2600	---
5	2070	2230	3270	3570	2120	1830	1470	445	355	1210	2730	1950
6	2080	2100	2560	3010	3200	1910	1110	395	335	1290	2790	1930
7	2050	2100	2730	2830	3450	1800	1010	360	340	1290	2690	2170
8	---	2260	3380	2790	2380	1810	900	370	---	1360	2650	1710
9	---	---	2750	2830	2040	1700	1050	380	355	1400	2660	1820
10	---	2350	3160	3010	2520	1860	1150	385	370	1560	2720	2120
11	---	2520	3450	3350	2000	1960	1320	---	395	1650	2280	2130
12	---	2670	3620	3140	2320	1910	---	---	395	1740	2450	2010
13	---	2500	4430	3630	2120	1980	1450	360	400	1870	2540	1940
14	---	2690	3260	3790	2100	2480	1350	360	400	1740	2490	2050
15	---	2800	3080	3630	2160	2620	1400	410	425	1890	2570	2190
16	---	2800	3600	2730	2340	2650	1130	375	455	1920	2650	2330
17	---	2520	3150	3710	2370	2920	670	---	475	1960	2550	2180
18	---	2780	2730	---	2370	2820	---	380	630	2020	---	1850
19	---	2600	3340	4250	2330	2310	550	355	640	2050	2380	1480
20	---	2470	3670	3920	2030	2420	520	340	630	2150	2390	1380
21	1300	2630	2960	3860	2030	2180	530	330	700	2270	1970	1500
22	---	2870	---	3850	2100	2250	570	325	730	2350	2140	1550
23	---	2930	---	3940	2030	2020	570	---	720	2500	1850	1400
24	1600	3260	---	3650	---	1470	570	340	690	2560	1570	1430
25	1730	3880	4780	2820	---	1400	600	345	700	2670	1510	1560
26	1940	3860	4240	2110	1970	1340	680	---	---	2540	1640	1090
27	1950	3210	4590	1890	2330	1340	660	405	820	2300	1660	1190
28	---	2980	4390	2600	2300	1340	750	435	860	2220	1520	1330
29	2050	2930	3520	2900	---	---	820	430	1000	2300	1850	1470
30	2150	3210	3580	---	---	1610	920	395	990	2380	1800	1500
31	2100	---	3130	2240	---	1600	---	375	---	2320	1900	---
MEAN	2050	2740	3550	3180	2290	1990	1030	426	552	1880	2260	1770

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	---	3.0	2.0	.5	7.0	8.0	12.0	16.5	23.5	24.5	20.0
2	16.0	---	3.0	1.5	.5	7.0	9.5	13.5	---	23.5	22.5	19.5
3	15.5	---	2.0	1.5	.5	7.5	11.0	14.5	18.0	22.5	23.0	19.5
4	15.5	8.0	1.0	---	1.0	8.0	12.0	12.5	16.5	22.5	23.5	---
5	15.5	5.0	2.0	1.0	1.0	9.0	10.0	13.5	17.0	22.5	22.5	24.5
6	15.5	5.5	2.0	3.0	1.0	9.5	10.0	16.0	16.5	21.5	22.5	20.0
7	15.0	5.5	2.0	1.0	2.0	8.5	10.5	14.5	---	19.5	23.0	18.0
8	---	5.0	5.0	1.0	3.0	9.0	9.5	13.0	---	24.5	23.0	22.0
9	---	---	4.0	1.0	4.0	8.0	10.5	14.0	15.5	22.0	21.5	19.5
10	---	5.5	2.5	1.0	3.0	8.0	9.5	13.0	16.0	22.5	20.5	18.5
11	---	5.0	3.0	1.0	4.0	8.5	10.0	---	22.0	24.0	26.0	18.5
12	---	7.0	4.0	1.0	1.5	10.0	---	---	18.5	24.5	23.0	18.5
13	---	7.0	2.0	1.0	.5	10.0	11.5	14.5	18.5	25.0	23.5	18.0
14	---	7.5	1.0	.0	1.5	10.0	13.0	14.0	18.5	22.0	23.0	17.0
15	---	5.0	1.5	.5	4.0	10.0	12.0	14.0	18.5	21.0	21.0	16.5
16	---	4.0	4.0	.5	4.0	10.0	17.0	14.5	18.5	21.5	27.0	16.5
17	---	5.0	2.5	.5	4.5	12.0	---	---	19.0	22.0	23.0	16.5
18	---	5.0	1.0	---	5.0	10.0	---	17.0	19.5	21.5	---	17.0
19	---	4.5	1.5	1.0	6.0	11.0	14.0	15.0	21.5	22.0	22.5	17.0
20	---	3.5	1.5	1.0	4.5	10.5	13.5	15.5	20.5	22.0	22.5	17.5
21	12.0	3.0	.5	.5	3.5	9.0	14.0	13.5	21.0	23.0	22.0	17.0
22	---	4.5	---	1.0	3.0	10.5	15.0	14.0	20.5	22.5	22.0	17.5
23	---	7.5	---	1.0	2.5	9.5	15.0	---	20.5	22.5	21.5	15.5
24	11.0	5.0	---	1.0	---	11.0	13.5	15.0	21.0	29.0	20.5	15.5
25	10.0	1.5	1.0	2.0	---	9.5	12.5	15.0	20.5	24.0	20.0	15.5
26	10.5	1.0	1.5	2.5	5.5	8.5	11.5	---	---	24.0	21.0	15.5
27	9.5	1.0	2.0	3.0	7.5	8.0	10.5	15.5	22.0	23.5	21.0	15.0
28	---	1.5	2.0	2.5	7.5	6.0	9.5	16.5	23.0	24.0	20.5	15.0
29	9.0	1.0	2.0	1.5	---	---	10.0	16.0	24.0	23.5	21.5	15.5
30	5.0	1.5	2.0	---	---	7.5	12.5	18.0	22.0	23.5	22.0	15.0
31	5.0	---	2.0	.5	---	8.0	---	17.5	---	24.0	21.5	---
MEAN	12.1	4.4	2.2	1.2	3.1	9.0	11.7	14.7	19.4	23.0	22.4	17.6

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV , 1993						
17...	1115	194	4.0	--	131	69
MAR , 1994						
22...	1020	358	10.0	97	487	471
APR						
18...	1030	938	13.5	73	2010	5090
JUN						
17...	1100	985	19.0	66	226	601

09180500 COLORADO RIVER NEAR CISCO, UT

LOCATION.--Lat 38°48'38", long 109°17'34", in NW¼NW¼ 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, calender-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 sea level, from river-profile map. Prior to Nov. 10, 1914, several staff and chain gages at bridge near Moab, 31 mi downstream at datum, 3,937.73 ft above mean sea level.

REMARKS.--Records good. No estimated daily discharges. Diversions above station for irrigation and power, including several transmountain diversions. Flow regulated by Blue Mesa Reservoir (see station 09124600) since Nov. 27, 1965.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood on July 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 21	1445	*15,300	*7.29				

Minimum discharge, 1,820 ft³/s Aug. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4190	5060	4460	4020	2830	3760	3430	5720	13500	4160	2120	2900
2	4160	5120	4410	4000	2620	3610	3500	5720	14400	3920	2270	2930
3	4040	5120	4380	4100	2620	3560	3810	6130	14300	3710	2200	3050
4	3900	5160	4310	4290	2830	3630	3930	6090	13900	3710	2180	3300
5	3840	4990	4290	4280	2930	3890	3990	5860	13800	3670	2180	3450
6	3840	4780	4230	4330	3060	3830	4030	6010	13300	3560	2050	3380
7	4130	4690	4290	4230	3160	3900	3850	7370	12600	3280	1930	3260
8	4460	4700	4160	4120	3180	3840	3530	9450	11500	3040	1910	3140
9	5770	5000	4180	4020	3310	3750	3660	10400	10500	2950	2030	3040
10	5340	5100	4220	4010	3360	3650	3750	11100	9730	2940	2330	2960
11	5160	5040	4240	4110	3230	3490	3670	11100	9150	2880	2710	2880
12	5170	5020	4340	4030	3200	3270	3530	10800	8790	2900	2740	2860
13	5220	5200	4460	3920	3160	3400	3490	11700	8560	2780	2620	3000
14	5420	5100	4420	3960	3000	3370	3350	12800	8360	2710	2600	3360
15	5390	4930	4160	3910	2880	3370	3390	12800	7890	2650	2590	3730
16	5430	4910	3980	3810	2930	3420	3770	13100	7470	2600	2780	3660
17	5640	4670	4190	3640	2980	3560	3790	12900	6990	2590	2700	3510
18	5710	4220	4320	3410	3070	3690	4260	13600	6430	2490	2520	3350
19	5550	3910	4070	3280	3560	3740	4780	14200	6140	2460	2420	3180
20	5290	4070	3920	3330	3640	3690	5180	14500	6150	2550	2700	3190
21	5100	4370	3970	3290	3360	3810	5740	15000	6450	2540	3030	3130
22	4980	4310	3870	3280	3280	4010	6480	14700	6790	2490	3080	3200
23	4890	4470	3770	3250	3250	4020	7360	14300	7450	2370	3010	3260
24	4860	4460	3910	3240	3160	4150	8060	14100	8090	2270	2820	3160
25	5010	4700	3820	3290	3020	4160	8530	13500	7190	2230	2650	3070
26	5140	4430	4000	3400	3110	4090	8680	12700	6470	2350	2610	2940
27	5160	4080	3960	3440	3420	3900	8030	12300	5860	2340	2540	2860
28	5080	3880	4250	3480	3760	3700	7100	11600	5260	2170	2660	2830
29	5110	4080	4400	3350	---	3500	6340	12000	4700	2010	2880	2720
30	5210	4280	4360	3200	---	3390	5910	12700	4350	1910	3020	3190
31	5160	---	4210	3070	---	3420	---	12800	---	1920	2980	---
TOTAL	153350	139850	129550	115090	87910	114570	148920	347050	266070	86150	78860	94490
MEAN	4947	4662	4179	3713	3140	3696	4964	11200	8869	2779	2544	3150
MAX	5770	5200	4460	4330	3760	4160	8680	15000	14400	4160	3080	3730
MIN	3840	3880	3770	3070	2620	3270	3350	5720	4350	1910	1910	2720
AC-FT	304200	277400	257000	228300	174400	227200	295400	688400	527700	170900	156400	187400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1994, BY WATER YEAR (WY)

MEAN	3938	3771	3267	3063	3247	3765	8400	19580	22350	8935	4238	3619
MAX	9416	7601	6588	6371	6326	8412	22590	42090	55530	31750	11400	11330
(WY)	1942	1987	1987	1985	1985	1985	1942	1984	1917	1957	1984	1929
MIN	1353	1730	2044	1900	2015	2009	1638	2322	2820	1057	1017	1078
(WY)	1935	1935	1940	1937	1935	1977	1977	1977	1977	1934	1934	1934

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1914 - 1994	
ANNUAL TOTAL	3593670		1761860			
ANNUAL MEAN	9846		4827		7352	
HIGHEST ANNUAL MEAN					14930	1984
LOWEST ANNUAL MEAN					2631	1977
HIGHEST DAILY MEAN	47600	May 23	15000	May 21	73200	Jun 19 1917
LOWEST DAILY MEAN	2300	Jan 5	1910	Jul 30	640	Jul 21 1934
ANNUAL SEVEN-DAY MINIMUM	2340	Jan 1	2070	Aug 3	736	Jul 15 1934
ANNUAL RUNOFF (AC-FT)	7128000		3495000		5326000	
10 PERCENT EXCEEDS	24800		8720		18700	
50 PERCENT EXCEEDS	5160		3910		3810	
90 PERCENT EXCEEDS	3100		2650		2220	

09180500 COLORADO RIVER NEAR CISCO, UT--Continued
(National stream-quality accounting network station)

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 TEMPERATURES: 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 TEMPERATURES: Maximum, 29.0°C July 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 daily, 1,480 microsiemens Sept. 29; minimum observed, 465 microsiemens May 22.
WATER TEMPERATURES: Maximum daily, 28.0°C July 16; minimum observed, 0.0°C many days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT , 1993											
01...	1300	3930	1280	8.6	28.0	16.0	--	8.7	650	--	--
DEC											
02...	1100	4410	1290	8.5	2.0	2.0	2.3	12.1	660	<1	<1
MAR , 1994											
24...	1115	4160	1100	8.3	15.0	10.0	28	9.5	658	<1	<1
APR											
21...	1045	5950	820	8.3	22.0	15.0	58	7.8	660	--	--
MAY											
18...	1015	13800	440	8.1	27.0	15.0	170	8.9	650	<1	<1
JUN											
20...	1000	6110	730	8.5	32.0	22.0	17	7.8	660	25	52
JUL											
22...	0930	2420	1260	8.3	32.0	23.0	--	7.6	660	--	--
AUG											
22...	1030	3050	1370	8.3	31.0	24.0	--	6.9	650	--	--

DATE	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT , 1993											
01...	420	110	36	110	36	2	4.5	--	--	--	350
DEC											
02...	350	91	30	120	42	3	4.5	3	191	162	270
MAR , 1994											
24...	300	76	26	110	44	3	4.6	0	184	151	230
APR											
21...	260	69	21	69	36	2	3.5	0	161	132	180
MAY											
18...	170	47	12	27	26	0.9	1.9	0	119	98	90
JUN											
20...	240	67	17	55	33	2	2.7	9	123	115	170
JUL											
22...	420	110	35	110	36	2	4.3	--	--	--	360
AUG											
22...	450	120	36	110	35	2	5.1	--	--	--	410

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)
OCT , 1993											
01...	110	0.40	7.6	822	817	1.12	8720	0.470	--	<0.010	0.470
DEC											
02...	140	0.30	9.3	790	765	1.07	9410	0.520	--	<0.010	0.520
MAR , 1994											
24...	120	0.30	9.8	684	670	0.93	7680	0.440	0.440	0.010	0.450
APR											
21...	69	0.30	9.7	519	503	0.71	8340	0.380	0.380	0.010	0.390
MAY											
18...	21	0.20	8.6	270	267	0.37	10100	0.220	0.220	0.040	0.260
JUN											
20...	60	0.20	5.3	466	449	0.63	7690	0.240	--	<0.010	0.240
JUL											
22...	110	0.40	4.5	856	823	1.16	5590	0.750	0.750	0.010	0.760
AUG											
22...	110	0.20	9.4	968	899	1.32	7970	0.950	--	<0.010	0.950

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT , 1993										
01...	0.470	0.030	0.04	--	--	--	--	--	<0.010	--
DEC										
02...	0.520	0.040	0.05	--	<0.20	--	0.010	<0.010	<0.010	--
MAR , 1994										
24...	0.450	0.080	0.10	0.32	0.40	0.85	0.080	0.020	0.020	0.06
APR										
21...	0.390	0.060	0.08	0.94	1.0	1.4	0.350	<0.010	0.020	0.06
MAY										
18...	0.260	0.050	0.06	0.75	0.80	1.1	0.350	<0.010	0.020	0.06
JUN										
20...	0.240	0.020	0.03	0.28	0.30	0.54	0.040	<0.010	<0.010	--
JUL										
22...	0.760	0.010	0.01	--	--	--	--	--	<0.010	--
AUG										
22...	0.950	0.030	0.04	--	--	--	--	--	<0.010	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)
DEC , 1993							
02...	1100	<10	53	<3	6	36	16
MAR , 1994							
24...	1115	<10	58	<3	34	32	13
APR							
21...	1045	20	65	<3	18	25	4
JUN							
20...	1000	10	54	<3	11	21	2

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
DEC , 1993						
02...	<10	<1	4	<1.0	930	<6
MAR , 1994						
24...	<10	2	2	<1.0	800	<6
APR						
21...	<10	1	3	<1.0	670	<6
JUN						
20...	<10	<1	3	<1.0	650	<6

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT , 1993		
01...	1300	80
JUL , 1994		
22...	0930	100
AUG		
22...	1030	100

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150	1070	1150	1030	1160	1170	1070	800	530	940	1390	1300
2	1230	1050	---	1000	1170	1130	1070	850	510	990	1410	1290
3	1210	1060	1130	1020	1220	1150	1070	860	490	1000	1380	1270
4	1210	1070	1140	1030	1260	1170	1000	880	495	1030	1360	1270
5	1200	1070	1120	1050	1260	1170	1060	910	500	1020	1400	1270
6	1090	1070	1060	1030	1260	1170	1040	920	510	1020	1370	1250
7	1240	1090	1060	1000	1220	1140	1010	890	530	1040	1430	1270
8	1260	1100	1070	990	---	1110	990	710	560	1090	1420	1260
9	1320	1110	---	1040	1200	1110	1050	600	590	1120	1420	1240
10	1320	1100	1060	990	1180	1100	1030	580	630	1140	1440	1270
11	1290	1080	1090	990	1130	1100	1060	560	650	1140	1410	1280
12	1230	1120	1080	990	1170	1120	1080	560	690	1050	1410	1300
13	1220	1100	---	1020	1240	1140	1120	550	690	1170	1400	1290
14	1190	1110	1090	1020	1170	1150	1140	520	700	1180	1380	1400
15	1150	1150	1010	1000	1210	1150	1190	485	720	1190	1330	1360
16	1160	1130	1030	1080	1190	---	1150	510	730	1170	1370	1350
17	1150	1130	1030	1110	1210	1180	1140	520	500	1170	1360	1340
18	1110	1150	1060	1140	1190	1160	1110	520	740	1210	1450	1330
19	1110	1170	1100	1170	1220	1110	1060	510	770	1190	1370	1290
20	1140	1210	1070	1220	1200	1090	960	475	880	1220	1420	1280
21	1170	1250	1060	1210	1140	1070	890	470	800	1200	1430	1310
22	1180	1180	1070	1200	1150	1060	830	465	810	1210	1350	1330
23	1170	1130	1120	1200	1180	1060	740	475	800	1270	1330	1320
24	1170	1130	1060	1200	1150	1050	680	480	770	1260	1330	1330
25	1160	1150	1120	1140	1170	1000	640	490	750	1320	1420	1270
26	1150	1170	1150	1170	1190	1000	610	500	800	1280	1360	1280
27	1150	1130	1130	1130	1190	1000	610	530	830	1270	1340	1300
28	1120	1100	---	1150	1210	1010	640	540	860	1320	1350	1300
29	1090	1150	1020	1170	---	1050	700	560	890	1240	1350	1480
30	1090	---	1080	1140	---	1060	780	570	930	1330	1450	1370
31	1070	---	1040	1130	---	---	---	550	---	1370	1330	---
MEAN	1180	1120	1080	1090	1190	1100	951	608	688	1170	1390	1310

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	8.0	4.0	.0	.0	8.0	12.0	16.0	18.0	24.0	27.0	24.0
2	18.0	8.0	---	.0	.0	8.0	12.0	17.0	18.0	24.0	27.0	24.0
3	18.0	8.0	4.0	.0	2.0	8.0	12.0	17.0	18.0	24.0	27.0	24.0
4	17.0	8.0	4.0	.0	2.0	8.0	14.0	17.0	18.0	24.0	27.0	24.0
5	17.0	8.0	4.0	.0	2.0	8.0	14.0	17.0	18.0	24.0	27.0	24.0
6	17.0	8.0	3.0	.0	2.0	8.0	14.0	17.0	18.0	24.0	27.0	24.0
7	17.0	8.0	3.0	.0	3.0	10.0	14.0	17.0	20.0	24.0	27.0	22.0
8	16.0	7.0	3.0	.0	---	10.0	14.0	17.0	20.0	24.0	27.0	22.0
9	16.0	7.0	---	.0	4.0	10.0	14.0	17.0	20.0	24.0	27.0	22.0
10	16.0	7.0	3.0	.0	4.0	10.0	14.0	17.0	20.0	24.0	27.0	22.0
11	16.0	6.0	2.0	.0	4.0	10.0	14.0	17.0	20.0	24.0	27.0	22.0
12	16.0	6.0	2.0	.0	4.0	10.0	14.0	17.0	21.0	24.0	26.0	20.0
13	16.0	6.0	---	2.0	6.0	11.0	14.0	17.0	22.0	26.0	26.0	20.0
14	14.0	6.0	2.0	2.0	6.0	11.0	14.0	17.0	22.0	26.0	26.0	20.0
15	14.0	6.0	2.0	2.0	6.0	11.0	14.0	17.0	22.0	26.0	26.0	20.0
16	14.0	6.0	2.0	2.0	6.0	---	14.0	17.0	23.0	28.0	26.0	20.0
17	14.0	6.0	2.0	2.0	6.0	11.0	14.0	17.0	23.0	26.0	26.0	18.0
18	12.0	5.0	2.0	2.0	6.0	11.0	14.0	17.0	23.0	26.0	26.0	18.0
19	12.0	5.0	2.0	2.0	6.0	12.0	14.0	17.0	23.0	27.0	25.0	18.0
20	12.0	5.0	.0	2.0	6.0	12.0	14.0	17.0	24.0	27.0	25.0	18.0
21	12.0	5.0	.0	2.0	6.0	12.0	15.0	17.0	24.0	27.0	25.0	17.0
22	10.0	5.0	.0	2.0	6.0	12.0	15.0	17.0	24.0	27.0	25.0	17.0
23	10.0	5.0	.0	2.0	6.0	12.0	15.0	17.0	24.0	27.0	25.0	17.0
24	10.0	5.0	.0	2.0	6.0	12.0	15.0	18.0	24.0	27.0	25.0	17.0
25	10.0	5.0	.0	4.0	6.0	12.0	15.0	18.0	24.0	27.0	25.0	17.0
26	8.0	5.0	.0	4.0	6.0	12.0	16.0	18.0	24.0	27.0	25.0	17.0
27	8.0	5.0	.0	4.0	6.0	12.0	16.0	18.0	24.0	27.0	24.0	16.0
28	8.0	5.0	---	4.0	6.0	12.0	16.0	18.0	24.0	---	24.0	16.0
29	8.0	5.0	.0	4.0	---	12.0	16.0	18.0	24.0	27.0	24.0	16.0
30	8.0	---	.0	4.0	---	12.0	16.0	18.0	24.0	27.0	24.0	16.0
31	8.0	---	.0	4.0	---	---	---	18.0	---	27.0	24.0	---
MEAN	13.2	6.2	1.6	1.7	4.6	10.6	14.3	17.2	21.7	25.7	25.8	19.7

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
DEC , 1993						
02...	1100	4410	2.0	--	54	643
MAR , 1994						
24...	1115	4160	10.0	96	135	1520
APR						
21...	1045	5950	15.0	96	383	6150
MAY						
18...	1015	13800	15.0	53	1020	38000
JUN						
20...	1000	6110	22.0	--	129	2130

09182200 CASTLE CREEK BELOW CASTLETON NEAR MOAB, UT

LOCATION.--Lat 38°36'45", long 109°19'54", in $SE^1/_4NW^1/_4SW^1/_4$ sec. 24, T. 25 S., R. 23 E., Grand County, Hydrologic Unit 14030005, on left bank and 25.5 mi northwest of Moab.

DRAINAGE AREA.--17.6 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 5,600 ft above sea level, 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, 57 ft^3/s May 27, 1993, gage height, 5.30 ft, from floodmarks; minimum daily discharge, 1.4 ft^3/s Sept. 10, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17 ft^3/s Oct. 8, gage height, 4.80 ft; minimum daily discharge, 1.4 ft^3/s, Sept. 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.3	2.0	1.9	e1.9	2.5	2.5	2.8	5.2	3.0	1.9	1.6
2	2.3	2.3	2.0	1.9	e1.9	2.5	2.6	2.7	5.2	2.9	1.9	1.5
3	2.4	2.3	2.0	1.9	e2.0	2.5	2.4	2.7	5.0	3.0	1.8	1.5
4	2.3	2.3	2.0	1.9	2.0	2.5	2.3	2.6	4.9	2.8	1.7	1.5
5	2.3	2.3	2.0	1.9	2.0	2.5	2.3	2.5	4.8	2.8	1.8	1.5
6	2.9	2.3	2.0	1.9	2.0	2.5	2.3	2.7	4.8	2.8	1.7	1.5
7	3.2	2.3	2.0	1.9	2.0	2.5	2.5	3.0	4.6	2.8	1.7	1.5
8	5.1	2.2	2.0	1.8	2.1	2.5	2.4	3.3	4.6	2.8	1.8	1.5
9	3.1	2.2	2.0	1.9	2.0	2.5	2.7	3.4	4.5	2.8	1.8	1.5
10	2.6	2.2	2.0	1.9	2.0	2.5	2.6	3.3	4.2	2.6	1.8	1.4
11	2.6	2.2	2.0	1.9	2.1	2.5	2.5	3.3	4.1	2.6	1.8	1.5
12	2.5	2.2	2.1	2.0	2.0	2.4	2.4	3.3	4.0	2.6	1.8	1.5
13	2.3	2.2	2.0	2.0	e1.9	2.3	2.5	3.7	3.8	2.5	1.7	1.5
14	2.3	2.2	2.2	2.0	2.1	2.4	2.6	4.1	3.8	2.4	1.7	1.6
15	2.3	2.2	2.0	2.0	2.1	2.4	2.4	4.3	3.7	2.4	1.7	1.6
16	2.3	2.1	2.0	2.0	2.1	2.3	2.3	4.4	3.6	2.2	1.7	1.6
17	2.5	2.2	2.0	2.1	3.0	2.3	2.3	4.5	3.6	2.3	1.7	1.6
18	2.5	2.2	2.0	2.2	2.9	2.3	2.3	4.5	3.6	2.3	1.6	1.6
19	2.3	2.1	1.9	2.1	2.5	2.4	2.3	4.4	3.7	2.2	1.8	1.6
20	2.3	2.0	e1.8	2.2	2.3	2.4	2.3	4.5	3.7	2.2	1.7	1.6
21	2.3	2.1	e1.7	2.1	2.5	2.3	2.3	4.5	3.6	2.1	1.7	1.6
22	2.3	2.2	e1.7	2.1	2.6	2.3	2.3	4.3	3.5	2.2	1.6	1.6
23	2.3	2.2	1.9	2.0	2.9	2.3	2.4	4.1	3.4	2.2	1.5	1.6
24	2.3	2.1	e1.8	2.0	2.6	2.3	2.6	4.2	3.3	2.1	1.6	1.5
25	2.3	e2.0	e1.8	2.1	2.5	2.4	2.8	4.3	3.2	2.1	1.6	1.5
26	2.3	e1.9	1.9	2.1	2.2	2.3	2.9	4.4	3.1	2.0	1.6	1.5
27	2.3	e1.9	1.9	2.1	2.7	2.3	2.9	4.5	3.1	2.0	1.6	1.5
28	2.3	2.0	1.9	2.1	2.7	2.3	2.9	4.5	3.0	1.9	1.6	1.5
29	2.3	2.0	1.9	2.1	---	2.3	2.8	4.6	3.0	1.9	1.6	1.6
30	2.3	2.0	1.9	2.1	---	2.3	2.8	4.6	3.0	1.9	1.6	1.9
31	2.3	---	1.9	e1.9	---	2.3	---	5.1	---	1.9	1.6	---
TOTAL	77.8	64.7	60.3	62.1	63.6	74.1	75.2	119.1	117.6	74.3	52.7	46.5
MEAN	2.51	2.16	1.95	2.00	2.27	2.39	2.51	3.84	3.92	2.40	1.70	1.55
MAX	5.1	2.3	2.2	2.2	3.0	2.5	2.9	5.1	5.2	3.0	1.9	1.9
MIN	2.3	1.9	1.7	1.8	1.9	2.3	2.3	2.5	3.0	1.9	1.5	1.4
AC-FT	154	128	120	123	126	147	149	236	233	147	105	92

CAL YR 1993 TOTAL 1621.4 MEAN 4.44 MAX 29 MIN 1.7 AC-FT 3220
WTR YR 1994 TOTAL 888.0 MEAN 2.43 MAX 5.2 MIN 1.4 AC-FT 1760

e Estimated

09182400 CASTLE CREEK BELOW CASTLE VALLEY NEAR MOAB, UT

LOCATION.--Lat 38°40'26", long 109°26'58", in SE¼SW¼NE¼ 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. Elevation of gage is 4,120 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 288 ft³/s May 27, 1993, gage-height, 7.68 ft, from slope-area measurement; minimum daily discharge, 3.2 ft³/s several days in July, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51 ft³/s Oct. 8, gage height, 5.45 ft; minimum daily discharge, 3.2 ft³/s several days in July.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	8.0	8.0	7.5	6.7	6.7	e7.8	7.0	6.0	3.6	3.6	3.7
2	5.6	8.0	8.0	7.5	6.8	6.7	e8.2	7.0	6.0	3.6	3.5	3.6
3	5.7	7.8	8.0	7.5	6.9	6.9	e7.4	6.7	5.9	3.6	3.4	3.6
4	5.5	7.8	8.1	7.5	6.9	e7.0	e7.0	6.6	5.4	3.5	3.4	3.7
5	5.6	7.8	8.1	7.5	7.6	e7.0	e7.0	6.4	5.1	3.5	3.4	3.8
6	6.6	7.6	8.1	7.4	7.6	e7.0	e7.0	5.9	5.0	3.3	3.4	3.8
7	8.4	7.5	8.1	7.2	7.4	e7.0	e7.8	5.6	5.2	3.2	3.4	3.8
8	e15	7.6	8.1	7.4	7.6	e7.0	e7.4	5.6	5.3	3.2	3.4	3.8
9	12	7.5	8.1	7.5	7.3	e7.0	8.4	5.5	5.1	3.2	3.5	3.8
10	7.0	7.5	8.1	7.6	7.3	e7.0	7.9	5.4	4.4	3.2	3.5	3.9
11	6.8	7.6	8.1	7.5	7.4	e7.0	7.4	5.3	4.5	3.2	3.5	3.9
12	7.1	7.9	8.5	7.5	7.2	e6.8	7.0	5.3	4.4	3.2	3.5	3.9
13	7.2	7.6	8.2	7.5	6.9	e6.7	7.6	5.3	4.4	3.2	3.5	4.0
14	7.3	7.6	7.9	7.5	7.1	e6.9	7.7	5.1	4.1	3.3	3.6	4.1
15	7.6	7.6	8.2	7.5	7.1	e6.9	7.6	5.6	4.1	3.2	3.5	4.1
16	7.6	7.6	8.4	7.5	7.1	e6.7	7.4	5.6	4.0	3.2	3.5	4.1
17	8.1	7.6	7.5	7.5	7.5	e6.7	7.3	5.3	3.9	3.3	3.6	4.2
18	9.8	7.6	7.3	7.5	8.5	e6.7	7.0	5.2	4.0	3.2	3.6	4.2
19	9.0	7.5	7.5	7.5	6.8	e6.9	7.0	5.1	4.1	3.2	3.7	4.2
20	8.6	7.4	7.3	7.4	6.7	e6.9	7.1	5.3	4.1	3.3	3.6	4.3
21	8.4	7.4	7.0	7.4	6.8	e6.7	7.1	5.3	4.0	3.3	3.6	4.4
22	8.4	7.6	7.0	7.4	6.8	e6.7	7.0	5.5	4.0	3.3	3.6	4.3
23	8.4	7.6	7.4	7.4	6.6	e6.7	7.0	5.5	3.8	3.3	3.7	4.3
24	8.3	7.6	6.9	7.4	6.7	e6.7	7.0	5.2	4.0	3.3	3.7	4.4
25	8.2	6.9	6.9	7.5	6.6	e6.9	7.4	5.0	3.9	3.3	3.7	4.5
26	8.1	6.7	7.1	7.6	6.7	e6.8	7.4	5.1	3.8	3.3	3.8	4.5
27	8.1	6.9	7.5	7.6	6.7	e6.8	7.4	5.2	3.7	3.4	3.6	4.5
28	8.0	7.3	7.6	7.4	6.8	e6.8	7.3	5.6	3.7	3.3	3.7	4.6
29	7.9	8.0	7.4	7.3	---	e6.8	7.1	5.6	3.7	3.3	3.7	4.6
30	8.0	8.0	7.4	7.3	---	e6.8	7.1	5.6	3.7	3.3	3.7	5.3
31	8.0	---	7.4	6.8	---	e7.0	---	5.8	---	3.3	3.6	---
TOTAL	245.8	227.1	239.2	230.6	198.1	212.2	220.8	174.2	133.3	102.6	110.5	123.9
MEAN	7.93	7.57	7.72	7.44	7.07	6.85	7.36	5.62	4.44	3.31	3.56	4.13
MAX	15	8.0	8.5	7.6	8.5	7.0	8.4	7.0	6.0	3.6	3.8	5.3
MIN	5.5	6.7	6.9	6.8	6.6	6.7	7.0	5.0	3.7	3.2	3.4	3.6
AC-FT	488	450	474	457	393	421	438	346	264	204	219	246

CAL YR 1993 TOTAL 3234.7 MEAN 8.86 MAX 34 MIN 4.6 AC-FT 6420
WTR YR 1994 TOTAL 2218.3 MEAN 6.08 MAX 15 MIN 3.2 AC-FT 4400

e Estimated

09183500 MILL CREEK AT SHELEY TUNNEL, NEAR MOAB, UT

LOCATION.--Lat 38°28'59", long 109°24'12", in $NW^1/_4NW^1/_4SW^1/_4$, 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.

DRAINAGE AREA.--26.8 mi^2.

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 sea level, from a topographic map. Prior to Oct. 1, 1987 at different site and datum.

REMARKS.--Records fair 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 ft^3/s Aug. 8, 1993, gage height, 7.66 ft from floodmarks, from rating curve extended above 340 ft^3/s on basis of slope-area measurement of peak flow; minimum recorded, 2.1 ft^3/s Apr. 5, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 8	2300	*113	*3.87	No other peak greater than base discharge.			

Minimum daily, 5.5 ft^3/s Sept. 27-29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.6	8.9	7.0	e6.1	5.7	6.9	14	30	12	5.9	5.9
2	12	9.8	8.6	7.0	e6.3	5.8	7.5	15	30	11	6.0	6.0
3	12	9.7	8.3	7.0	e6.4	6.0	7.4	15	29	11	6.0	6.2
4	12	9.8	8.4	7.0	6.5	6.1	7.8	16	30	11	5.8	6.3
5	12	11	8.3	7.0	6.3	6.3	7.8	22	29	11	5.8	6.1
6	17	10	8.4	6.8	6.2	6.4	7.6	25	28	10	5.6	6.0
7	24	10	8.3	6.6	6.2	6.4	8.1	26	26	9.9	5.6	6.0
8	29	10	8.2	6.9	6.2	6.5	7.4	25	24	9.7	6.6	6.1
9	12	9.8	8.2	6.8	6.2	6.4	9.0	25	23	9.4	6.1	6.1
10	11	9.8	8.0	6.7	6.1	6.3	7.8	23	22	9.3	6.0	5.9
11	11	9.8	8.0	6.6	6.0	6.2	7.6	24	21	9.2	6.0	6.2
12	11	11	8.3	e6.5	5.8	6.3	7.8	29	21	8.7	6.7	6.1
13	11	9.9	7.8	e6.4	e5.7	6.3	9.3	30	20	8.6	6.6	6.1
14	11	9.7	e7.6	6.5	e5.8	6.5	11	32	19	8.9	6.5	7.6
15	11	9.5	8.1	6.5	5.9	6.7	12	33	19	8.7	6.5	6.5
16	11	9.2	7.9	6.5	5.6	6.9	12	36	18	8.6	6.4	6.3
17	11	9.3	7.8	6.4	6.2	7.1	14	36	17	8.4	6.4	6.2
18	12	9.2	e7.7	6.5	6.2	7.2	15	36	16	8.4	6.3	6.0
19	11	8.6	7.9	6.6	5.9	7.0	15	36	17	8.4	6.5	6.1
20	10	8.3	e7.8	6.4	5.7	7.0	17	35	16	8.3	6.4	6.0
21	10	8.6	e7.6	6.4	5.8	6.9	19	31	15	8.1	6.2	5.9
22	10	9.2	e7.8	6.4	5.7	7.1	22	30	15	9.0	6.1	5.8
23	10	9.3	8.2	6.4	5.9	7.2	28	30	16	8.7	5.9	5.7
24	10	8.8	e7.7	6.4	5.7	6.9	26	31	15	8.3	5.9	5.6
25	10	8.8	e7.5	6.4	5.8	6.9	21	29	14	8.1	6.0	5.6
26	9.7	e8.6	7.6	6.5	5.8	6.6	19	28	13	7.9	6.0	5.6
27	9.7	e8.7	7.5	6.5	6.0	6.5	17	27	13	7.2	6.0	5.5
28	9.7	e8.7	7.3	6.2	5.8	6.3	16	28	12	5.9	6.0	5.5
29	9.9	8.4	7.2	6.2	---	6.6	15	29	12	6.0	5.9	5.5
30	9.4	8.9	7.2	6.1	---	6.5	15	30	12	6.1	5.9	7.9
31	9.7	---	7.2	e6.1	---	6.6	---	30	---	6.0	5.9	---
TOTAL	371.1	282.0	245.3	203.3	167.8	203.2	396.0	856	592	271.8	189.5	182.3
MEAN	12.0	9.40	7.91	6.56	5.99	6.55	13.2	27.6	19.7	8.77	6.11	6.08
MAX	29	11	8.9	7.0	6.5	7.2	28	36	30	12	6.7	7.9
MIN	9.4	8.3	7.2	6.1	5.6	5.7	6.9	14	12	5.9	5.6	5.5
AC-FT	736	559	487	403	333	403	785	1700	1170	539	376	362

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955-59, 1988-94, BY WATER YEAR (WY)

MEAN	8.33	7.36	6.79	6.26	5.93	6.44	11.6	29.1	27.6	13.5	9.76	8.37
MAX	12.1	15.6	11.0	8.82	8.06	9.43	22.2	70.5	67.9	33.7	18.7	13.5
(WY)	1958	1988	1988	1988	1988	1988	1958	1958	1957	1957	1993	1993
MIN	4.84	3.89	4.30	4.60	4.48	4.88	5.42	8.03	7.08	5.32	4.69	5.00
(WY)	1957	1957	1955	1957	1956	1957	1990	1990	1959	1959	1990	1959

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1955-59, 1988-94	
ANNUAL TOTAL	7769.1		3960.3			
ANNUAL MEAN	21.3		10.9		11.8	
HIGHEST ANNUAL MEAN					20.4	1993
LOWEST ANNUAL MEAN					6.13	1990
HIGHEST DAILY MEAN	141	May 27	36	May 16	141	May 27 1993
LOWEST DAILY MEAN	5.3	Mar 1	5.5	Sep 27	2.8	Nov 2 1956
ANNUAL SEVEN-DAY MINIMUM	5.4	Feb 27	5.6	Sep 23	3.2	Oct 30 1956
ANNUAL RUNOFF (AC-FT)	15410		7860		8530	
10 PERCENT EXCEEDS	58		24		22	
50 PERCENT EXCEEDS	11		7.9		7.5	
90 PERCENT EXCEEDS	5.8		5.9		5.0	

e Estimated

09217000 GREEN RIVER NEAR GREEN RIVER, WY

LOCATION.--Lat 41°30'59", long 109°26'54", in NW¼ NE¼ NE¼ 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.--About 14,000 mi², of which 4,260 mi², including 3,959 mi² in Great Divide Basin in southern Wyoming, is probably 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 sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 19-21 and Nov. 24 to Mar. 13. Records good except those for estimated daily discharges, which are poor. Some regulation by Fontenelle Reservoir since August 1963. (See sta 09211150.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, and diversions for irrigation of about 223,000 acres upstream from station. National Weather Service satellite telemeter at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	591	930	1330	1300	940	660	971	979	781	744	1040	470
2	579	947	1330	1300	940	680	973	972	746	745	1030	473
3	863	935	1330	1290	920	680	975	863	847	769	1040	464
4	904	916	1330	1200	920	680	980	694	948	769	1050	467
5	910	916	1250	1200	960	700	980	544	945	767	1070	461
6	904	916	1300	1140	1080	680	993	501	954	868	1080	459
7	916	904	1370	1200	1080	680	1000	502	956	947	996	463
8	936	897	1360	1200	1090	680	998	741	966	968	882	463
9	949	906	1320	1100	1100	680	1050	756	972	968	854	461
10	956	908	1300	1100	1100	710	1180	759	972	972	842	465
11	976	915	1270	1100	1050	730	1190	1540	967	965	827	468
12	966	942	1300	1100	980	750	1190	1500	964	956	723	470
13	956	1070	1300	1100	920	770	1200	882	961	956	593	488
14	930	1330	1320	1100	940	790	1200	760	956	958	580	492
15	894	1340	1320	1100	960	769	1200	739	960	961	560	481
16	901	1340	1300	1100	1000	762	1200	746	967	978	551	477
17	908	1330	1200	1120	980	764	1200	748	967	969	559	477
18	908	1340	1160	1130	960	753	1210	736	964	949	576	480
19	908	1300	1130	1120	960	768	1200	741	968	936	562	474
20	908	1300	1150	1120	980	796	1200	763	972	935	534	455
21	908	1300	1200	1120	960	775	1200	762	972	930	508	416
22	908	1330	1300	1100	960	761	1200	762	920	933	508	418
23	913	1350	1290	1100	980	754	1180	751	789	929	491	430
24	916	1300	1270	1090	990	726	1170	742	783	943	483	443
25	916	1200	1270	1090	800	730	1150	754	783	939	480	448
26	913	1100	1270	1100	660	711	1150	749	775	938	470	453
27	937	1200	1270	1080	660	702	1150	761	764	942	464	469
28	921	1300	1270	1070	660	689	1150	788	778	948	463	575
29	905	1300	1200	1000	---	728	1050	795	752	949	467	718
30	918	1300	1200	940	---	824	988	767	745	964	472	811
31	924	---	1300	920	---	919	---	774	---	981	465	---
TOTAL	27842	34062	39510	34730	26530	22801	33478	24871	26794	28476	21220	14589
MEAN	898	1135	1275	1120	947	736	1116	802	893	919	685	486
MAX	976	1350	1370	1300	1100	919	1210	1540	972	981	1080	811
MIN	579	897	1130	920	660	660	971	501	745	744	463	416
AC-FT	55220	67560	78370	68890	52620	45230	66400	49330	53150	56480	42090	28940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1994, BY WATER YEAR (WY)

MEAN	953	824	690	703	790	1001	1684	2610	4811	3197	1573	1145
MAX	3109	1844	1419	1382	1980	1852	3416	5665	11700	9415	3577	7746
(WY)	1983	1984	1972	1972	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 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1952 - 1994	
ANNUAL TOTAL	568674		334903		--	
ANNUAL MEAN	1558		918		1667	
HIGHEST ANNUAL MEAN	--		--		3089	1986
LOWEST ANNUAL MEAN	--		--		689	1977
HIGHEST DAILY MEAN	4610	Jun 15	1540	May 11	16700	Sep 7 1965
LOWEST DAILY MEAN	440	Jan 1	416	Sep 21	170	Nov 16 1955
ANNUAL SEVEN-DAY MINIMUM	447	Jan 6	438	Sep 20	214	Dec 24 1962
INSTANTANEOUS PEAK FLOW	--		1750a	May 11	16800b	Sep 7 1965
INSTANTANEOUS PEAK STAGE	--		5.01c	Nov 25	8.53	Sep 7 1965
ANNUAL RUNOFF (AC-FT)	1128000		664300		1207000	
10 PERCENT EXCEEDS	3290		1280		3710	
50 PERCENT EXCEEDS	1250		940		1030	
90 PERCENT EXCEEDS	620		497		439	

a Gage height, 2.57 ft.
b Caused by emergency release from Fontenelle Reservoir.
c Backwater from ice.

09217900 BLACKS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 40°57'33", long 110°34'46", in SW¼ SW¼ SW¼ sec.27, T.3 N., R.12 E., Summit County, UT, 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, approximately.

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 sea level (Bureau of Reclamation bench mark). 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.

REMARKS.--Estimated daily discharges: Oct. 19 to Mar. 31 and May 10-24. Records fair except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 16	unknown	*1,070	*4.00	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	22	27	26	18	19	4.3	67	499	129	49	44
2	27	23	27	26	19	19	3.2	67	477	125	41	45
3	27	24	28	27	19	18	4.9	68	509	121	36	50
4	26	22	27	26	18	17	3.2	84	528	114	34	45
5	26	21	26	26	19	16	3.2	155	496	109	32	43
6	32	20	25	26	20	14	4.9	237	444	98	31	43
7	37	20	27	26	21	14	4.0	270	386	93	32	46
8	37	20	29	25	20	13	3.8	288	326	84	33	43
9	35	20	30	26	19	12	4.3	382	303	79	60	42
10	34	21	28	25	20	11	3.8	520	300	73	53	40
11	38	22	26	24	18	10	4.3	630	319	68	51	39
12	46	23	24	25	17	9.0	12	670	323	65	46	46
13	41	24	24	26	16	8.4	16	690	316	62	45	58
14	39	23	23	26	16	8.6	19	730	293	59	45	57
15	37	22	24	24	17	8.4	20	690	273	57	43	53
16	34	23	24	24	18	8.0	27	750	252	55	42	49
17	37	23	23	25	19	6.8	36	540	240	52	41	47
18	38	23	22	25	20	6.8	51	470	232	49	47	45
19	32	22	23	25	19	7.2	70	410	237	47	78	45
20	32	23	23	24	17	7.0	91	370	226	42	62	45
21	31	23	24	23	18	7.2	142	320	257	40	59	44
22	32	24	24	22	17	7.0	246	360	275	41	51	42
23	30	22	26	21	18	6.8	264	420	230	41	50	42
24	31	20	29	20	19	6.6	203	470	210	41	47	41
25	28	18	30	20	20	6.8	155	516	192	40	46	40
26	24	20	29	20	20	6.6	122	547	179	35	46	40
27	24	19	28	21	20	6.4	99	515	170	34	46	40
28	27	23	27	20	20	6.2	80	736	157	37	49	40
29	25	26	25	19	---	5.8	73	623	147	35	49	44
30	21	26	25	18	---	5.6	69	689	139	35	46	50
31	22	---	25	17	---	5.0	---	728	---	41	44	---
TOTAL	977	662	802	728	522	303.2	1838.9	14012	8935	2001	1434	1348
MEAN	31.5	22.1	25.9	23.5	18.6	9.78	61.3	452	298	64.5	46.3	44.9
MAX	46	26	30	27	21	19	264	750	528	129	78	58
MIN	21	18	22	17	16	5.0	3.2	67	139	34	31	39
AC-FT	1940	1310	1590	1440	1040	601	3650	27790	17720	3970	2840	2670

09218500 BLACKS FORK NEAR MILLBURNE, WY

LOCATION.--Lat 41°01'54", long 110°34'43", in NW¼ NE¼ SW¼ sec.11, T.12 N., R.117 W., Uinta County, Hydrologic Unit 14040107, on left bank 0.4 mi downstream from Meeks Cabin Dam, 2.7 mi north of Utah-Wyoming State line, and 17 mi southwest of Millburne.

DRAINAGE AREA.--152 mi².

PERIOD OF RECORD.--July 1939 to current year (no winter records since 1992). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 929: 1940.

GAGE.--Water-stage recorder. Datum of gage is 8,512.27 ft above sea level (Bureau of Reclamation bench mark). Prior to Oct. 1, 1971, at several sites about 2.0 mi downstream at various datums.

REMARKS.--Estimated daily discharges: May 1-13. Records good except those for estimated daily discharges, which are poor. Flow completely regulated by Meeks Cabin Reservoir, capacity, 32,470 acre-ft, since June 1971. Result of discharge measurements, in cubic feet per second, made during period when station was not in operation, is given below:

Oct. 4 . . . 62.5
Apr. 26 . . . 30.9

COOPERATION.--Records provided by Office of the Wyoming State Engineer and reviewed by the Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	45	775	404	104	75
2	---	---	---	---	---	---	---	45	771	404	89	75
3	---	---	---	---	---	---	---	45	707	400	78	74
4	---	---	---	---	---	---	---	45	677	398	78	72
5	---	---	---	---	---	---	---	45	687	367	78	72
6	---	---	---	---	---	---	---	45	685	347	78	75
7	---	---	---	---	---	---	---	45	703	351	78	78
8	---	---	---	---	---	---	---	45	727	347	78	78
9	---	---	---	---	---	---	---	45	730	344	62	78
10	---	---	---	---	---	---	---	45	602	339	52	78
11	---	---	---	---	---	---	---	45	507	335	53	78
12	---	---	---	---	---	---	---	45	507	310	53	78
13	---	---	---	---	---	---	---	75	507	289	52	66
14	---	---	---	---	---	---	---	75	533	283	52	57
15	---	---	---	---	---	---	---	76	555	279	51	57
16	---	---	---	---	---	---	---	363	549	274	48	57
17	---	---	---	---	---	---	---	665	512	271	47	57
18	---	---	---	---	---	---	---	703	487	269	47	57
19	---	---	---	---	---	---	---	721	487	206	47	57
20	---	---	---	---	---	---	---	721	487	159	47	81
21	---	---	---	---	---	---	---	711	455	160	47	102
22	---	---	---	---	---	---	---	705	426	152	47	102
23	---	---	---	---	---	---	---	699	415	144	76	102
24	---	---	---	---	---	---	---	696	415	142	102	102
25	---	---	---	---	---	---	---	685	412	141	102	101
26	---	---	---	---	---	---	---	682	409	119	104	100
27	---	---	---	---	---	---	---	687	406	104	104	74
28	---	---	---	---	---	---	---	689	404	106	104	54
29	---	---	---	---	---	---	---	688	404	104	103	54
30	---	---	---	---	---	---	---	687	404	104	87	54
31	---	---	---	---	---	---	---	737	---	104	75	---
TOTAL	---	---	---	---	---	---	---	11605	16345	7756	2223	2245
MEAN	---	---	---	---	---	---	---	374	545	250	71.7	74.8
MAX	---	---	---	---	---	---	---	737	775	404	104	102
MIN	---	---	---	---	---	---	---	45	404	104	47	54
AC-FT	---	---	---	---	---	---	---	23020	32420	15380	4410	4450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1992, BY WATER YEAR (WY)

MEAN	58.9	39.5	29.1	26.4	25.3	28.4	58.3	406	703	339	127	85.2
MAX	199	137	52.7	47.8	57.2	71.7	297	743	1484	1081	317	196
(WY)	1985	1983	1984	1962	1971	1960	1946	1969	1983	1975	1983	1983
MIN	28.9	11.6	8.47	7.92	6.10	6.54	7.37	91.6	237	65.9	34.1	31.5
(WY)	1978	1971	1982	1978	1977	1977	1977	1977	1954	1940	1940	1946

SUMMARY STATISTICS	FOR 1994 WATER YEAR*		WATER YEARS 1940 - 1992	
ANNUAL MEAN	--		161a	
HIGHEST ANNUAL MEAN	--		281	1983
LOWEST ANNUAL MEAN	--		82.9	1977
HIGHEST DAILY MEAN	775	Jun 1	2180	Jun 7 1957
LOWEST DAILY MEAN	45	May 1-12	1.0	Sep 15,16 1983
ANNUAL SEVEN-DAY MINIMUM	--		5.7	Nov 7 1970
INSTANTANEOUS PEAK FLOW	784	Jun 2	2530b	Jun 7 1957#
INSTANTANEOUS PEAK STAGE	3.94	Jun 2	6.76c	Jun 12 1965#
ANNUAL RUNOFF (AC-FT)	--		116600	
10 PERCENT EXCEEDS	--		507	
50 PERCENT EXCEEDS	--		44	
90 PERCENT EXCEEDS	--		14	

* During period of operation.
\# For period of record through 1993.
a Unadjusted.
b From rating curve extended above 1,500 ft³/s.
c From floodmarks, site and datum then in use.

09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°03'15", long 110°23'52", in NE¼ NW¼ NE¼ 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 current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313. Prior to Oct. 1, 1978, published as East Fork of Smith Fork near Roberton.

REVISED RECORDS.--WSP 979: Drainage area.

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

REMARKS.--Estimated daily discharges: May 1 to June 14 and Aug. 20 to Sept. 16. Records fair except those for estimated daily discharges, which are 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.

COOPERATION.--Records provided by Office of the Wyoming State Engineer and reviewed by the Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	11	150	75	22	20
2	---	---	---	---	---	---	---	11	173	66	22	20
3	---	---	---	---	---	---	---	11	173	66	22	20
4	---	---	---	---	---	---	---	11	173	66	22	20
5	---	---	---	---	---	---	---	11	173	76	21	20
6	---	---	---	---	---	---	---	11	173	95	21	25
7	---	---	---	---	---	---	---	11	160	94	21	30
8	---	---	---	---	---	---	---	11	160	92	21	28
9	---	---	---	---	---	---	---	11	160	90	23	23
10	---	---	---	---	---	---	---	12	140	90	21	20
11	---	---	---	---	---	---	---	12	130	88	21	20
12	---	---	---	---	---	---	---	12	120	81	21	20
13	---	---	---	---	---	---	---	13	120	66	21	19
14	---	---	---	---	---	---	---	13	113	66	21	20
15	---	---	---	---	---	---	---	13	114	66	21	20
16	---	---	---	---	---	---	---	13	115	66	20	20
17	---	---	---	---	---	---	---	13	119	66	19	20
18	---	---	---	---	---	---	---	100	119	66	20	20
19	---	---	---	---	---	---	---	120	119	57	20	20
20	---	---	---	---	---	---	---	120	119	38	20	19
21	---	---	---	---	---	---	---	120	130	38	20	18
22	---	---	---	---	---	---	---	120	144	38	20	18
23	---	---	---	---	---	---	---	120	144	38	20	18
24	---	---	---	---	---	---	---	120	142	39	20	18
25	---	---	---	---	---	---	---	130	142	38	20	18
26	---	---	---	---	---	---	---	150	142	34	20	18
27	---	---	---	---	---	---	---	150	140	25	20	17
28	---	---	---	---	---	---	---	150	118	25	20	17
29	---	---	---	---	---	---	---	150	83	24	20	18
30	---	---	---	---	---	---	---	155	82	21	20	18
31	---	---	---	---	---	---	---	160	---	21	20	---
TOTAL	---	---	---	---	---	---	---	2065	4090	1811	640	602
MEAN	---	---	---	---	---	---	---	66.6	136	58.4	20.6	20.1
MAX	---	---	---	---	---	---	---	160	173	95	23	30
MIN	---	---	---	---	---	---	---	11	82	21	19	17
AC-FT	---	---	---	---	---	---	---	4100	8110	3590	1270	1190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1971, BY WATER YEAR (WY)

MEAN	15.9	10.9	8.10	7.15	7.19	8.00	20.5	126	216	88.9	33.7	19.6
MAX	34.8	19.0	16.9	16.4	13.4	15.0	90.0	201	430	269	120	59.8
(WY)	1962	1952	1966	1966	1966	1943	1946	1952	1965	1965	1965	1965
MIN	5.21	5.50	2.11	1.34	1.55	2.14	5.01	31.6	59.3	15.9	6.64	6.68
(WY)	1957	1957	1963	1963	1963	1963	1970	1953	1954	1940	1940	1956

SUMMARY STATISTICS	FOR 1994 WATER YEAR*		WATER YEARS 1939 - 1971	
ANNUAL MEAN	--		47.1	
HIGHEST ANNUAL MEAN	--		88.9	1965
LOWEST ANNUAL MEAN	--		25.4	1954
HIGHEST DAILY MEAN	173	Jun 2-6	1030	Jun 10 1965
LOWEST DAILY MEAN	11	May 1-9	1.0	Dec 17 1962
ANNUAL SEVEN-DAY MINIMUM	--		1.0	Dec 17 1962
INSTANTANEOUS PEAK FLOW	173	Jun 2	1450	Jun 10 1965#
INSTANTANEOUS PEAK STAGE	4.81	Jun 2	6.75	Jun 10 1965#
ANNUAL RUNOFF (AC-FT)	--		34160	
10 PERCENT EXCEEDS	148		140	
50 PERCENT EXCEEDS	23		13	
90 PERCENT EXCEEDS	13		5.6	

* During period of operation.
\# For period of record through 1994.

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UT

LOCATION.--Lat 40°54'23", long 109°25'15", in NW¼NE¼ sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, at Flaming Gorge Dam on Green River, 1.8 mi southwest of Dutch John, and 4.9 mi northeast of Greendale.

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

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

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

GAGE.--Water-stage recorder. Datum of gage is 5,871 ft above sea level, (levels by Bureau of Reclamation). Prior to Jan. 1, 1964, on left bank 600 ft upstream from face of dam.

REMARKS.--Records good. Reservoir is formed by concrete arch-type dam; storage began Nov. 1, 1962; mass concrete of dam completed Nov. 15, 1962. Total capacity, 3,789,000 acre-ft, consisting of the following: Dead storage, 39,700 acre-ft below elevation 5,740 ft; inactive usable storage, 233,500 acre-ft between elevations 5,740 ft and 5,871 ft; active usable storage, 3,516,000 acre-ft between elevations 5,871 ft and 6,040 ft (top of conservation pool). Reservoir is used for flood control, storage replacement to meet downstream requirements under the Colorado River Compact of 1922, and power development. Figures given herein represent usable contents. Transbasin diversions and diversions for irrigation above station.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 3,911,000 acre-ft July 13, 1983, elevation, 6,043.80 ft; minimum, 582,900 acre-ft Apr. 26, 1965, elevation, 5908.90 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,469,000 acre-ft Oct. 1, elevation, 6,033.14 ft; minimum observed, 2,887,000 acre-ft Sept. 30, elevation, 6,017.43 ft.

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

6,015	2,804,000	6,030	3,346,000
6,020	2,977,000	6,034	3,503,000
6,025	3,157,000		

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3469	3449	3382	3316	3276	3247	3258	3271	3131	3059	3026	2959
2	3468	3446	3380	3315	3274	3247	3259	3271	3124	3058	3025	2957
3	3467	3443	3378	3313	3273	3247	3259	3270	3116	3058	3023	2954
4	3466	3442	3377	3312	3271	3248	3260	3268	3110	3058	3022	2951
5	3465	3438	3375	3311	3270	3250	3260	3267	3104	3058	3020	2949
6	3464	3437	3374	3309	3270	3251	3261	3266	3097	3057	3019	2946
7	3465	3436	3372	3308	3269	3251	3260	3264	3089	3057	3017	2944
8	3465	3433	3369	3306	3268	3251	3259	3264	3083	3056	3015	2941
9	3464	3431	3367	3305	3267	3251	3260	3262	3077	3054	3013	2939
10	3463	3428	3365	3303	3266	3252	3261	3260	3074	3053	3012	2936
11	3463	3425	3364	3301	3265	3253	3262	3258	3070	3052	3010	2934
12	3462	3422	3362	3299	3264	3254	3262	3255	3067	3050	3008	2931
13	3462	3419	3359	3298	3263	3254	3263	3251	3065	3049	3006	2928
14	3462	3417	3357	3297	3262	3254	3264	3247	3064	3048	3004	2925
15	3461	3415	3355	3296	3261	3255	3265	3242	3063	3047	3002	2923
16	3461	3412	3353	3295	3260	3255	3266	3238	3063	3046	3000	2920
17	3462	3410	3350	3293	3259	3255	3267	3230	3063	3045	2997	2917
18	3461	3408	3348	3292	3258	3256	3268	3224	3064	3044	2995	2914
19	3463	3406	3346	3290	3257	3256	3269	3216	3064	3043	2992	2912
20	3461	3403	3343	3289	3257	3257	3268	3209	3065	3041	2990	2909
21	3460	3402	3340	3288	3255	3257	3270	3202	3064	3040	2987	2907
22	3460	3400	3338	3287	3254	3258	3270	3195	3064	3039	2985	2905
23	3460	3398	3335	3286	3252	3258	3273	3188	3065	3038	2982	2902
24	3460	3395	3334	3285	3251	3258	3273	3182	3065	3036	2980	2900
25	3460	3394	3332	3284	3249	3257	3272	3175	3064	3036	2977	2897
26	3459	3392	3330	3282	3249	3257	3272	3170	3063	3035	2975	2895
27	3458	3390	3329	3281	3248	3257	3272	3161	3062	3034	2972	2892
28	3457	3389	3326	3279	3247	3257	3271	3156	3062	3032	2969	2890
29	3455	3387	3323	3278	---	3257	3271	3150	3061	3031	2966	2889
30	3454	3384	3320	3278	---	3257	3271	3143	3060	3029	2964	2887
31	3452	---	3317	3277	---	3257	---	3137	---	3028	2962	---
MAX	3470	3450	3380	3320	3280	3260	3270	3270	3130	3060	3030	2960
MIN	3450	3380	3320	3280	3250	3250	3260	3140	3060	3030	2960	2890
(#)	6032.71	6030.99	6029.25	6028.19	6027.40	6027.67	6028.03	6024.45	6022.34	6021.44	6019.56	6017.43
(*)	-19	-68	-67	-40	-30	+10	+14	-134	-77	-32	-66	-75

CAL YR 1993 . . . . . (*) +303
WTR YR 1994 . . . . . (*) -584

(#) Elevation, in feet, at end of month.
(*) Change in contents, in thousands of acre-feet.

09234500 GREEN RIVER NEAR GREENDALE, UT

LOCATION.--Lat 40°54'30", long 109°25'20", in NW¼NW¼SE¼ 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 mouth.

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 sea level. Prior to Sept. 2, 1959, water-stage recorder at site 2.2 mi upstream at different datum. Sept. 3, 1959, to Sept. 30, 1985, at datum 5.0 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Flaming Gorge Reservoir 0.5 mi upstream, beginning Nov. 1, 1962 (see station 09234400).

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,720 ft³/s June 6, gage height, 11.71 ft; minimum daily discharge, 909 ft³/s June 17-19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1340	2620	2580	2190	1970	1660	1080	1730	4660	1090	1610	1540
2	1400	2480	2570	2130	1970	1330	1090	1740	4670	1090	1610	1540
3	1330	2460	2580	2430	1970	1110	1110	1730	4670	1120	1610	1550
4	1310	2380	2240	2430	2080	1120	1070	1700	4670	1120	1680	1550
5	1320	2450	2460	2420	1900	1110	1290	1740	4670	1100	1720	1550
6	1320	2230	2620	2420	1740	1050	1330	1740	4680	1100	1680	1590
7	1320	1580	2390	2420	1980	1110	1370	1740	4670	1230	1690	1560
8	1320	2540	2580	2170	1880	1160	1340	1730	4080	1340	1610	1560
9	1360	2170	2570	1800	1930	1310	1080	1750	3670	1340	1580	1560
10	1330	2410	2580	2460	1890	1160	1090	2270	3260	1350	1580	1560
11	1310	2330	2580	2490	1930	1160	1090	2770	2860	1330	1580	1560
12	1320	2650	2580	2120	1970	1120	1090	3350	2480	1330	1480	1560
13	1320	2470	2590	2140	1750	1110	1090	3970	1890	1330	1470	1560
14	1320	1820	2590	2140	1900	1090	1080	3950	1630	1420	1470	1570
15	1330	2630	2580	1760	1900	1080	1090	3950	1260	1430	1490	1560
16	1340	2520	2590	1780	1900	1080	1110	4310	917	1430	1490	1560
17	1320	2460	2580	2040	1930	1070	1120	4620	909	1420	1600	1550
18	1350	2510	2580	2120	1950	1070	1080	4620	909	1420	1600	1550
19	1350	2360	2580	2000	2040	1060	1080	4620	909	1440	1570	1560
20	1320	2480	2590	2120	1750	1080	1640	4630	911	1440	1560	1560
21	1200	1750	2590	2140	2140	1080	1570	4630	913	1430	1570	1560
22	1190	2350	2590	1740	2120	1080	1590	4630	967	1430	1580	1560
23	1190	2520	2590	1780	2260	1070	1620	4630	914	1430	1570	1560
24	1190	2520	2160	2120	2110	1070	1620	4630	911	1440	1580	1540
25	1190	2290	2160	2020	1930	1070	1660	4640	910	1420	1580	1550
26	1180	2270	2580	2120	1870	1070	1760	4200	911	1430	1580	1570
27	1570	2480	2580	2140	1740	1080	1800	4650	910	1430	1680	1580
28	1570	1730	3020	2140	1900	1070	1870	4650	911	1430	1650	1550
29	1870	2540	3040	1760	---	1070	1750	4650	911	1440	1650	1550
30	1880	2480	3050	1810	---	1080	1750	4660	1090	1600	1480	1570
31	1860	---	2720	2090	---	1090	---	4660	---	1610	1500	---
TOTAL	42520	70480	80090	65440	54400	34870	40310	109290	67723	41960	49100	46740
MEAN	1372	2349	2584	2111	1943	1125	1344	3525	2257	1354	1584	1558
MAX	1880	2650	3050	2490	2260	1660	1870	4660	4680	1610	1720	1590
MIN	1180	1580	2160	1740	1740	1050	1070	1700	909	1090	1470	1540
AC-FT	84340	139800	158900	129800	107900	69160	79950	216800	134300	83230	97390	92710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1994, BY WATER YEAR (WY)

MEAN	1620	1671	1773	1738	1759	1616	2043	2815	3537	2599	1928	1602
MAX	3911	3655	3626	4145	4090	3818	6288	9610	11420	10130	5055	3729
(WY)	1983	1983	1973	1985	1984	1977	1962	1952	1957	1983	1983	1983
MIN	128	90.0	268	367	442	106	134	130	125	104	102	113
(WY)	1964	1963	1963	1963	1955	1963	1963	1963	1963	1963	1963	1963

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1951 - 1994	
ANNUAL TOTAL	588314		702923			
ANNUAL MEAN	1612		1926		2059	
HIGHEST ANNUAL MEAN					4270	1983
LOWEST ANNUAL MEAN					231	1963
HIGHEST DAILY MEAN	4620	Jun 2	4680	Jun 6	19200	Jun 12 1957
LOWEST DAILY MEAN	884	Jul 16	909	Jun 17	40	Nov 13 1962
ANNUAL SEVEN-DAY MINIMUM	886	Jul 16	911	Jun 23	57	Nov 13 1962
ANNUAL RUNOFF (AC-FT)	1167000		1394000		1492000	
10 PERCENT EXCEEDS	2600		2680		3860	
50 PERCENT EXCEEDS	1190		1620		1580	
90 PERCENT EXCEEDS	930		1080		660	

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1956 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1956 to September 1959, October 1963 to current year.
WATER TEMPERATURES: October 1956 to September 1959, October 1963 to current year.
SEDIMENT DATA: October 1956 to September 1959.

INSTRUMENTATION.--Water-quality monitor since December 1986.

REMARKS.--Storage in Flaming Gorge Reservoir began on Nov. 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 seperate shelter 0.6 mi downstream from Flaming Gorge Dam.

EXTREMES FOR PERIOD OF DAILY RECORD.--(water years 1957-62, 1964 to current year)
SPECIFIC CONDUCTANCE (water years 1957-58, 1960-62): Maximum daily, 1,340 microsiemens Aug. 30, 1961; minimum daily, 325 microsiemens June 2, 1961.
WATER TEMPERATURES (water years 1957-59): Maximum, 24.0°C July 24, 25, 1959; minimum, 0.0°C on many days during winter period each year.
SPECIFIC CONDUCTANCE (water years 1964 to current year): Maximum daily, 1,060 microsiemens Nov. 9, 1971; minimum recorded, 550 microsiemens June 25, July 4, 1987.
WATER TEMPERATURES: Maximum recorded, 17.2°C July 9, 1989; minimum recorded 1.6°C Mar. 1, 2, 1987.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 851 microsiemens Dec. 21; minimum recorded, 663 microsiemens Apr. 24.
WATER TEMPERATURES: Maximum daily, 14.5°C June 27; minimum daily, 5.4°C Dec. 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	BAROMETRIC PRESSURE (MM OF HG)	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
NOV , 1993										
04...	1300	2980	770	8.3	6.0	10.0	10.4	622	250	59
JAN , 1994										
12...	1430	1760	810	8.1	-1.0	4.0	15.6	633	270	66
MAR										
17...	1100	864	780	8.5	15.0	4.0	11.3	619	260	63
MAY										
20...	1000	4700	740	8.5	16.5	9.0	9.5	620	250	62
JUL										
29...	1515	1670	742	8.5	31.0	13.0	9.7	700	230	57

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)
NOV , 1993										
04...	24	62	35	2	2.7	220	19	0.30	2.8	480
JAN , 1994										
12...	25	65	34	2	2.9	220	24	0.30	3.8	524
MAR										
17...	25	63	34	2	2.6	220	19	0.30	2.9	500
MAY										
20...	24	60	34	2	2.6	200	18	0.30	2.7	480
JUL										
29...	22	55	34	2	2.3	200	18	0.30	2.3	486

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
NOV , 1993									
04...	481	0.65	3860	0.023	0.023	0.023	0.20	0.20	0.22
JAN , 1994									
12...	497	0.71	2490	0.096	0.096	0.096	--	<0.20	--
MAR									
17...	491	0.68	1170	0.057	0.057	0.057	0.20	0.20	0.26
MAY									
20...	463	0.65	6090	--	--	<0.005	0.30	0.30	0.30
JUL									
29...	451	0.66	2190	0.020	0.020	0.020	0.20	0.20	0.22

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	SELENIUM, DISSOLVED (UG/L AS SE)
NOV , 1993		
04...	1300	<1
JAN , 1994		
12...	1430	<1
MAR		
17...	1100	<1
MAY		
20...	1000	<1
JUL		
29...	1515	<1

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	809	754	764	773	764	768	774	771	773	843	809	824
2	840	754	765	---	---	---	774	770	772	837	800	824
3	825	755	768	---	---	---	773	771	773	833	796	809
4	810	755	762	---	---	---	775	771	773	833	805	814
5	842	757	767	---	---	---	774	772	773	839	818	827
6	785	760	765	---	---	---	775	772	773	829	812	821
7	815	762	773	---	---	---	776	771	774	831	797	815
8	765	761	763	---	---	---	774	771	772	834	803	817
9	833	762	778	---	---	---	772	770	771	834	808	823
10	831	758	765	780	774	778	771	769	770	828	791	817
11	843	761	766	---	---	---	770	769	770	836	783	809
12	832	760	767	779	776	777	771	766	768	841	791	813
13	824	760	766	---	---	---	828	765	770	818	794	809
14	765	760	762	---	---	---	821	766	800	836	787	805
15	766	760	763	---	---	---	823	797	813	831	781	805
16	778	764	766	---	---	---	827	800	815	831	788	814
17	767	764	766	---	---	---	827	794	813	833	783	805
18	833	764	770	---	---	---	836	794	818	831	768	803
19	838	764	780	---	---	---	843	801	826	833	783	810
20	787	763	766	---	---	---	842	801	822	832	783	812
21	810	767	771	---	---	---	851	796	825	825	763	803
22	818	768	773	---	---	---	841	793	821	824	768	801
23	785	768	770	---	---	---	843	800	829	827	778	804
24	848	767	777	---	---	---	840	798	822	830	791	820
25	822	767	773	---	---	---	839	798	817	841	805	824
26	775	767	770	---	---	---	837	798	817	848	795	826
27	772	767	770	---	---	---	843	805	826	833	799	818
28	802	763	771	---	---	---	835	804	821	832	760	805
29	769	766	767	---	---	---	828	796	814	822	762	797
30	769	767	768	---	---	---	834	795	816	819	766	799
31	773	768	770	---	---	---	838	795	820	828	771	800
MONTH	848	754	768	---	---	---	851	765	799	848	760	812

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	831	763	807	821	785	808	839	788	818	788	726	747
2	831	766	807	818	722	764	829	770	805	803	723	749
3	826	764	806	818	719	741	818	772	802	779	719	729
4	823	769	802	723	716	720	828	794	814	736	722	729
5	807	759	782	723	717	720	825	787	805	785	725	737
6	817	748	788	792	710	721	821	788	803	787	724	754
7	817	779	805	792	709	722	817	787	803	790	726	754
8	822	772	798	814	712	728	813	733	796	789	730	743
9	822	744	790	755	719	724	824	767	798	781	718	737
10	824	759	796	727	715	722	826	792	811	789	726	740
11	826	797	812	820	720	730	823	768	795	780	719	740
12	814	756	794	727	720	724	803	721	772	756	725	736
13	814	756	790	728	720	724	797	721	759	733	718	727
14	811	747	789	825	721	780	778	740	762	738	718	731
15	808	745	779	818	769	790	780	716	759	736	720	729
16	807	757	785	822	771	800	784	713	754	755	717	729
17	808	788	797	850	780	819	781	715	746	731	722	727
18	817	767	803	850	805	829	772	707	738	733	725	729
19	815	756	797	845	819	833	756	688	720	735	723	728
20	817	754	792	843	807	831	753	668	712	748	721	726
21	818	742	794	840	795	814	752	691	709	731	723	728
22	822	746	798	849	799	825	716	666	693	733	723	728
23	826	758	799	843	802	823	728	665	685	731	724	728
24	825	746	798	847	798	819	737	663	699	728	715	725
25	825	784	799	847	788	818	748	664	706	761	724	734
26	809	748	783	829	786	806	758	678	705	761	724	741
27	816	791	807	840	791	819	823	696	751	730	721	727
28	817	801	810	835	785	806	833	760	786	731	718	723
29	---	---	---	829	795	819	778	723	748	727	718	723
30	---	---	---	828	779	802	796	724	747	722	712	719
31	---	---	---	832	777	803	---	---	---	720	709	716
MONTH	831	742	797	850	709	780	839	663	760	803	709	733

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	720	713	716	792	737	768	756	747	751	---	---	---
2	718	709	715	795	730	767	760	751	754	---	---	---
3	713	702	710	771	730	747	760	750	754	763	742	749
4	716	705	710	775	730	748	757	748	752	787	738	745
5	712	704	708	773	731	746	758	747	752	784	736	753
6	711	702	707	746	733	739	757	748	752	759	746	750
7	711	703	706	745	733	738	757	748	752	763	742	749
8	734	700	707	782	737	749	755	749	752	787	740	747
9	705	698	701	789	738	759	755	751	753	770	737	752
10	722	698	702	779	736	755	763	751	756	787	737	758
11	704	697	700	774	731	754	763	753	757	765	739	745
12	707	699	702	783	738	758	764	757	759	773	741	759
13	736	699	711	788	740	765	762	757	760	773	741	764
14	742	702	713	792	737	766	767	754	761	792	742	769
15	762	708	734	781	740	768	804	752	772	---	---	---
16	748	709	724	784	738	768	811	757	783	792	738	768
17	741	709	720	803	738	765	824	752	781	841	731	771
18	715	710	713	791	734	759	806	751	776	812	720	768
19	720	693	711	790	733	749	795	751	769	790	748	763
20	724	687	718	788	733	753	803	757	782	790	751	764
21	724	718	721	767	729	746	815	758	791	787	726	761
22	730	720	723	765	725	742	812	755	784	811	753	774
23	731	705	721	756	734	743	807	752	781	785	717	763
24	710	707	709	745	733	737	817	755	792	781	715	755
25	766	706	731	750	733	741	813	751	785	780	707	750
26	780	707	737	752	741	745	847	752	782	778	709	751
27	773	717	738	755	740	746	764	741	750	774	709	750
28	773	725	751	755	739	745	765	741	752	778	711	749
29	750	736	740	753	740	745	---	---	---	772	742	755
30	782	732	755	751	743	747	---	---	---	766	737	752
31	---	---	---	750	746	748	---	---	---	---	---	---
MONTH	782	687	718	803	725	752	---	---	---	---	---	---

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.3	9.5	5.9	---	---	---	---	---	11.2	13.2	13.2	13.1
2	11.8	9.4	5.9	---	---	---	---	---	10.9	13.4	13.1	12.7
3	11.6	9.2	5.8	---	---	---	---	---	10.9	13.3	12.6	13.3
4	11.8	9.2	5.7	---	---	---	---	---	11.3	13.5	12.3	13.1
5	11.6	9.0	5.6	---	---	---	---	7.6	11.4	13.5	12.7	12.8
6	11.4	8.9	5.5	---	---	---	---	8.5	11.6	13.4	12.7	12.6
7	11.2	8.7	5.4	---	---	---	---	7.0	12.1	14.0	12.3	13.2
8	11.0	8.6	---	---	---	---	---	7.9	12.4	13.2	12.7	13.5
9	10.9	8.5	---	---	---	---	---	7.9	12.4	13.6	13.0	13.4
10	11.3	8.3	---	---	---	---	---	7.8	12.7	13.7	12.5	13.1
11	11.1	8.2	---	---	---	---	---	8.0	12.9	13.4	12.2	12.6
12	11.1	8.2	---	---	---	---	---	8.1	12.9	13.2	12.1	12.1
13	11.1	8.1	---	---	---	---	---	9.4	13.4	13.2	12.7	11.9
14	10.9	8.0	---	---	---	---	---	9.6	13.9	13.1	12.6	12.7
15	10.8	7.9	---	---	---	---	---	9.0	13.6	13.1	12.8	13.8
16	10.6	7.7	---	---	---	---	---	9.0	13.4	13.1	13.0	13.5
17	10.4	7.6	---	---	---	---	---	9.3	13.6	12.9	13.1	13.8
18	10.4	7.6	---	---	---	---	---	9.1	13.8	12.9	13.8	14.0
19	10.4	7.4	---	---	---	---	---	9.0	13.6	12.8	13.7	14.0
20	10.5	7.3	---	---	---	---	---	---	13.4	12.7	12.3	13.7
21	9.9	7.1	---	---	---	---	---	---	13.6	12.6	12.2	13.5
22	9.7	7.0	---	---	---	---	---	---	13.9	13.1	12.2	---
23	9.9	7.0	---	---	---	---	---	9.4	13.4	13.4	13.0	14.1
24	9.9	6.7	---	---	---	---	---	9.5	13.4	13.4	12.6	13.9
25	9.8	6.5	---	---	---	---	---	9.3	13.6	13.2	12.9	13.8
26	9.8	6.3	---	---	---	---	---	9.0	14.3	13.1	12.8	14.0
27	9.8	6.2	---	---	---	---	---	9.9	14.5	13.0	12.9	13.5
28	9.9	6.1	---	---	---	---	---	10.3	13.7	13.4	13.2	13.4
29	9.9	6.1	---	---	---	---	---	10.2	13.6	13.0	13.5	13.5
30	9.6	6.0	---	---	---	---	---	10.4	13.7	13.1	13.8	13.1
31	9.3	---	---	---	---	---	---	10.5	---	13.1	13.5	---
MEAN	10.6	7.7	---	---	---	---	---	---	13.0	13.2	12.8	---

09261000 GREEN RIVER NEAR JENSEN, UT

LOCATION.--Lat 40°24'34", long 109°14'05", in NE¼SW¼SE¼ 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). WRD UT-73: 1972. WDR UT-76-1: Drainage area.

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

REMARKS.--Records good except for the period Apr. 20 to July 28, which are fair. Transbasin diversions and diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234400) 93.1 mi upstream beginning Nov. 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, 11,800 ft³/s May 20, gage height, 7.46 ft; minimum daily discharge, 1,450 ft³/s Sept. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1630	2370	2890	3280	2120	3800	1960	5040	10600	1710	1640	1490
2	1580	2870	2990	2760	2490	3450	1960	5060	10800	1730	1640	1490
3	1540	2920	3030	2550	2350	3550	1900	4780	10800	1710	1630	1520
4	1610	2890	2980	2750	2340	3290	1980	4630	10200	1670	1620	1530
5	1540	2960	2840	2870	2440	3290	2010	4870	9660	1610	1690	1520
6	1510	2970	2780	2900	2230	3880	2090	4950	9410	1550	1760	1520
7	1550	2800	2950	2850	2180	4000	2410	4960	9210	1520	1740	1550
8	1620	2360	2770	2860	2220	3630	2640	5910	8840	1510	1720	1530
9	1670	2650	2980	2700	2280	3480	2500	7140	7930	1570	1730	1450
10	1690	2560	3050	2310	2210	3130	2440	7550	7120	1610	1660	1490
11	1820	2690	3010	2590	2320	2990	2250	7900	6230	1580	1610	1510
12	1890	2750	3070	2830	2230	2630	2200	8490	5500	1580	1640	1520
13	1970	3120	3050	2470	2220	2470	2170	9050	4960	1580	1550	1560
14	1980	3260	2930	2540	2170	2460	2140	10000	4450	1590	1500	1640
15	1930	2780	2960	2540	2200	2510	2100	10900	3600	1580	1490	1580
16	1970	2870	3000	2440	2220	2510	2020	11000	3360	1620	1510	1570
17	2090	3160	2970	2200	2250	2420	2240	11000	3020	1660	1550	1560
18	2240	3030	2890	2240	2390	2420	2570	11200	2640	1670	1610	1560
19	2410	3000	2830	2450	2490	2460	2740	11500	2460	1650	1640	1570
20	2440	2760	2750	2530	2560	2700	3400	11700	2340	1640	1640	1620
21	2300	2740	2950	2390	2360	2590	4330	11700	2190	1610	1620	1620
22	2320	2420	2930	2530	2420	2550	5450	11600	2150	1590	1600	1600
23	2100	2630	2930	2440	2540	2800	6050	11300	2170	1580	1610	1610
24	1990	2940	2880	2140	2620	2540	6920	10800	2250	1580	1600	1620
25	1900	2800	2640	2220	2570	2420	7710	10600	2460	1580	1600	1590
26	1830	2600	2510	2530	2570	2560	8380	10400	2360	1590	1590	1590
27	1810	2680	2760	2410	2800	2410	8290	9990	2090	1590	1610	1580
28	1850	2660	3010	2530	3450	2280	7320	10300	2060	1460	1650	1610
29	2150	2350	3370	2520	---	2280	6350	10400	1950	1490	1630	1630
30	2240	2610	3510	2460	---	2140	5610	10500	1810	1490	1660	1630
31	2370	---	3510	2080	---	2000	---	10600	---	1560	1600	---
TOTAL	59540	83200	91720	78910	67240	87640	112130	275820	154620	49460	50340	46860
MEAN	1921	2773	2959	2545	2401	2827	3738	8897	5154	1595	1624	1562
MAX	2440	3260	3510	3280	3450	4000	8380	11700	10800	1730	1760	1640
MIN	1510	2350	2510	2080	2120	2000	1900	4630	1810	1460	1490	1450
AC-FT	118100	165000	181900	156500	133400	173800	222400	547100	306700	98100	99850	92950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1994, BY WATER YEAR (WY)

MEAN	2125	2174	2139	2111	2328	2970	5592	11200	11440	4758	2505	1909
MAX	5022	4833	4414	4844	4839	5765	15360	24110	26440	16110	6463	4159
(WY)	1983	1987	1987	1985	1986	1986	1962	1984	1957	1983	1983	1983
MIN	346	593	528	598	721	949	2029	4220	3129	498	453	505
(WY)	1964	1963	1963	1955	1955	1963	1963	1990	1992	1963	1963	1963

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1947 - 1994	
ANNUAL TOTAL	1541820		1157480			
ANNUAL MEAN	4224		3171		4275	
HIGHEST ANNUAL MEAN					7784	1984
LOWEST ANNUAL MEAN					1458	1963
HIGHEST DAILY MEAN	20000	May 28	11700	May 20	38500	May 18 1984
LOWEST DAILY MEAN	1120	Jan 5	1450	Sep 9	260	Aug 2 1963
ANNUAL SEVEN-DAY MINIMUM	1220	Jan 5	1510	Sep 5	276	Jul 29 1963
ANNUAL RUNOFF (AC-FT)	3058000		2296000		3097000	
10 PERCENT EXCEEDS	12600		7130		10500	
50 PERCENT EXCEEDS	2510		2420		2690	
90 PERCENT EXCEEDS	1510		1580		1050	

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER-QUALITY RECORDS

LOCATION.--Daily specific conductance and temperature data collected at bridge on U.S. Highway 40, at town of Jensen, 8 mi downstream from gaging station.

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1947 to September 1952, October 1961 to current year.
WATER TEMPERATURES: March 1949 to September 1959, October 1961 to current year.
SUSPENDED-SEDIMENT DISCHARGE: May 1948 to September 1979.

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, 2,330 microsiemens Sept. 10, 1963; minimum daily, 176 microsiemens May 24, 1963.
WATER TEMPERATURES: Maximum, 30.0°C July 11, 1958; minimum, 0.0°C on many days during winter period each year.
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 Sept. 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.--
SPECIFIC CONDUCTANCE: Maximum daily, 900 microsiemens July 29; minimum observed, 395 microsiemens May 19.
WATER TEMPERATURES: Maximum daily, 28.0°C July 23, 25, 26; minimum daily, 0.0°C Feb. 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)
OCT , 1993						
07...	1215	1500	730	8.6	17.0	14.0
MAR , 1994						
18...	0930	2560	750	8.6	14.0	9.0
MAY						
19...	1440	11700	395	8.3	23.0	14.5
JUL						
28...	1200	1590	740	8.5	33.0	22.5
SEP						
21...	0945	1740	770	8.5	18.5	15.0

DATE	TIME	SELE-NIUM, DIS-SOLVED (UG/L AS SE)
OCT , 1993		
07...	1215	<1
MAR , 1994		
18...	0930	2
MAY		
19...	1440	<1
JUL		
28...	1200	<1
SEP		
21...	0945	<1

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	820	810	830	840	860	730	530	---	485	500	890	760
2	820	810	840	840	840	730	530	530	490	500	870	---
3	---	800	840	840	710	710	---	540	490	---	870	750
4	810	830	830	840	730	710	520	530	490	500	870	760
5	810	800	---	840	730	720	520	560	---	500	890	760
6	800	810	830	840	---	---	530	520	495	500	860	760
7	800	---	850	850	710	730	550	530	495	500	---	---
8	800	820	840	840	720	730	540	---	490	500	860	760
9	820	830	840	---	710	720	520	530	495	890	---	750
10	---	810	840	840	720	710	---	530	490	---	---	760
11	810	840	840	840	710	710	530	530	490	870	---	---
12	800	830	---	840	710	710	530	520	---	860	---	760
13	820	830	830	850	---	---	530	520	485	860	---	760
14	830	---	830	840	720	730	530	520	485	850	---	760
15	800	820	840	840	710	730	530	---	490	860	---	750
16	800	830	840	---	720	720	540	520	485	880	---	760
17	---	820	850	840	730	730	---	540	490	---	---	780
18	800	840	850	830	720	720	520	530	485	880	---	---
19	800	820	---	840	720	720	540	530	---	860	---	760
20	800	820	840	840	---	---	540	530	485	860	---	760
21	800	---	840	840	720	710	530	520	490	880	---	770
22	810	820	840	830	730	710	540	---	485	880	---	750
23	810	830	840	---	720	730	520	530	500	850	---	750
24	---	830	830	840	740	720	---	490	490	---	---	760
25	800	830	840	840	730	740	530	490	490	860	---	760
26	800	830	---	830	730	740	530	485	---	860	750	750
27	810	840	840	840	---	---	520	485	500	860	750	750
28	810	---	840	840	730	740	530	485	500	740	760	740
29	800	830	840	840	---	740	540	---	500	900	750	750
30	810	810	840	---	---	720	540	485	500	880	760	740
31	---	---	840	850	---	720	---	485	---	---	760	---
MEAN	807	823	839	840	732	723	531	518	491	770	818	756

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	7.0	4.0	2.0	.5	4.5	10.5	---	17.0	25.0	27.0	19.0
2	15.0	6.5	4.0	---	.0	5.0	10.5	11.5	17.5	25.5	27.0	---
3	---	6.5	4.0	2.0	.5	5.0	---	11.5	18.0	---	26.5	20.0
4	14.5	7.0	4.5	2.5	1.0	5.5	10.0	12.0	18.0	25.0	26.0	20.5
5	14.5	6.5	---	2.0	1.5	5.0	10.0	12.0	---	25.5	25.5	19.5
6	14.0	6.5	4.0	2.5	---	---	9.5	12.5	18.5	26.0	25.5	18.5
7	14.0	---	4.0	2.0	2.0	5.5	9.5	12.5	18.5	27.0	---	---
8	14.0	7.0	3.5	2.0	2.0	6.0	10.0	---	19.0	27.0	25.0	19.5
9	13.5	6.5	3.5	---	2.5	6.0	9.0	13.0	19.5	26.5	25.0	20.0
10	---	6.0	3.5	2.5	2.5	6.5	---	13.0	20.0	---	25.5	20.0
11	13.0	6.0	3.0	3.0	2.0	6.5	9.5	12.5	20.5	26.5	25.5	---
12	13.0	5.5	---	2.5	3.0	7.0	10.0	13.0	---	26.0	25.0	19.0
13	12.5	6.0	3.0	2.5	---	---	9.5	13.5	21.0	26.0	25.0	18.0
14	12.5	---	3.0	3.0	3.5	7.0	10.0	14.0	22.0	26.5	---	18.0
15	12.0	6.0	2.5	3.5	3.5	7.5	10.0	---	22.0	27.0	25.0	17.5
16	11.5	6.0	2.5	---	3.0	7.5	9.0	14.0	22.5	27.0	25.5	16.5
17	---	5.5	2.5	3.0	3.5	8.0	---	14.5	22.5	---	25.5	15.5
18	11.0	5.5	2.0	3.0	3.5	8.0	10.0	14.5	23.0	27.5	25.0	---
19	11.0	5.0	---	2.5	4.0	8.5	10.0	15.0	---	27.5	25.0	18.0
20	10.0	5.0	2.5	2.0	---	---	10.5	15.0	23.5	27.0	25.0	16.5
21	10.0	---	2.5	2.0	4.0	8.5	10.5	15.5	23.5	27.5	---	15.0
22	9.5	5.0	2.0	2.5	4.0	8.5	11.0	---	24.0	27.5	24.5	15.5
23	9.0	4.5	2.0	---	4.0	9.0	10.5	15.5	24.0	28.0	24.0	15.5
24	---	4.5	2.5	2.0	4.5	9.5	---	15.5	23.5	---	24.0	16.0
25	8.5	4.5	2.5	1.5	4.5	9.5	11.0	15.0	24.0	28.0	24.5	15.0
26	8.5	4.0	---	1.5	4.5	9.5	11.0	15.5	---	28.0	24.5	16.5
27	7.5	4.5	3.0	1.0	---	---	11.5	15.5	24.5	27.5	24.5	16.5
28	7.5	---	3.0	1.5	4.0	10.0	11.5	16.0	24.5	27.0	---	16.5
29	7.0	4.5	2.5	1.0	---	10.0	11.0	---	25.0	27.0	24.0	14.5
30	7.0	4.0	3.0	---	---	10.5	11.0	16.0	25.0	27.5	24.5	16.5
31	---	---	3.0	.5	---	10.5	---	16.5	---	---	23.5	---
MEAN	11.5	5.5	3.0	2.0	3.0	7.5	10.0	14.0	21.5	27.0	25.0	17.5

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

LOCATION.--Lat 40°35'20", long 109°27'53", in NW¼SE¼NE¼ 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 sea level, 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, 375 ft³/s June 2, 1983, gage height, 2.40 ft; maximum gage height, 3.06 ft May 23, 1980 at different datum; minimum daily, 7.6 ft³/s Feb. 10, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 221 ft³/s May 14, gage height, 1.77 ft; minimum daily discharge, 10.0 ft³/s Feb. 1, 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	18	e12	15	e10	13	15	71	92	25	40	20
2	22	18	11	13	e11	13	15	68	79	26	38	20
3	20	17	11	13	e11	13	15	67	67	26	38	21
4	19	17	11	13	e11	14	17	68	59	26	37	19
5	19	19	11	13	e11	17	17	107	52	25	36	18
6	19	20	11	13	12	14	17	167	48	24	35	18
7	e21	17	11	14	12	13	17	187	46	24	34	18
8	e25	17	11	14	12	13	16	185	44	24	34	18
9	25	17	13	13	12	13	16	187	41	26	36	18
10	24	16	15	13	12	13	17	201	39	26	35	18
11	23	16	16	13	e11	15	16	206	37	25	33	18
12	22	17	15	12	e10	15	16	212	37	25	33	18
13	21	17	14	12	e11	13	17	216	36	25	36	18
14	21	16	14	13	e11	14	20	217	35	25	33	17
15	23	16	14	14	e12	15	23	212	34	24	30	17
16	23	16	14	13	e12	15	29	208	32	24	29	16
17	19	16	14	13	13	15	41	201	31	24	29	16
18	20	16	15	13	14	14	60	184	31	24	28	15
19	19	16	14	13	15	15	77	169	31	23	27	15
20	19	16	16	13	13	14	107	148	33	23	27	15
21	19	15	14	14	13	14	128	124	31	22	26	15
22	21	15	e13	14	13	14	173	109	31	22	25	14
23	22	15	14	13	13	14	195	103	30	33	23	14
24	20	16	e13	12	13	14	196	116	28	41	21	13
25	20	e13	e14	12	14	16	177	119	28	42	20	13
26	20	e11	14	13	16	15	140	113	27	40	20	12
27	19	e11	14	12	13	14	111	95	27	40	20	12
28	21	e11	14	14	13	14	94	94	27	39	21	12
29	21	e12	14	14	---	14	83	92	27	38	22	12
30	20	e12	13	12	---	14	73	80	26	38	22	15
31	18	---	14	e12	---	14	---	79	---	38	21	---
TOTAL	647	469	414	405	344	438	1938	4405	1186	887	909	485
MEAN	20.9	15.6	13.4	13.1	12.3	14.1	64.6	142	39.5	28.6	29.3	16.2
MAX	25	20	16	15	16	17	196	217	92	42	40	21
MIN	18	11	11	12	10	13	15	67	26	22	20	12
AC-FT	1280	930	821	803	682	869	3840	8740	2350	1760	1800	962

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1994, BY WATER YEAR (WY)

MEAN	21.6	18.0	15.8	14.8	14.2	15.3	48.2	143	108	45.5	33.9	24.1
MAX	38.2	29.3	25.4	22.4	21.4	24.4	88.9	209	314	126	51.2	32.6
(WY)	1987	1987	1984	1984	1987	1986	1985	1985	1983	1983	1983	1986
MIN	13.5	12.4	10.2	10.1	10.6	10.8	17.7	50.8	26.8	25.9	20.3	15.7
(WY)	1990	1991	1993	1993	1993	1982	1982	1989	1989	1989	1989	1989

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1980 - 1994	
ANNUAL TOTAL	15924.0		12527			
ANNUAL MEAN	43.6		34.3		42.0	
HIGHEST ANNUAL MEAN					64.5	1983
LOWEST ANNUAL MEAN					23.6	1989
HIGHEST DAILY MEAN	265	May 26	217	May 14	336	Jun 24 1983
LOWEST DAILY MEAN	9.0	Jan 5	10	Feb 1	7.6	Feb 10 1992
ANNUAL SEVEN-DAY MINIMUM	9.7	Jan 24	11	Dec 2	8.8	Feb 7 1992
ANNUAL RUNOFF (AC-FT)	31590		24850		30420	
10 PERCENT EXCEEDS	115		81		95	
50 PERCENT EXCEEDS	21		18		22	
90 PERCENT EXCEEDS	10		12		12	

e Estimated

09266500 ASHLEY CREEK NEAR VERNAL, UT

LOCATION.--Lat 40°34'39", long 109°37'17", in NE¼NW¼NE¼ 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 1913 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 sea level. Prior to Nov. 14, 1917, nonrecording and water-stage recorder at several sites within 1.5 mi of present site at various datums. Nov. 14, 1917 to July 30, 1968, water-stage recorder at site 75 ft downstream at various datums.

REMARKS.--No estimated daily discharges. Records fair. 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 Aug. 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, about 3,500 ft³/s June 11, 1965, gage height, 4.42 ft, datum then in use from rating table extended above 1,060 ft³/s; maximum gage height, 6.09 ft June 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 13	2200	*998	*3.79	No other peak greater than base discharge.			

Minimum daily discharge, 8.3 ft³/s, Mar. 31, Apr. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	22	16	13	15	11	8.8	91	283	92	74	62
2	33	20	16	13	15	12	8.6	83	205	89	71	62
3	33	20	16	23	17	11	9.0	84	176	85	78	65
4	33	20	15	29	14	12	10	87	164	86	77	70
5	34	20	15	19	14	12	9.8	193	149	81	74	65
6	34	18	15	13	13	12	9.4	320	138	78	72	60
7	37	17	15	13	13	11	8.3	386	124	75	69	57
8	37	18	15	13	14	11	8.7	348	119	74	64	57
9	39	19	15	13	14	11	8.6	430	110	75	67	57
10	35	18	15	13	14	11	9.8	547	103	74	70	56
11	34	19	15	13	13	10	8.9	611	101	71	65	54
12	35	20	15	13	12	11	9.2	663	98	70	62	58
13	31	20	15	12	12	10	8.9	699	92	69	61	66
14	27	19	14	13	11	9.4	16	609	90	67	62	70
15	27	18	14	14	15	9.4	16	554	84	66	62	69
16	26	18	14	15	14	9.4	21	540	78	67	62	62
17	24	18	14	15	13	11	27	416	96	66	61	56
18	25	18	14	15	14	13	27	289	112	64	60	51
19	24	18	14	15	13	12	47	248	123	61	62	45
20	25	17	14	15	13	12	75	229	125	61	69	38
21	26	17	14	15	13	11	114	217	132	58	67	35
22	26	18	14	15	12	11	238	223	136	58	65	32
23	26	17	14	15	14	12	297	237	110	58	58	31
24	25	17	14	15	13	10	238	238	108	62	54	29
25	25	17	14	15	13	11	168	231	104	68	55	27
26	25	17	14	15	13	10	141	238	106	62	54	24
27	23	17	14	15	12	11	114	242	103	60	53	15
28	22	16	14	15	12	9.0	106	367	102	58	57	14
29	23	17	13	15	---	9.8	100	273	100	64	60	14
30	21	16	13	15	---	9.8	92	211	96	68	69	18
31	21	---	13	14	---	8.3	---	248	---	68	66	---
TOTAL	889	546	447	466	375	334.1	1955.0	10152	3667	2155	2000	1419
MEAN	28.7	18.2	14.4	15.0	13.4	10.8	65.2	327	122	69.5	64.5	47.3
MAX	39	22	16	29	17	13	297	699	283	92	78	70
MIN	21	16	13	12	11	8.3	8.3	83	78	58	53	14
AC-FT	1760	1080	887	924	744	663	3880	20140	7270	4270	3970	2810
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1994, BY WATER YEAR (WY)												
MEAN	52.3	37.3	28.1	23.7	21.0	19.8	48.0	340	315	125	83.8	66.6
MAX	154	104	64.2	45.0	40.0	36.2	162	739	1051	360	161	230
(WY)	1942	1942	1942	1928	1928	1922	1962	1986	1983	1975	1952	1927
MIN	6.91	5.57	7.74	5.12	4.60	4.54	6.22	71.7	59.1	39.2	16.0	7.81
(WY)	1990	1990	1989	1977	1978	1978	1975	1977	1934	1977	1989	1989

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1920 - 1994	
ANNUAL TOTAL	38045.9		24405.1			
ANNUAL MEAN	104		66.9		97.1	
HIGHEST ANNUAL MEAN					178	1921
LOWEST ANNUAL MEAN					31.5	1977
HIGHEST DAILY MEAN	1440	May 25	699	May 13	1970	Jun 5 1968
LOWEST DAILY MEAN	4.9	Mar 13	8.3	Mar 31	3.5	Jan 3 1977
ANNUAL SEVEN-DAY MINIMUM	5.4	Mar 7	8.9	Apr 7	3.8	Dec 31 1976
ANNUAL RUNOFF (AC-FT)	75460		48410		70350	
10 PERCENT EXCEEDS	255		144		222	
50 PERCENT EXCEEDS	24		25		42	
90 PERCENT EXCEEDS	5.9		11		14	

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 concrete control. Elevation of gage is 9,500 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. 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, 41 ft^3/s June 5, 12, 1990; no flow for extended periods each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e3.6	29	26	5.6	24
2	---	---	---	---	---	---	---	e3.6	29	26	.01	23
3	---	---	---	---	---	---	---	e3.6	29	24	.00	22
4	---	---	---	---	---	---	---	e3.6	29	25	.00	22
5	---	---	---	---	---	---	---	e7.2	29	26	.00	23
6	---	---	---	---	---	---	---	e1.7	29	24	.00	21
7	---	---	---	---	---	---	---	e9.0	29	13	.00	17
8	---	---	---	---	---	---	---	e9.0	29	12	.00	12
9	---	---	---	---	---	---	---	e11	29	13	.00	11
10	---	---	---	---	---	---	---	e.00	29	11	.00	11
11	---	---	---	---	---	---	---	e.00	28	.07	13	11
12	---	---	---	---	---	---	---	e.00	25	.00	28	12
13	---	---	---	---	---	---	---	e.00	23	.00	29	13
14	---	---	---	---	---	---	---	e.00	22	.00	28	14
15	---	---	---	---	---	---	---	e15	22	.00	26	14
16	---	---	---	---	---	---	---	e29	21	.00	26	14
17	---	---	---	---	---	---	---	28	22	.00	26	15
18	---	---	---	---	---	---	---	27	22	.00	15	15
19	---	---	---	---	---	---	---	26	20	.00	.04	14
20	---	---	---	---	---	---	---	26	12	.00	.00	13
21	---	---	---	---	---	---	---	27	.03	.00	.00	13
22	---	---	---	---	---	---	---	29	.01	.00	.00	13
23	---	---	---	---	---	---	---	29	.00	.00	.00	13
24	---	---	---	---	---	---	---	28	.00	6.1	.00	9.1
25	---	---	---	---	---	---	---	27	.00	25	6.5	9.0
26	---	---	---	---	---	---	---	28	.00	25	16	8.8
27	---	---	---	---	---	---	---	28	5.2	25	9.6	8.4
28	---	---	---	---	---	---	---	29	19	25	2.0	8.3
29	---	---	---	---	---	---	---	29	27	25	9.0	9.4
30	---	---	---	---	---	---	---	29	26	23	15	15
31	---	---	---	---	---	---	---	29	---	15	23	---
TOTAL	---	---	---	---	---	---	---	515.30	584.24	369.17	277.75	428.0
MEAN	---	---	---	---	---	---	---	16.6	19.5	11.9	8.96	14.3
MAX	---	---	---	---	---	---	---	29	29	26	29	24
MIN	---	---	---	---	---	---	---	.00	.00	.00	.00	8.3
AC-FT	---	---	---	---	---	---	---	1020	1160	732	551	849

e Estimated

09271550 ASHLEY CREEK BELOW UNION CANAL DIVERSION NEAR JENSEN, UT

LOCATION.--Lat 40°21'29", long 109°23'13", in NW¼SE¼NE¼ sec. 25, T. 5 S., R. 22 E., Uintah County, Hydrologic Unit 14060002, on right bank about 0.5 mi below Union Canal diversion at 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 current year.

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

REMARKS.--Records fair except for estimated daily discharges and daily discharges below 1.0 ft³/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,340 ft³/s May 26, 1993, gage height, 5.22 ft; minimum daily discharge, 0.03 ft³/s Aug. 7, 26, 27, 30, 31, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 365 ft³/s May 14, gage height, 3.49 ft; minumum daily discharge, 0.03 ft³/s Aug. 7, 26, 27, 30, 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	46	27	e18	e31	e50	e14	5.2	25	1.4	.19	.29
2	2.9	37	26	e17	e28	e45	e14	3.2	47	1.7	.12	.64
3	2.5	32	26	e17	e28	e45	e14	2.3	36	.64	.06	1.4
4	3.0	30	25	e17	e28	e45	e14	5.6	22	.49	.17	1.3
5	2.8	30	26	e19	e31	e46	e14	2.8	15	.28	.09	1.2
6	3.2	29	e27	e18	e40	e49	e14	3.2	5.1	.17	.04	.75
7	9.0	28	e27	e19	e47	e40	e14	4.0	5.9	.25	.03	1.3
8	19	28	e34	e19	e44	e33	e14	4.8	4.5	.29	.06	2.9
9	39	30	e34	e20	e47	e32	e14	4.8	2.4	.74	.09	2.9
10	36	30	e34	e19	e44	e31	e14	2.0	8.0	.39	.98	2.6
11	29	32	e35	e18	e40	e33	e14	1.6	3.6	.37	1.1	1.9
12	29	32	e35	e18	e40	e26	e14	9.0	1.5	.48	1.0	1.5
13	28	37	e34	e19	e44	e22	e4.6	204	1.3	.70	1.2	1.1
14	35	34	e33	e18	e50	e22	2.0	267	1.1	.69	1.0	1.3
15	39	31	e31	e17	e54	e19	.55	217	1.3	.69	.85	1.4
16	39	30	e31	e18	e56	e19	.51	116	.25	.55	.64	.99
17	39	30	e28	e19	e58	e20	.45	50	1.2	.95	.54	.81
18	56	30	e27	e20	e64	22	1.2	18	2.1	.67	1.0	.73
19	51	28	e26	e20	e68	22	1.1	4.8	.38	.81	.54	.71
20	42	27	e24	e19	e68	25	.98	3.9	.34	.35	.35	1.4
21	41	30	e21	e19	e72	24	.85	4.8	.51	.22	.89	1.7
22	41	26	e19	e19	e60	22	.93	3.6	.63	.83	.65	1.4
23	39	28	e19	e19	e50	24	35	3.8	.85	.24	.56	1.1
24	38	27	e24	e24	e60	22	25	3.0	.85	.26	.16	1.1
25	38	29	e27	e29	e64	22	9.6	4.9	.93	.25	e.04	.85
26	36	27	e27	e29	e58	18	4.8	6.3	.23	.44	e.03	.68
27	36	27	e19	e38	e50	14	4.6	7.1	.41	.33	e.03	.64
28	40	27	e20	e38	e50	14	9.3	13	.70	.21	e.04	.92
29	41	28	e21	e45	---	14	8.5	11	.74	.20	e.04	1.7
30	42	28	e20	e43	---	13	7.6	10	.92	.14	e.03	5.2
31	43	---	e19	e38	---	14	---	10	---	.14	e.03	---
TOTAL	942.6	908	826	710	1374	847	285.57	1006.7	190.74	15.87	12.55	42.41
MEAN	30.4	30.3	26.6	22.9	49.1	27.3	9.52	32.5	6.36	.51	.40	1.41
MAX	56	46	35	45	72	50	35	267	47	1.7	1.2	5.2
MIN	2.5	26	19	17	28	13	.45	1.6	.23	.14	.03	.29
AC-FT	1870	1800	1640	1410	2730	1680	566	2000	378	31	25	84

CAL YR 1993 TOTAL 31280.0 MEAN 85.7 MAX 1510 MIN 2.0 AC-FT 62040
WTR YR 1994 TOTAL 7161.44 MEAN 19.6 MAX 267 MIN .03 AC-FT 14200

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 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)
OCT , 1993						
13...	0830	40	2100	8.1	10.5	22
MAR , 1994						
17...	0915	23	2350	8.2	7.0	56
APR						
13...	0905	5.0	3080	8.1	9.0	100
MAY						
18...	0900	21	1130	8.2	13.0	25
JUN						
16...	0855	0.90	3020	7.8	15.0	54
JUL						
14...	0710	0.75	3080	7.8	18.0	27
AUG						
16...	1450	0.40	3980	8.1	27.0	82

09271600 STEWART LAKE OUTFLOW NEAR JENSEN, UT

LOCATION.--Lat 40°20'46", long 109°21'45", in NW¼NW¼NW¼ sec. 32, T. 5 S., R. 23 E., Uintah County, Hydrologic Unit 14060003, on right bank, about 2 mi southwest of Jensen.

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

GAGE.--Water-stage recorder. Elevation of gage is 4,720 ft above sea level from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17 ft³/s May 12, 1992, gage height, 3.20 ft, maximum gage height, 7.07 ft May 28, 1993 (backwater from Green River); no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 8.5 ft³/s Oct. 9; no flow many days during April and May.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	3.8	e1.6	e.45	e.32	e.47	.18	.00	2.3	2.1	2.2	e2.9
2	7.1	3.6	e1.5	e.45	e.31	e.47	.17	.00	2.6	2.0	2.2	e2.9
3	6.8	3.5	e1.4	e.46	e.31	e.48	.13	.00	2.6	2.0	2.2	e2.9
4	6.6	3.4	e1.4	e.50	e.32	e.49	.14	.00	2.7	2.2	2.2	e2.9
5	6.5	3.3	e1.5	e.56	e.33	e.50	.10	.00	2.6	2.4	2.2	e2.9
6	6.5	3.1	e1.4	e.51	e.36	e.54	.03	.00	2.5	2.3	2.1	e2.9
7	7.2	3.1	e1.5	e.42	e.39	e.51	.04	.00	2.4	2.1	2.2	e2.8
8	7.9	3.0	e1.5	e.42	e.45	e.47	.03	.02	2.5	2.2	2.2	e2.8
9	8.5	3.0	e1.5	e.45	e.44	e.42	.01	.06	2.4	2.4	2.7	e2.8
10	8.3	2.9	e1.5	e.47	e.45	e.42	.05	.08	2.1	2.6	3.1	e2.8
11	8.1	2.9	e1.5	e.50	e.44	e.45	.06	.13	e2.2	2.6	3.2	e2.8
12	7.9	2.8	e1.4	e.48	e.37	e.45	.00	.15	e2.1	2.7	3.2	e2.8
13	7.6	3.0	e1.3	e.48	e.29	e.44	.00	.18	e2.0	2.8	3.1	e2.7
14	7.6	3.1	e1.1	e.49	e.31	e.47	.00	.24	e1.9	2.9	3.1	e2.7
15	7.3	2.8	e1.1	e.48	e.34	e.48	.00	.25	e1.8	2.9	3.2	e2.7
16	7.1	2.8	e.92	e.47	e.35	e.48	.00	.24	e1.8	2.9	3.2	e2.7
17	7.0	2.7	e.71	e.47	e.37	e.54	.00	.25	1.7	2.9	3.2	e2.7
18	7.0	2.6	e.70	e.48	e.39	e.62	.00	.30	1.8	2.9	3.2	e2.7
19	6.7	2.4	e.66	e.48	e.40	.50	.00	.31	1.9	2.8	3.1	e2.7
20	6.4	2.4	e.57	e.45	e.41	.57	.00	.40	2.2	2.8	3.1	e2.6
21	6.2	2.4	e.56	e.45	e.41	.55	.00	.45	2.2	2.6	3.1	e2.6
22	5.9	2.4	e.48	e.45	e.40	.43	.00	.55	2.4	2.5	3.0	e2.5
23	5.6	e2.2	e.51	e.45	e.38	.44	.00	.62	2.6	2.5	3.0	e2.5
24	5.4	e2.1	e.45	e.48	e.38	.45	.00	.78	2.6	2.4	e2.9	e2.4
25	5.1	e2.0	e.43	e.48	e.38	.46	.00	.90	2.6	2.3	e2.9	e2.4
26	5.0	e1.9	e.43	e.54	e.39	.50	.00	.88	2.6	2.3	2.9	e2.3
27	4.6	e1.8	e.50	e.61	e.42	.40	.00	.95	2.5	2.2	3.0	e2.3
28	4.4	e1.8	e.59	e.61	e.45	.34	.00	1.3	2.3	2.2	3.1	e2.2
29	4.3	e1.7	e.65	e.55	---	.33	.00	1.5	2.2	2.2	e3.0	e2.2
30	4.0	e1.7	e.56	e.46	---	.24	.00	1.7	2.1	2.2	e3.0	e2.1
31	3.8	---	e.46	e.35	---	.24	---	2.0	---	2.2	e3.0	---
TOTAL	199.7	80.2	30.38	14.90	10.56	14.15	0.94	14.24	68.2	76.1	87.8	79.2
MEAN	6.44	2.67	.98	.48	.38	.46	.031	.46	2.27	2.45	2.83	2.64
MAX	8.5	3.8	1.6	.61	.45	.62	.18	2.0	2.7	2.9	3.2	2.9
MIN	3.8	1.7	.43	.35	.29	.24	.00	.00	1.7	2.0	2.1	2.1
AC-FT	396	159	60	30	21	28	1.9	28	135	151	174	157

CAL YR 1993 TOTAL 1083.81 MEAN 2.97 MAX 11 MIN .00 AC-FT 2150
WTR YR 1994 TOTAL 676.37 MEAN 1.85 MAX 8.5 MIN .00 AC-FT 1340

e Estimated

09274900 WEST FORK DUCHESNE RIVER BELOW VAT DIVERSION NEAR HANNA, UT

LOCATION.--Lat 40°27'01", long 111°00'13", in SE¼NW¼SE¼ sec. 27, T. 1 N., R. 10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060003, on right bank 180 ft below Vat diversion, approximately 15 mi northwest of Hanna.

DRAINAGE AREA.--37.0 mi².

PERIOD OF RECORD.--October 1989 to September 1994 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 7,800 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow is regulated by the Vat Tunnel diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 414 ft³/s May 26, 1993, gage height, 3.10 ft; minumum daily discharge, 2.9 ft³/s Aug. 28, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48 ft³/s Apr. 18, gage height, 1.89 ft; minimum daily discharge, 5.5 ft³/s Jan. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	e6.7	e7.0	7.0	e6.3	7.1	11	17	18	17	9.7	8.1
2	9.8	e6.6	e7.5	7.2	e6.4	7.3	11	17	18	16	9.9	8.7
3	9.8	e6.6	8.1	6.8	e6.5	7.7	12	17	18	15	10	9.1
4	9.7	e6.6	8.2	7.5	e6.6	8.1	11	17	18	15	9.3	9.7
5	9.6	e6.6	8.1	8.5	e6.6	8.0	11	18	19	14	9.6	8.9
6	9.3	e6.6	8.2	7.6	6.9	7.7	10	18	19	13	8.8	8.6
7	8.8	e6.3	8.0	5.5	7.6	7.2	11	19	19	13	8.8	9.2
8	11	e6.5	8.2	10	7.8	7.6	10	19	18	13	8.2	9.3
9	10	e6.8	8.2	10	7.1	7.5	10	19	18	13	12	8.7
10	9.1	e7.0	8.2	9.4	7.4	7.2	9.8	19	18	12	13	8.3
11	9.5	e7.2	7.9	8.7	e7.4	7.6	9.7	19	18	12	13	8.3
12	12	e7.4	7.8	8.9	e7.3	8.0	11	18	27	11	11	9.2
13	12	e7.7	7.5	8.9	e7.2	8.0	12	18	32	11	10	9.3
14	8.8	e7.6	e7.5	8.3	e7.1	8.8	13	19	32	11	10	9.0
15	e6.8	e8.0	e7.6	7.4	e7.0	8.6	14	19	31	11	9.9	8.8
16	e6.8	e8.7	e7.4	7.2	e7.0	9.2	17	19	30	11	9.3	8.3
17	e6.8	9.5	e7.4	7.3	e7.0	9.5	20	18	28	11	8.8	8.1
18	e6.8	8.4	7.4	7.7	e7.0	9.0	21	18	27	10	10	7.8
19	e6.8	7.7	7.5	7.8	6.9	9.1	18	18	27	9.4	17	7.8
20	e6.8	8.8	e7.5	7.8	e7.0	8.7	18	19	26	9.1	12	8.2
21	e6.8	8.6	e7.5	7.8	e7.0	8.4	18	18	26	9.3	11	8.4
22	e6.8	e8.0	e7.5	7.4	e7.0	8.7	18	19	25	10	11	8.4
23	e6.8	e7.7	e7.4	7.4	e6.8	7.7	18	19	23	10	10	8.5
24	e6.8	e7.3	e7.4	7.7	e6.9	7.9	18	19	21	9.2	10	8.2
25	e6.8	e7.0	e7.3	7.6	e7.0	7.7	18	20	21	9.3	9.8	8.6
26	e6.8	e6.8	e7.3	7.3	e7.0	8.0	18	19	20	9.1	9.1	8.0
27	e6.8	e6.8	e7.2	7.4	e7.0	7.6	18	19	19	8.6	9.1	7.8
28	e6.8	e6.8	e7.2	7.0	7.0	7.9	17	19	18	8.8	10	7.6
29	e6.4	e6.7	7.0	7.0	---	8.4	17	19	18	9.1	9.9	9.1
30	e6.6	6.6	7.0	6.9	---	8.5	17	19	18	9.1	9.5	11
31	e6.7	---	6.9	6.2	---	9.9	---	19	---	9.5	8.3	---
TOTAL	254.0	219.6	234.9	239.2	195.8	252.6	437.5	574	670	349.5	318.0	259.0
MEAN	8.19	7.32	7.58	7.72	6.99	8.15	14.6	18.5	22.3	11.3	10.3	8.63
MAX	12	9.5	8.2	10	7.8	9.9	21	20	32	17	17	11
MIN	6.4	6.3	6.9	5.5	6.3	7.1	9.7	17	18	8.6	8.2	7.6
AC-FT	504	436	466	474	388	501	868	1140	1330	693	631	514

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1994, BY WATER YEAR (WY)

MEAN	6.88	7.05	7.34	6.95	6.50	6.83	11.4	39.7	20.3	14.4	10.0	8.57
MAX	8.76	9.35	9.30	9.31	7.86	8.15	14.6	94.9	29.1	22.8	13.0	10.5
(WY)	1992	1992	1992	1992	1992	1994	1994	1993	1993	1991	1991	1991
MIN	5.37	5.01	5.57	5.68	5.52	5.85	5.97	16.7	11.8	9.15	5.71	5.40
(WY)	1991	1990	1990	1990	1993	1991	1993	1990	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1990 - 1994	
ANNUAL TOTAL	6397.4		4004.1			
ANNUAL MEAN	17.5		11.0		12.2	
HIGHEST ANNUAL MEAN					17.3	1993
LOWEST ANNUAL MEAN					9.36	1990
HIGHEST DAILY MEAN	270	May 22	32	Jun 13	270	May 22 1993
LOWEST DAILY MEAN	4.4	Apr 27	5.5	Jan 7	2.9	Aug 28 1992
ANNUAL SEVEN-DAY MINIMUM	4.5	Apr 23	6.5	Jan 30	3.2	Aug 27 1992
ANNUAL RUNOFF (AC-FT)	12690		7940		8850	
10 PERCENT EXCEEDS	20		19		18	
50 PERCENT EXCEEDS	7.8		8.8		8.3	
90 PERCENT EXCEEDS	5.4		6.8		5.4	

e Estimated

09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UT

LOCATION.--Lat 40°27'01", long 110°53'01", in SE¼NE¼SE¼ sec. 27, T. 1 N., R. 9 W., Uinta Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 1,500 ft upstream from Wolf Creek, and 7.1 mi northwest of Hanna.

DRAINAGE AREA.--61.6 mi².

PERIOD OF RECORD.--May to October 1904 (gage heights only, fragmentary), August 1921 to March 1922, October 1922 to September 1923, October 1945 to September 1994 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 7,218 ft above sea level, from topographic map. Prior to Oct. 1, 1923, nonrecording gages at approximately same site at different datums. Oct. 1, 1923 to Sept. 3, 1986 at datum 1.0 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. One small diversion for irrigation of about 100 acres above station. On March 27, 1986, the U.S. Bureau of Reclamation began diverting water from the West Fork into the Strawberry Aqueduct for transmountain diversion to Strawberry Reservoir. The diversion gates are located 8 mi above the station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 758 ft³/s June 5, 1967, maximum gage height, 4.40 ft June 4, 1952, datum then in use; minimum discharge recorded, 0.19 ft³/s Mar. 29, 1975, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41 ft³/s June 13-15, gage height, 2.39 ft; minimum daily discharge, 8.0 ft³/s Jan. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e18	e12	e15	e11	e9.4	9.9	16	27	27	21	16	12
2	e18	12	e15	e11	e10	10	15	26	26	20	17	12
3	e18	12	e16	e12	11	10	17	26	26	20	18	13
4	e18	e12	e16	e13	10	12	17	26	26	19	17	12
5	e17	12	16	13	11	11	15	26	25	18	16	11
6	18	12	16	13	11	11	14	27	25	18	15	11
7	17	11	16	11	11	10	15	27	24	18	15	12
8	19	e11	18	13	11	8.5	13	27	24	17	16	12
9	19	e12	18	15	10	11	13	28	24	17	21	12
10	19	12	17	13	11	10	14	28	24	17	24	12
11	18	13	17	13	10	11	15	28	24	16	24	12
12	22	e13	17	14	8.9	11	16	29	30	16	22	14
13	22	14	e17	13	e10	11	16	29	39	16	22	17
14	20	14	e16	13	11	13	18	30	40	16	21	15
15	16	19	16	12	10	14	19	30	39	16	20	14
16	15	17	15	12	10	14	21	31	37	15	18	14
17	15	15	e15	12	10	15	26	31	35	15	18	14
18	17	12	e15	13	10	14	30	30	33	15	19	13
19	15	e12	e15	12	9.1	15	27	29	33	15	23	13
20	14	e12	e15	12	e10	13	27	29	32	15	17	14
21	14	e12	e15	12	e9.9	13	27	29	33	15	15	14
22	14	e11	e15	12	e9.8	15	27	29	32	17	13	13
23	14	e11	e14	12	e9.8	14	27	29	29	17	12	13
24	14	e11	e13	13	e9.5	10	27	29	27	16	12	14
25	14	e11	e12	12	e9.5	13	27	28	26	16	12	14
26	14	e12	e11	12	e9.4	8.7	28	28	25	15	11	14
27	14	e12	e10	11	9.8	8.9	28	28	23	15	11	13
28	14	e13	e9.3	11	9.5	10	28	29	22	15	12	13
29	14	e14	e8.9	9.2	---	12	27	27	22	15	12	14
30	12	e15	e9.4	8.0	---	13	27	27	21	14	12	18
31	e12	---	e9.9	e9.0	---	14	---	27	---	16	12	---
TOTAL	505	381	448.5	372.2	281.6	366.0	637	874	853	511	513	399
MEAN	16.3	12.7	14.5	12.0	10.1	11.8	21.2	28.2	28.4	16.5	16.5	13.3
MAX	22	19	18	15	11	15	30	31	40	21	24	18
MIN	12	11	8.9	8.0	8.9	8.5	13	26	21	14	11	11
AC-FT	1000	756	890	738	559	726	1260	1730	1690	1010	1020	791

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1994, BY WATER YEAR (WY)

MEAN	13.8	12.6	11.8	10.6	10.2	13.0	26.1	53.7	32.5	20.1	14.9	13.1
MAX	29.1	20.8	16.5	13.8	12.5	15.4	39.9	142	56.4	28.1	19.8	18.9
(WY)	1987	1987	1987	1987	1987	1987	1987	1993	1993	1991	1993	1993
MIN	8.95	8.84	9.35	8.10	8.52	9.35	16.6	28.2	15.7	14.4	9.78	7.87
(WY)	1993	1990	1990	1993	1993	1991	1991	1994	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1987 - 1994	
ANNUAL TOTAL	10978.0		6141.3			
ANNUAL MEAN	30.1		16.8		19.4	
HIGHEST ANNUAL MEAN					28.8	1993
LOWEST ANNUAL MEAN					15.1	1990
HIGHEST DAILY MEAN	358	May 27	40	Jun 14	358	May 27 1993
LOWEST DAILY MEAN	6.0	Jan 5	8.0	Jan 30	5.7	Aug 28 1992
ANNUAL SEVEN-DAY MINIMUM	7.5	Jan 4	9.5	Jan 29	6.1	Aug 28 1992
ANNUAL RUNOFF (AC-FT)	21770		12180		14070	
10 PERCENT EXCEEDS	37		27		33	
50 PERCENT EXCEEDS	18		15		14	
90 PERCENT EXCEEDS	8.5		10		9.1	

e Estimated

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

LOCATION.--Lat 40°27'42", long 110°50'10", in SE¼SE¼SW¼ sec. 19, T. 1 N., R. 8 W., Uinta Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank .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 sea level, from topographic map.

REMARKS.--Record good except for estimated daily discharges, which are 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, 495 ft³/s May 22, 26, 1993, gage height, 3.83 ft; minimum daily discharge 6.8 ft³/s Aug. 30, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40 ft³/s June 13, 14, gage height, 2.36 ft; minimum daily discharge 10 ft³/s Dec. 29, Feb. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	19	e18	e13	e14	e11	e18	30	27	23	16	13
2	19	18	e18	e14	e15	e12	e17	29	27	23	16	13
3	19	19	e19	e14	e15	e13	e18	29	27	23	16	14
4	19	18	e19	e15	e15	e14	e19	29	27	22	15	14
5	19	19	e20	e15	e16	e13	e18	29	26	22	14	13
6	21	e17	e20	e15	e16	e12	e18	29	27	21	14	13
7	20	e16	e21	e14	e16	e12	e19	30	26	21	14	13
8	22	e15	e21	e16	e16	e12	e18	30	26	21	14	13
9	22	e15	e21	e18	e16	e12	e17	30	26	21	19	13
10	20	e16	e20	e17	e15	e13	e18	30	26	20	19	13
11	21	e17	e19	e17	e14	e14	e19	31	26	19	20	13
12	24	20	e19	e18	e13	e14	e20	32	29	19	18	14
13	23	19	e19	e17	e14	e15	e22	32	37	18	18	16
14	22	23	e19	e16	e15	e15	e25	32	38	18	17	16
15	19	e25	e18	e16	e15	e15	e27	31	38	18	15	15
16	18	e28	e17	e16	e15	e16	e30	31	36	17	15	14
17	19	e25	e17	e17	e15	e17	e34	29	35	17	14	14
18	21	e23	e17	e18	e15	e16	e35	27	34	17	15	14
19	19	e19	e17	e17	e14	e17	e34	27	35	16	23	14
20	18	e16	e17	e16	e13	e16	e30	28	34	16	18	15
21	18	e15	e17	e17	e13	e17	e30	28	35	16	16	15
22	18	e14	e17	e17	e12	e18	e30	27	33	19	15	14
23	18	e14	e16	e18	e12	18	e30	28	31	19	14	14
24	17	e14	e15	e17	e11	16	e30	28	29	17	14	13
25	17	e15	e14	e16	e11	17	e30	27	29	16	13	13
26	17	e15	e13	e15	e11	16	e30	27	28	16	13	13
27	17	e15	e12	e15	e11	18	31	27	26	15	13	13
28	18	e16	e11	e15	e10	e16	32	28	25	15	14	13
29	17	e17	e10	e14	---	e15	30	27	24	15	14	14
30	20	e18	e11	e13	---	e16	30	27	23	15	14	18
31	22	---	e12	e14	---	e17	---	28	---	16	13	---
TOTAL	603	540	524	490	388	463	759	897	890	571	483	417
MEAN	19.5	18.0	16.9	15.8	13.9	14.9	25.3	28.9	29.7	18.4	15.6	13.9
MAX	24	28	21	18	16	18	35	32	38	23	23	18
MIN	17	14	10	13	10	11	17	27	23	15	13	13
AC-FT	1200	1070	1040	972	770	918	1510	1780	1770	1130	958	827

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1994, BY WATER YEAR (WY)

MEAN	14.6	14.7	13.9	12.7	12.6	14.3	22.3	58.3	35.2	24.5	17.5	14.7
MAX	19.5	18.0	16.9	15.8	13.9	15.7	27.3	137	54.8	38.5	24.3	22.3
(WY)	1994	1994	1994	1994	1994	1993	1990	1993	1993	1991	1993	1993
MIN	10.6	11.3	10.9	10.9	10.4	11.6	17.1	28.9	15.4	15.5	11.3	9.02
(WY)	1993	1990	1993	1993	1990	1992	1992	1994	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1990 - 1994	
ANNUAL TOTAL	11740.8		7025			
ANNUAL MEAN	32.2		19.2		21.3	
HIGHEST ANNUAL MEAN					30.4	1993
LOWEST ANNUAL MEAN					16.7	1992
HIGHEST DAILY MEAN	420	May 22	38	Jun 14	420	May 22 1993
LOWEST DAILY MEAN	8.0	Jan 5	10	Dec 29	6.8	Aug 30 1992
ANNUAL SEVEN-DAY MINIMUM	9.0	Jan 1	11	Feb 23	7.4	Aug 28 1992
ANNUAL RUNOFF (AC-FT)	23290		13930		15460	
10 PERCENT EXCEEDS	43		30		31	
50 PERCENT EXCEEDS	20		17		16	
90 PERCENT EXCEEDS	12		13		11	

e Estimated

09277500 DUCHESNE RIVER NEAR TABIONA, UT

LOCATION.--Lat 40°18'01", long 110°36'06", in SE¼SW¼SE¼ 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.

DRAINAGE AREA.--356 mi².

PERIOD OF RECORD.--October 1918 to current year. Monthly discharge only for some periods, published in WSP 1313.

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

GAGE.--Water-stage recorder. Elevation of gage is 6,190 ft above sea level, from topographic map. Prior to Oct. 15, 1934, nonrecording gage, and Oct. 16, 1934 to Nov. 6, 1953, water-stage recorder at site 0.5 mi upstream at various datums. Nov. 7, 1953 to Nov. 7, 1972, at site 1 mi upstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,260 ft³/s June 16, 1963, gage height, 7.97 ft from floodmarks, caused by failure of Little Deer Creek Dam 20 mi upstream. Rating curve extended above 400 ft³/s on basis of slope-area measurement and area-velocity study of peak flow; minimum discharge, 18 ft³/s June 5, 6, 1992.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 14	1000	*175	*1.98				

Minimum daily discharge, 32 ft³/s July 12, 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	102	88	73	e66	71	69	98	104	47	50	51
2	78	97	88	73	e67	73	70	100	91	45	57	47
3	75	100	86	73	e67	75	70	92	86	49	54	45
4	74	99	86	73	e67	77	72	90	87	46	51	43
5	75	95	85	72	e65	76	71	90	87	46	46	44
6	84	92	89	73	e64	76	68	95	86	42	47	44
7	88	94	85	70	63	73	68	110	63	43	45	47
8	91	93	88	72	66	72	67	119	44	40	52	48
9	97	94	86	70	61	69	67	117	47	37	65	48
10	94	97	85	70	63	69	72	114	47	36	76	49
11	94	97	83	71	66	71	70	115	44	34	66	52
12	99	102	88	73	60	67	70	130	42	32	64	52
13	100	101	77	71	62	68	70	138	44	32	60	63
14	104	96	82	70	66	71	72	158	48	36	66	67
15	101	93	82	70	64	73	75	154	47	37	61	64
16	101	93	83	71	66	75	74	155	69	36	57	63
17	107	92	78	68	63	77	78	138	74	38	57	61
18	121	91	78	72	67	76	86	120	70	37	58	61
19	110	86	77	67	62	75	88	107	73	36	74	60
20	102	86	75	68	62	76	91	103	75	35	78	64
21	101	87	79	66	67	71	95	89	75	35	71	63
22	101	94	78	68	62	76	102	77	75	36	69	59
23	99	92	80	67	63	73	112	82	70	42	69	62
24	98	86	76	70	65	69	121	79	67	41	66	61
25	97	84	83	69	66	73	110	69	64	45	61	58
26	96	81	80	68	69	69	110	71	60	42	60	59
27	98	90	79	66	70	67	116	70	59	43	62	58
28	97	87	77	65	70	67	113	70	57	44	60	59
29	96	90	71	65	---	69	109	71	55	44	58	58
30	95	88	72	e66	---	67	101	67	52	45	57	75
31	100	---	74	e66	---	69	---	89	---	49	54	---
TOTAL	2953	2779	2518	2156	1819	2230	2557	3177	1962	1250	1871	1685
MEAN	95.3	92.6	81.2	69.5	65.0	71.9	85.2	102	65.4	40.3	60.4	56.2
MAX	121	102	89	73	70	77	121	158	104	49	78	75
MIN	74	81	71	65	60	67	67	67	42	32	45	43
AC-FT	5860	5510	4990	4280	3610	4420	5070	6300	3890	2480	3710	3340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 1994, BY WATER YEAR (WY)

MEAN	117	120	108	95.9	93.1	99.7	155	495	618	199	109	106
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	44.1	48.7
(WY)	1935	1935	1993	1935	1935	1935	1977	1992	1992	1994	1977	1934

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1919 - 1994	
ANNUAL TOTAL	52240		26957			
ANNUAL MEAN	143		73.9		193	
HIGHEST ANNUAL MEAN					354	1922
LOWEST ANNUAL MEAN					68.9	1992
HIGHEST DAILY MEAN	1200	May 27	158	May 14	2490	Jun 13 1921
LOWEST DAILY MEAN	53	Jul 21	32	Jul 12	21	Jun 5 1992
ANNUAL SEVEN-DAY MINIMUM	58	Jan 2	35	Jul 10	30	May 31 1992
ANNUAL RUNOFF (AC-FT)	103600		53470		139900	
10 PERCENT EXCEEDS	302		100		398	
50 PERCENT EXCEEDS	88		71		110	
90 PERCENT EXCEEDS	64		46		74	

e Estimated

09277800 ROCK CREEK ABOVE SOUTH FORK, NEAR HANNA, UT

LOCATION.--Lat 40°33'27", long 110°41'50", in NW¼SE¼NE¼ sec. 20, T. 2 N., R. 7 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 500 ft downstream from upper Stillwater Dam, 0.9 mi upstream from South Fork, and 11.2 mi north of Hanna.

DRAINAGE AREA.--98.9 mi².

PERIOD OF RECORD.--October 1965 to March 1984, October 1988 to September 1994 (discontinued).

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

GAGE.--Water-stage recorder. Elevation of gage is 7,967.7 ft above sea level, (levels by Bureau of Reclamation). Prior to Nov. 21, 1988 at different datum.

REMARKS.--Records fair. Flow regulated by Stillwater Dam since Nov. 3, 1987. Total capacity 32,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,760 ft³/s June 17, 1971, gage height, 4.95 ft; minimum measured, 6.9 ft³/s Dec. 23, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 59 ft³/s July 1, gage height, 1.98 ft; minimum daily discharge, 17 ft³/s Oct. 5-6, Dec. 5-7, and several days in April.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	23	e19	18	21	21	18	20	20	53	53	20
2	18	19	19	18	20	21	18	20	21	56	53	19
3	18	19	18	18	19	21	17	20	21	55	54	20
4	18	19	18	19	19	21	17	20	21	55	54	20
5	17	18	e17	20	18	21	18	20	22	55	53	20
6	17	18	17	20	18	21	18	20	22	54	53	20
7	20	18	17	20	18	21	18	20	22	54	52	20
8	22	18	18	20	19	21	18	21	21	55	51	20
9	21	19	18	20	20	21	17	21	20	55	50	20
10	22	20	18	20	20	21	17	21	20	55	50	20
11	22	20	18	20	21	21	17	21	20	55	51	20
12	22	21	e18	19	20	21	18	21	34	55	52	20
13	23	20	18	20	20	21	18	20	45	55	52	19
14	22	20	19	21	20	22	17	21	44	55	51	19
15	22	20	20	21	20	22	18	21	43	55	42	19
16	22	18	20	21	21	23	19	21	37	55	31	20
17	23	18	19	21	21	22	19	20	33	55	32	20
18	23	18	19	22	21	22	19	20	45	54	32	20
19	22	18	19	22	20	21	18	21	43	54	24	20
20	23	18	e19	22	20	21	18	20	43	55	18	20
21	23	18	19	22	20	20	18	20	43	55	18	20
22	24	19	18	22	20	20	18	21	43	54	18	20
23	23	19	18	22	20	19	18	21	45	54	18	21
24	24	e18	18	22	21	19	18	21	46	54	19	21
25	24	e18	18	22	21	20	18	21	47	54	20	21
26	24	e18	18	22	21	19	18	21	46	54	21	21
27	24	18	19	22	21	19	17	21	47	54	21	21
28	24	18	19	22	21	18	17	21	47	54	20	21
29	23	19	19	23	---	18	19	21	47	54	20	21
30	24	19	18	22	---	18	20	21	48	54	20	21
31	25	---	18	21	---	19	---	21	---	53	20	---
TOTAL	677	566	570	644	561	635	538	639	1056	1689	1123	604
MEAN	21.8	18.9	18.4	20.8	20.0	20.5	17.9	20.6	35.2	54.5	36.2	20.1
MAX	25	23	20	23	21	23	20	21	48	56	54	21
MIN	17	18	17	18	18	18	17	20	20	53	18	19
AC-FT	1340	1120	1130	1280	1110	1260	1070	1270	2090	3350	2230	1200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1994, BY WATER YEAR (WY)

MEAN	16.4	15.8	15.6	15.5	16.4	16.8	18.2	40.1	94.3	34.2	24.3	19.4
MAX	25.7	20.5	18.4	20.8	20.0	20.5	22.7	133	236	61.1	36.2	25.0
(WY)	1989	1989	1994	1994	1994	1994	1993	1993	1993	1993	1994	1989
MIN	9.59	9.99	11.0	10.7	12.5	12.4	14.6	14.0	19.1	13.1	12.4	11.1
(WY)	1991	1990	1990	1991	1990	1990	1990	1990	1992	1990	1991	1991

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1989 - 1994	
ANNUAL TOTAL	18152		9302			
ANNUAL MEAN	49.7		25.5		27.2	
HIGHEST ANNUAL MEAN					49.2	1993
LOWEST ANNUAL MEAN					19.9	1991
HIGHEST DAILY MEAN	504	Jun 22	56	Jul 2	711	Jun 11 1990
LOWEST DAILY MEAN	12	Aug 31	17	Oct 5	7.9	Oct 15 1990
ANNUAL SEVEN-DAY MINIMUM	13	Aug 26	17	Apr 8	8.1	Oct 9 1990
ANNUAL RUNOFF (AC-FT)	36000		18450		19730	
10 PERCENT EXCEEDS	134		53		36	
50 PERCENT EXCEEDS	19		20		18	
90 PERCENT EXCEEDS	14		18		11	

e Estimated

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°29'36", long 110°34'39", in SE¼NW¼SW¼ 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.

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

REMARKS.--Records fair. Flow partially regulated by Upper Stillwater Reservoir 8 mi upstream, beginning Nov. 3, 1987. Total capacity, 32,000 acre-ft. Access to gaging station was denied in August, 1994.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft³/s June 18, 1971, gage height, 5.98 ft; maximum gage height, 6.26 ft June 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 recorded discharge, 114 ft³/s Oct. 18, gage height, 2.29 ft; minimum recorded daily discharge, 36 ft³/s, Dec. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	42	44	41	39	42	39	47	50	69	77	---
2	37	37	41	41	38	43	39	46	48	77	77	---
3	38	38	e42	42	41	44	40	45	49	76	76	---
4	39	38	42	42	42	45	40	45	49	77	76	---
5	37	37	e41	42	41	45	39	45	48	76	74	---
6	39	39	42	44	42	45	39	45	49	74	74	---
7	40	40	e42	e42	43	45	39	45	48	76	75	---
8	42	39	41	41	45	44	39	47	48	77	75	---
9	46	39	41	41	44	43	40	47	48	76	83	---
10	45	39	41	40	43	42	43	47	48	75	79	---
11	47	40	42	39	e41	42	41	47	47	74	77	---
12	48	41	e41	40	e39	44	40	48	50	74	77	---
13	45	43	e40	40	e40	45	40	49	64	75	83	---
14	47	42	40	40	e41	46	38	49	64	76	80	---
15	48	41	42	41	e42	46	39	50	64	77	74	---
16	46	41	42	41	42	47	39	50	63	77	---	---
17	49	42	41	e40	42	46	39	51	49	76	---	---
18	67	42	38	40	45	45	39	50	64	77	---	---
19	53	e41	37	40	43	46	39	49	67	77	---	---
20	47	41	36	40	e43	46	39	49	66	76	---	---
21	43	43	38	e38	44	45	39	49	66	77	---	---
22	42	e44	38	e39	e42	45	40	49	65	77	---	---
23	42	e42	40	e40	e41	e44	40	49	63	78	---	---
24	43	e41	39	40	43	43	39	48	64	78	---	---
25	43	e40	42	40	44	42	39	48	64	77	---	---
26	42	39	42	40	43	42	39	48	64	76	---	---
27	41	42	43	40	42	41	43	48	63	77	---	---
28	41	43	42	e39	41	40	43	49	64	76	---	---
29	41	45	e41	e41	---	40	43	48	67	77	---	---
30	41	44	41	41	---	39	46	48	66	76	---	---
31	42	---	41	e40	---	41	---	51	---	77	---	---
TOTAL	1359	1225	1263	1255	1176	1353	1201	1486	1729	2358	---	---
MEAN	43.8	40.8	40.7	40.5	42.0	43.6	40.0	47.9	57.6	76.1	---	---
MAX	67	45	44	44	45	47	46	51	67	78	---	---
MIN	37	37	36	38	38	39	38	45	47	69	---	---
AC-FT	2700	2430	2510	2490	2330	2680	2380	2950	3430	4680	---	---

CAL YR 1993 TOTAL 27767 MEAN 76.1 MAX 564 MIN 31 AC-FT 55080

e Estimated

09279100 ROCK CREEK NEAR TALMAGE, UT

LOCATION.--Lat 40°18'40", long 110°29'36", in SE¼NE¼NW¼ sec. 18, T. 2 S., R. 5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 1.5 mi upstream from mouth, 4.1 mi southwest of Talmage and 11.1 mi northwest of Duchesne.

DRAINAGE AREA.--238 mi².

PERIOD OF RECORD.--October 1963 to June 1994 (discontinued).

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

GAGE.--water-stage recorder. Datum of gage is 6,119.3 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Upper Stillwater Dam (total capacity 32,000 acre-feet) completed, and storage started, in November 1987. Access to gaging station was denied in August, 1994.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,470 ft³/s June 6, 1986, gage height, 4.57 ft; minimum recorded, 6.0 ft³/s Nov. 28, 1976, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Recorded peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 18	2343	*99	*1.63				

Minimum recorded daily discharge, 40 ft³/s, Dec. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	46	e48	e44	e46	e51	47	58	63	---	---	---
2	42	43	e45	e47	e43	e51	46	57	56	---	---	---
3	43	42	e45	e46	e46	e56	47	54	54	---	---	---
4	44	42	e46	e46	e49	e56	47	53	54	---	---	---
5	43	43	e45	e47	e47	e56	46	53	53	---	---	---
6	45	e43	e46	e47	e49	56	46	54	52	---	---	---
7	48	e45	e46	e46	e50	53	46	53	52	---	---	---
8	48	e44	e46	e45	e51	53	46	54	52	---	---	---
9	53	e43	e46	e46	e52	53	48	54	52	---	---	---
10	51	e43	e46	e43	e50	52	53	55	51	---	---	---
11	52	e43	e45	e42	e48	50	50	55	51	---	---	---
12	54	44	e44	e46	e47	52	48	56	50	---	---	---
13	51	e44	e43	e48	e48	53	47	58	66	---	---	---
14	53	45	e42	e50	e50	54	46	57	70	---	---	---
15	52	e45	e44	e48	e52	54	45	58	71	---	---	---
16	54	e45	e46	e48	e52	55	46	58	70	---	---	---
17	55	e47	e44	e48	e52	54	46	58	58	---	---	---
18	66	e47	e43	e50	e52	53	46	58	66	---	---	---
19	64	e45	e42	e48	e52	53	46	56	73	---	---	---
20	53	e45	e40	e48	e52	53	47	56	75	---	---	---
21	48	e46	e42	e47	e52	51	48	56	74	---	---	---
22	48	e47	e43	e49	e50	52	47	54	76	---	---	---
23	48	e47	e44	e51	e48	51	49	54	72	---	---	---
24	47	e45	e43	e52	e50	50	47	55	72	---	---	---
25	47	e43	e45	e52	e52	50	48	55	71	---	---	---
26	47	e43	e45	e50	e51	48	49	55	70	---	---	---
27	46	e46	e45	e50	e52	47	56	56	70	---	---	---
28	46	e47	e45	e48	e52	47	56	60	71	---	---	---
29	47	e48	e44	e50	---	47	55	56	71	---	---	---
30	e46	e48	e44	e50	---	45	55	53	70	---	---	---
31	e46	---	e45	e48	---	47	---	57	---	---	---	---
TOTAL	1529	1344	1377	1480	1395	1603	1449	1726	1906	---	---	---
MEAN	49.3	44.8	44.4	47.7	49.8	51.7	48.3	55.7	63.5	---	---	---
MAX	66	48	48	52	52	56	56	60	76	---	---	---
MIN	42	42	40	42	43	45	45	53	50	---	---	---
AC-FT	3030	2670	2730	2940	2770	3180	2870	3420	3780	---	---	---

CAL YR 1993 TOTAL 29224 MEAN 80.1 MAX 548 MIN 28 AC-FT 57970

e Estimated

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT

LOCATION.--Lat 40°16'14", long 110°26'31", in NE¼NW¼NW¼ 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 sea level, from topographic map. Prior to Apr. 25, 1973, at site 150 ft upstream at different gage datum.

REMARKS.--No estimated daily discharges. Records fair. Several diversions above station for irrigation, including a transmountain diversion to the Great Basin through Duchesne Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,970 ft³/s June 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 19	0200	*251	*4.25				

Minimum daily discharge, 54 ft³/s Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	176	151	142	110	134	127	142	135	85	98	84
2	127	166	154	144	124	140	129	139	115	92	103	82
3	122	167	140	142	124	141	128	131	104	96	103	79
4	122	167	153	138	127	146	133	126	107	96	97	80
5	125	161	148	137	129	145	128	126	105	96	92	80
6	129	153	151	130	131	142	125	131	111	94	92	81
7	148	157	146	114	131	139	125	136	104	97	92	87
8	148	158	155	125	133	136	126	147	88	98	101	85
9	165	157	154	141	126	132	128	150	87	94	123	87
10	164	160	152	136	123	131	138	147	90	93	136	85
11	167	159	150	137	128	132	135	147	82	91	121	88
12	177	163	153	140	121	130	124	165	75	86	119	92
13	174	169	125	142	117	131	123	183	82	87	120	99
14	182	161	142	140	123	134	121	201	84	89	132	103
15	181	154	148	136	126	138	116	203	84	90	124	99
16	186	152	154	135	127	140	109	198	94	91	99	98
17	199	152	140	133	127	141	110	175	94	89	97	97
18	233	154	136	137	130	138	116	156	94	98	91	95
19	222	139	128	133	125	135	113	135	106	108	117	92
20	202	143	124	134	122	139	109	128	109	103	125	93
21	196	146	128	132	131	135	111	123	108	102	111	95
22	190	159	133	130	126	139	116	107	112	102	105	81
23	184	166	134	134	131	136	119	108	105	97	93	67
24	184	136	131	138	134	134	137	107	102	95	90	64
25	182	124	137	131	131	139	128	98	103	100	85	63
26	176	113	144	131	132	135	139	95	94	96	83	61
27	176	130	156	131	133	131	156	97	88	93	88	59
28	177	155	149	127	133	130	157	101	88	95	89	54
29	171	161	140	122	---	131	154	104	87	95	88	55
30	168	156	138	132	---	129	146	97	87	93	87	80
31	172	---	142	119	---	128	---	100	---	96	84	---
TOTAL	5274	4614	4436	4143	3555	4211	3826	4203	2924	2937	3185	2465
MEAN	170	154	143	134	127	136	128	136	97.5	94.7	103	82.2
MAX	233	176	156	144	134	146	157	203	135	108	136	103
MIN	122	113	124	114	110	128	109	95	75	85	83	54
AC-FT	10460	9150	8800	8220	7050	8350	7590	8340	5800	5830	6320	4890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1994, BY WATER YEAR (WY)

MEAN	196	193	165	154	149	160	214	674	1137	418	192	166
MAX	430	308	238	209	198	235	464	1525	2929	1447	443	350
(WY)	1983	1983	1984	1984	1986	1986	1985	1984	1986	1975	1983	1983
MIN	100	124	107	117	115	103	86.3	106	94.0	94.7	93.3	77.6
(WY)	1978	1978	1991	1978	1977	1977	1977	1990	1992	1994	1977	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1971 - 1994	
ANNUAL TOTAL	83798		45773			
ANNUAL MEAN	230		125		318	
HIGHEST ANNUAL MEAN					580	1986
LOWEST ANNUAL MEAN					118	1992
HIGHEST DAILY MEAN	1930	May 27	233	Oct 18	4700	Jun 6 1986
LOWEST DAILY MEAN	89	Jul 17	54	Sep 28	54	Sep 28 1994
ANNUAL SEVEN-DAY MINIMUM	91	Jul 16	60	Sep 23	60	Sep 23 1994
ANNUAL RUNOFF (AC-FT)	166200		90790		230500	
10 PERCENT EXCEEDS	502		162		606	
50 PERCENT EXCEEDS	143		128		170	
90 PERCENT EXCEEDS	105		88		111	

09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UT

LOCATION.--Lat 40°08'00", long 111°01'27", in SE¼SW¼NW¼ sec. 16, T. 2 S., R. 10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 300 ft below Soldier Creek Dam, 1.5 mi upstream from Willow Creek, and 3.4 mi south of Soldier Springs.

DRAINAGE AREA.--213 mi², includes approximately 170 mi² tributary to Strawberry Reservoir, which includes area above diversion dams on Indian and Trail Hollow Creeks.

PERIOD OF RECORD.--October 1942 to September 1956, October 1963 to September 1994 (discontinued).

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

GAGE.--Water-stage recorder. Elevation of gage is 7,360 ft above sea level, from topographic map. Prior to June 1, 1971, water-stage recorder at site about 0.2 mi upstream at different datum. From June 1, 1971 to Aug. 8, 1974, at site about 0.8 mi downstream at different datum. From Aug. 25, 1983 to Sept. 10, 1985 at site about 300 ft downstream at different datum.

REMARKS.--No estimated daily discharges, records good. 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 and the old dam was breached on June 6, 1985. Approximately 500,000 acre-ft can be diverted to Strawberry Reservoir through a series of tunnels located on Rock Creek, West Fork Duchesne and Currant Creek. Transmountain diversions from the reservoir divert flow to the Great Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft³/s May 4, 1952, gage height, 3.84 ft, site and datum then in use, from rating curve extended above 550 ft³/s; minimum daily discharge, 0.23 ft³/s July and August 1973.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	11	12	14	14	11	20	30	33	24	24	23
2	11	10	12	14	11	12	25	30	33	24	25	23
3	11	9.4	13	14	11	12	25	31	33	24	25	24
4	11	9.6	14	14	11	12	25	31	33	25	25	24
5	11	9.9	14	14	11	12	25	31	34	25	25	24
6	11	10	14	14	11	12	26	31	34	25	25	24
7	10	11	14	14	11	12	26	31	34	25	25	25
8	9.5	11	14	15	12	12	26	32	32	25	24	25
9	9.6	11	14	15	12	12	26	32	29	25	23	25
10	9.8	11	14	15	12	13	26	32	27	26	23	25
11	10	11	14	15	12	13	26	32	28	26	23	25
12	9.9	11	14	15	12	13	26	32	28	26	23	25
13	10	11	14	15	12	13	28	33	26	26	24	24
14	11	12	14	15	12	14	26	33	24	26	24	23
15	11	12	13	15	13	14	25	33	24	26	24	23
16	11	12	12	16	12	14	25	34	24	26	24	23
17	11	13	12	16	11	14	25	34	25	26	25	23
18	11	13	12	16	11	14	25	34	25	25	25	23
19	11	13	12	16	11	14	26	34	25	25	25	24
20	11	13	12	16	11	14	25	35	25	25	25	24
21	11	13	12	17	11	13	26	35	25	25	25	24
22	11	12	12	17	11	11	26	35	25	25	24	24
23	11	11	12	17	11	12	26	34	26	25	23	24
24	11	11	13	17	11	12	26	31	26	23	23	24
25	11	11	13	17	11	12	28	31	26	23	23	25
26	9.9	11	13	17	11	12	29	31	26	23	23	25
27	10	11	13	18	11	12	29	31	26	23	24	25
28	10	11	13	18	11	12	29	31	27	23	24	25
29	10	11	14	18	---	11	30	32	27	24	23	25
30	11	12	14	18	---	11	30	32	25	24	23	25
31	11	---	14	18	---	11	---	32	---	24	23	---
TOTAL	332.7	338.9	407	490	321	386	786	1000	835	767	744	725
MEAN	10.7	11.3	13.1	15.8	11.5	12.5	26.2	32.3	27.8	24.7	24.0	24.2
MAX	15	13	14	18	14	14	30	35	34	26	25	25
MIN	9.5	9.4	12	14	11	11	20	30	24	23	23	23
AC-FT	660	672	807	972	637	766	1560	1980	1660	1520	1480	1440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1994, BY WATER YEAR (WY)

MEAN	15.3	13.1	13.1	13.0	12.5	12.9	22.9	25.9	25.4	27.4	28.1	27.7
MAX	34.7	15.7	14.7	15.8	14.5	15.0	26.2	32.3	27.8	45.9	45.9	47.6
(WY)	1991	1986	1986	1994	1986	1986	1994	1994	1994	1990	1990	1990
MIN	10.7	11.3	11.5	11.1	11.1	10.7	17.3	22.8	22.2	22.1	22.8	22.7
(WY)	1994	1994	1993	1990	1993	1993	1993	1993	1993	1993	1993	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1986 - 1994	
ANNUAL TOTAL	6084.5		7132.6			
ANNUAL MEAN	16.7		19.5		19.8	
HIGHEST ANNUAL MEAN					23.5	1990
LOWEST ANNUAL MEAN					16.6	1993
HIGHEST DAILY MEAN	27	Sep 8	35	May 20	71	Sep 13 1990
LOWEST DAILY MEAN	9.4	Nov 3	9.4	Nov 3	8.5	Mar 28 1988
ANNUAL SEVEN-DAY MINIMUM	9.8	Oct 7	9.8	Oct 7	9.7	Mar 24 1988
ANNUAL RUNOFF (AC-FT)	12070		14150		14360	
10 PERCENT EXCEEDS	24		31		27	
50 PERCENT EXCEEDS	14		20		17	
90 PERCENT EXCEEDS	11		11		11	

09285900 STRAWBERRY RIVER AT PINNACLES NEAR FRUITLAND, UT

LOCATION.--Lat 40°07'39", long 110°44'28", in SE¼SW¼SW¼ sec. 13, T. 1 N., R. 8 E., Uintah Meridian, Duchesne County, Hudrologic Unit 14060004, on left bank 150 ft downstream from Strawberry Pinnacles and approximately 9 mi southeast of Fruitland.

DRAINAGE AREA.--372 mi².

PERIOD OF RECORD.--October 1989 to September 1994 (discontinued).

REVISED RECORDS.--WDR UT-92-1: 1991.

GAGE.--Water-stage recorder. Elevation of gage is 6,060 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow is regulated by Strawberry Reservoir.

COOPERATION.--Gage-height record Oct. 1, 1989 to Feb. 7, 1990 provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 308 ft³/s May 23, 1993, gage height, 2.56 ft; minimum daily discharge, 17 ft³/s Jan. 5, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 57 ft³s May 14, 15; minimum daily discharge, 31 ft³/s Feb. 23, 24, Apr. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	38	e36	35	e39	34	34	49	e54	45	44	41
2	40	38	e36	e34	e37	35	41	49	51	45	44	41
3	40	37	e37	36	e37	36	41	49	51	47	44	42
4	39	36	39	36	e38	36	42	49	48	45	44	42
5	38	36	39	36	e39	36	41	e51	47	45	44	42
6	38	36	38	e35	e43	36	41	e50	47	45	44	43
7	38	38	38	e34	e45	35	41	e52	49	44	43	43
8	38	40	39	e34	e41	34	41	e52	50	44	43	44
9	37	39	38	e34	38	34	42	e54	47	44	45	44
10	37	36	38	e33	35	34	43	e56	45	44	43	42
11	37	36	37	e33	35	34	43	e55	43	45	43	42
12	38	36	37	e34	e34	34	43	e54	44	45	44	43
13	37	36	e35	e35	e34	34	42	e55	45	45	45	43
14	37	36	e35	e36	e34	35	31	e57	44	46	45	42
15	37	38	e36	39	e34	35	44	e57	43	46	44	41
16	37	e38	e36	38	e34	35	46	e56	43	45	44	41
17	39	e38	e35	e37	35	34	46	e56	43	45	44	41
18	42	38	e35	39	33	34	46	e54	43	45	44	41
19	40	e38	e35	e39	33	34	46	e53	44	45	45	41
20	39	e38	e35	40	e32	34	47	e53	44	44	45	42
21	39	e37	e35	e40	e32	34	47	e54	45	43	45	43
22	39	38	e35	e40	e32	32	47	e53	45	46	43	41
23	39	37	e36	e40	e31	33	47	e52	45	46	42	41
24	39	e35	e37	38	e31	34	48	e52	45	45	41	42
25	39	e35	e37	37	33	34	49	e49	45	44	41	46
26	37	e35	e38	37	33	33	51	e48	46	43	42	45
27	36	e35	e41	37	33	34	51	e48	46	43	42	45
28	36	e35	e39	37	33	35	51	e49	46	43	42	45
29	36	e35	e37	e38	---	35	50	e47	47	43	42	45
30	36	e35	e36	39	---	33	49	e49	47	43	40	46
31	37	---	e35	e40	---	34	---	e52	---	44	41	---
TOTAL	1185	1103	1140	1140	988	1064	1331	1614	1382	1382	1342	1280
MEAN	38.2	36.8	36.8	36.8	35.3	34.3	44.4	52.1	46.1	44.6	43.3	42.7
MAX	44	40	41	40	45	36	51	57	54	47	45	46
MIN	36	35	35	33	31	32	31	47	43	43	40	41
AC-FT	2350	2190	2260	2260	1960	2110	2640	3200	2740	2740	2660	2540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1994, BY WATER YEAR (WY)

MEAN	40.8	34.7	32.2	31.1	32.0	33.2	37.5	70.4	61.7	50.2	49.0	47.4
MAX	61.2	39.2	37.1	36.8	35.3	34.4	44.4	162	117	64.9	64.2	63.5
(WY)	1991	1990	1990	1994	1994	1991	1994	1993	1993	1993	1990	1990
MIN	29.5	29.8	27.8	23.5	27.1	32.2	34.1	40.4	34.9	38.1	39.2	36.1
(WY)	1993	1993	1993	1993	1993	1993	1993	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1990 - 1994	
ANNUAL TOTAL	20631		14951			
ANNUAL MEAN	56.5		41.0		43.4	
HIGHEST ANNUAL MEAN					54.4	1993
LOWEST ANNUAL MEAN					35.1	1992
HIGHEST DAILY MEAN	281	May 23	57	May 14	281	May 23 1993
LOWEST DAILY MEAN	17	Jan 5	31	Feb 23	17	Jan 5 1993
ANNUAL SEVEN-DAY MINIMUM	21	Jan 25	32	Feb 18	20	Dec 20 1992
ANNUAL RUNOFF (AC-FT)	40920		29660		31450	
10 PERCENT EXCEEDS	90		49		60	
50 PERCENT EXCEEDS	38		41		37	
90 PERCENT EXCEEDS	26		34		29	

e Estimated

09286100 RED CREEK ABOVE RESERVOIR, NEAR FRUITLAND, UT

LOCATION.--Lat 40°19'48", long 110°51'43", in SW¼SE¼SE¼, sec. 2, T. 2 S., R. 9 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 2 mi above Red Creek Dam and 9.2 mi north of Fruitland.

DRAINAGE AREA.--31.4 mi².

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,320 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regulation or diversions above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 188 ft³/s, May 4, 1993, gage height, 2.95 ft from highwater mark; minimum recorded discharge, .03 ft³/s, Mar. 20, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft³/s, May 7, gage height, 1.79 ft; minimum daily discharge, 0.22 ft³/s, Aug. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.8	e2.7	e2.5	e2.3	e3.1	e3.4	8.4	7.1	.95	.38	.35
2	1.2	e1.8	e2.9	e2.6	e2.3	e3.1	e3.4	7.7	5.6	.95	.44	.36
3	1.3	e1.7	e2.8	e2.6	e2.3	e3.0	e3.5	7.3	5.0	.93	.44	.38
4	1.4	1.8	e2.9	e2.6	e2.3	e3.0	e3.4	8.4	4.7	.93	.41	.47
5	1.4	e1.7	e2.8	e2.6	e2.3	e3.0	e3.2	12	4.3	.86	.34	.47
6	2.0	e1.7	e2.8	e2.5	e2.5	e2.9	e3.1	15	4.0	.73	.26	.45
7	2.1	e1.8	e2.9	e2.4	e2.5	e2.8	e3.0	16	3.8	.63	.22	.43
8	2.0	e1.8	e3.0	e2.4	e2.4	e2.7	e3.0	13	3.6	.64	.26	.41
9	2.1	e1.9	e3.2	e2.4	e2.3	e2.6	e3.1	13	3.4	.64	.65	.40
10	1.9	e1.9	e3.1	e2.4	e2.3	e2.8	e3.3	14	3.4	.58	.92	.33
11	2.1	e2.0	e2.9	e2.5	e2.3	e2.9	e3.3	13	3.2	.55	.81	.37
12	3.1	e2.1	e2.8	e2.6	e2.3	e2.9	e3.4	14	2.9	.46	.68	.45
13	2.5	2.1	e2.5	e2.6	e2.3	e3.0	e3.5	13	2.8	.42	.60	.55
14	2.4	e2.2	e2.5	e2.6	e2.3	e2.9	e3.7	14	2.5	.31	.60	.67
15	2.9	e2.3	e2.5	e2.5	e2.4	e2.9	e3.9	12	2.5	.31	.46	.70
16	2.8	e2.8	e2.5	e2.5	e2.5	e3.1	e3.9	12	2.5	.31	.41	.66
17	3.1	e3.4	e2.4	e2.4	e2.6	e3.1	e4.1	11	2.3	.30	.31	.71
18	4.8	2.7	e2.4	e2.4	e2.6	e3.3	e4.6	9.3	2.3	.31	.29	.65
19	3.8	e3.2	e2.3	e2.4	e2.5	e3.3	e5.0	8.3	2.5	.32	1.7	.72
20	2.8	e3.1	e2.1	e2.4	e2.5	e3.2	e5.5	7.7	2.6	.30	1.7	.95
21	2.5	e3.1	e2.0	e2.4	e2.4	e3.3	e6.0	7.3	2.7	.28	1.1	.92
22	2.3	e3.0	e2.0	e2.4	e2.3	e3.3	e7.5	6.7	2.6	.45	1.2	.75
23	2.3	e3.0	e1.9	e2.5	e2.5	e3.3	e9.0	6.1	2.1	.56	.70	.72
24	2.1	e2.8	e2.0	e2.6	e2.6	e3.3	e10	5.9	1.8	.67	.52	.68
25	2.0	e2.5	e2.1	e2.8	e2.8	e3.4	e9.4	5.7	1.6	.98	.41	.64
26	2.0	e2.0	e2.2	e2.8	e2.9	e3.3	8.7	5.6	1.4	.66	.33	.68
27	2.0	e2.1	e2.2	e2.7	e3.0	e3.2	8.8	5.9	1.3	.58	.34	.60
28	1.9	e2.1	e2.3	e2.6	e3.1	e3.2	8.4	7.3	1.1	.45	.38	.60
29	1.9	e2.3	e2.4	e2.5	---	e3.2	8.0	6.6	1.1	.37	.35	.75
30	e2.0	e2.5	e2.5	e2.4	---	e3.2	8.4	5.8	1.0	.34	.36	1.8
31	e2.0	---	e2.5	e2.3	---	e3.3	---	6.0	---	.38	.36	---
TOTAL	69.9	69.2	78.1	77.9	69.4	95.6	157.5	298.0	87.7	17.15	17.93	18.62
MEAN	2.25	2.31	2.52	2.51	2.48	3.08	5.25	9.61	2.92	.55	.58	.62
MAX	4.8	3.4	3.2	2.8	3.1	3.4	10	16	7.1	.98	1.7	1.8
MIN	1.2	1.7	1.9	2.3	2.3	2.6	3.0	5.6	1.0	.28	.22	.33
AC-FT	139	137	155	155	138	190	312	591	174	34	36	37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1994, BY WATER YEAR (WY)

MEAN	1.99	2.28	2.13	1.96	2.28	3.80	8.40	12.9	6.25	1.86	1.13	1.14
MAX	4.29	4.00	3.50	2.59	3.30	6.83	15.0	36.5	15.1	4.18	2.38	1.52
(WY)	1987	1987	1987	1990	1991	1989	1987	1993	1993	1993	1993	1991
MIN	1.28	1.39	1.30	1.17	1.30	2.97	4.53	4.43	1.77	.55	.35	.62
(WY)	1993	1989	1993	1989	1993	1993	1992	1992	1992	1994	1992	1994

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1987 - 1994	
ANNUAL TOTAL	2451.86		1057.00			
ANNUAL MEAN	6.72		2.90		3.85	
HIGHEST ANNUAL MEAN					6.47	1993
LOWEST ANNUAL MEAN					2.08	1992
HIGHEST DAILY MEAN	59	May 20	16	May 7	70	Mar 11 1989
LOWEST DAILY MEAN	.78	Sep 12	.22	Aug 7	.12	Aug 4 1992
ANNUAL SEVEN-DAY MINIMUM	.91	Sep 9	.30	Jul 15	.16	Jul 29 1992
ANNUAL RUNOFF (AC-FT)	4860		2100		2790	
10 PERCENT EXCEEDS	15		6.0		8.8	
50 PERCENT EXCEEDS	2.4		2.4		2.3	
90 PERCENT EXCEEDS	1.3		.44		.90	

e Estimated

09286700 CURRANT CREEK BELOW CURRANT CREEK DAM, NEAR FRUITLAND, UT

LOCATION.--Lat 40°19'51", long 111°02'56", in NE¼SE¼SE¼ sec. 6, T. 2 S., R. 10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 700 ft below Currant Creek Dam, 1.0 mi above Red Ledge Hollow, and 14 mi northwest of Fruitland.

DRAINAGE AREA.--48.0 mi².

PERIOD OF RECORD.--October 1983 to September 1994 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 7,550 ft above sea level from topographic map.

REMARKS.--Records good. No estimated daily discharges. Flow regulated by Currant Creek Reservoir, total capacity, 15,670 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 558 ft³/s May 14, 1984, gage height, 5,58 ft; minimum daily, 0.63 ft³/s April 10, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 22 ft³/s June 6-12; minimum daily discharge, 8.4 ft³/s Nov. 20, 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.4	9.0	10	9.9	9.6	14	21	21	20	20	18
2	11	9.3	8.9	10	9.9	9.6	19	21	21	20	20	18
3	11	9.3	8.9	10	9.9	9.6	20	21	21	20	19	18
4	11	9.3	8.9	10	9.9	9.6	20	21	21	20	19	18
5	11	9.3	9.0	9.9	9.9	9.6	19	21	21	20	20	18
6	11	9.3	9.0	9.9	9.9	9.6	19	20	22	20	20	18
7	11	9.3	9.0	9.9	9.7	9.3	19	21	22	20	20	18
8	11	9.0	9.0	9.9	9.6	9.3	19	21	22	20	19	18
9	11	9.0	9.0	9.9	9.6	9.3	19	21	22	20	19	18
10	11	9.0	9.0	9.9	9.6	9.3	20	21	22	20	19	18
11	11	9.0	9.2	9.9	9.6	9.3	20	21	22	20	19	18
12	11	9.0	9.3	9.9	9.6	9.3	20	21	22	20	19	18
13	11	9.0	9.1	9.9	9.6	9.0	20	21	21	20	19	18
14	11	9.0	9.0	9.9	9.6	9.0	20	21	20	20	19	18
15	11	8.7	9.0	9.9	9.6	9.0	20	21	20	20	19	18
16	11	8.7	9.0	9.9	9.6	9.0	21	21	20	20	18	18
17	11	8.7	9.0	10	9.6	9.2	20	21	20	20	17	18
18	10	8.6	9.3	10	9.6	9.3	20	21	20	20	17	18
19	10	8.5	9.3	10	9.6	9.3	21	21	20	20	17	18
20	10	8.4	9.5	10	9.6	9.3	21	21	20	20	17	19
21	10	8.4	9.9	10	9.6	9.3	21	21	20	20	17	19
22	10	8.7	9.9	9.9	9.6	9.2	21	21	20	20	17	19
23	10	8.7	9.9	9.9	9.6	9.0	21	21	20	20	18	19
24	10	8.7	10	9.9	9.4	9.0	21	21	20	19	18	19
25	9.9	8.7	10	9.9	9.3	9.0	21	21	20	19	18	19
26	9.9	8.7	10	9.9	9.3	9.0	21	21	20	19	17	19
27	9.9	8.7	10	9.9	9.3	9.0	21	21	20	19	18	19
28	9.9	8.9	10	9.9	9.4	9.0	21	21	20	19	18	19
29	9.9	9.0	10	9.9	---	9.0	21	21	20	19	18	20
30	9.9	9.0	10	9.9	---	8.8	21	21	20	20	18	19
31	9.9	---	10	9.9	---	8.7	---	21	---	20	18	---
TOTAL	326.3	267.3	291.1	307.8	269.4	285.5	601	650	620	614	571	552
MEAN	10.5	8.91	9.39	9.93	9.62	9.21	20.0	21.0	20.7	19.8	18.4	18.4
MAX	11	9.4	10	10	9.9	9.6	21	21	22	20	20	20
MIN	9.9	8.4	8.9	9.9	9.3	8.7	14	20	20	19	17	18
AC-FT	647	530	577	611	534	566	1190	1290	1230	1220	1130	1090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1994, BY WATER YEAR (WY)

MEAN	9.53	9.52	10.4	9.94	9.55	9.28	24.1	46.4	32.6	19.2	15.4	15.0
MAX	17.4	18.9	19.7	17.3	14.6	12.1	59.4	297	154	42.1	22.4	24.1
(WY)	1984	1984	1985	1985	1985	1984	1985	1984	1984	1984	1984	1989
MIN	4.20	5.63	6.78	6.22	6.24	7.33	14.2	17.0	16.8	12.2	7.16	6.82
(WY)	1985	1985	1989	1989	1989	1988	1993	1992	1992	1986	1985	1988

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1984 - 1994	
ANNUAL TOTAL	5307.9		5355.4			
ANNUAL MEAN	14.5		14.7		17.6	
HIGHEST ANNUAL MEAN					55.8	1984
LOWEST ANNUAL MEAN					11.1	1986
HIGHEST DAILY MEAN	110	May 21	22	Jun 6	549	May 21 1984
LOWEST DAILY MEAN	8.4	Nov 20	8.4	Nov 20	.63	Apr 10 1985
ANNUAL SEVEN-DAY MINIMUM	8.6	Nov 15	8.6	Nov 15	3.3	Oct 15 1984
ANNUAL RUNOFF (AC-FT)	10530		10620		12750	
10 PERCENT EXCEEDS	17		21		22	
50 PERCENT EXCEEDS	12		14		11	
90 PERCENT EXCEEDS	9.0		9.0		7.1	

09288000 CURRANT CREEK NEAR FRUITLAND, UT

LOCATION.--Lat 40°12'01", long 110°54'25", in NE¼SE¼SW¼, 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 sea level, from topographic map. Aug. 6, 1952 to Nov. 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 Aug. 6, 1952.

REMARKS.--Records good except for estimated daily discharges, which are fair. 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 Oct. 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 daily discharge, 41 ft³/s several days in April; minimum daily discharge, 23 ft³/s Jan. 31, Feb. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	29	e29	29	23	29	30	40	38	25	29	30
2	30	29	e29	30	25	30	35	39	36	26	30	30
3	28	29	e30	29	27	31	37	39	34	27	29	31
4	29	29	e29	29	27	32	39	39	31	27	28	30
5	30	29	e28	29	28	33	38	39	32	27	26	29
6	33	28	e27	28	29	34	38	39	33	27	26	29
7	33	28	e27	26	29	33	40	39	33	28	27	28
8	33	27	e28	26	29	32	40	39	35	28	28	28
9	32	27	e27	30	26	30	e41	37	34	28	34	28
10	30	28	e27	26	28	30	e41	38	31	27	32	28
11	31	28	e27	26	28	31	e41	38	31	26	30	29
12	33	26	e28	30	24	31	e40	39	32	27	29	30
13	32	28	e29	30	25	31	e40	39	32	27	29	31
14	33	28	e28	29	28	30	e40	38	30	28	29	31
15	32	26	e27	28	28	31	e40	38	29	28	29	31
16	32	27	e27	27	29	32	e40	39	29	28	28	30
17	35	28	e26	27	29	34	e40	40	29	28	28	30
18	37	28	e26	29	29	32	e40	40	30	29	28	30
19	33	e28	e26	28	27	33	e39	39	32	29	33	31
20	31	e27	e26	28	25	33	e39	40	30	28	32	34
21	30	e27	e26	28	28	31	e39	39	31	26	33	33
22	30	e27	e26	28	26	31	e39	39	31	27	31	31
23	30	e28	e27	28	28	30	e39	39	29	27	30	31
24	30	e29	e28	30	30	30	e38	36	29	27	30	31
25	30	e28	e28	29	30	29	e38	36	28	27	30	30
26	30	e28	e30	29	30	29	39	36	28	27	30	29
27	29	e28	e31	29	29	29	41	38	28	27	29	29
28	29	e27	e29	27	29	29	41	39	28	28	30	29
29	29	e27	e27	26	---	30	41	38	27	28	29	32
30	29	e28	e25	27	---	30	40	36	25	28	29	35
31	29	---	29	23	---	30	---	37	---	27	29	---
TOTAL	965	834	857	868	773	960	1173	1191	925	847	914	908
MEAN	31.1	27.8	27.6	28.0	27.6	31.0	39.1	38.4	30.8	27.3	29.5	30.3
MAX	37	29	31	30	30	34	41	40	38	29	34	35
MIN	28	26	25	23	23	29	30	36	25	25	26	28
AC-FT	1910	1650	1700	1720	1530	1900	2330	2360	1830	1680	1810	1800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1994, BY WATER YEAR (WY)

MEAN	30.7	30.5	28.9	29.5	31.2	35.6	45.6	51.2	43.4	33.6	31.6	32.4
MAX	47.2	44.0	39.4	38.3	45.4	60.7	84.2	117	91.5	56.3	44.5	45.7
(WY)	1987	1987	1986	1987	1986	1986	1986	1986	1986	1986	1986	1986
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 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1986 - 1994	
ANNUAL TOTAL	13021		11215			
ANNUAL MEAN	35.7		30.7		35.4	
HIGHEST ANNUAL MEAN					58.5	1986
LOWEST ANNUAL MEAN					26.1	1992
HIGHEST DAILY MEAN	145	May 21	41	Apr 9	151	Jun 4 1986
LOWEST DAILY MEAN	18	Feb 14	23	Jan 31	12	Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	23	Feb 10	25	Jan 28	19	Dec 20 1990
ANNUAL RUNOFF (AC-FT)	25830		22240		25610	
10 PERCENT EXCEEDS	45		39		46	
50 PERCENT EXCEEDS	33		29		32	
90 PERCENT EXCEEDS	27		27		25	

e Estimated

09288180 STRAWBERRY RIVER NEAR DUCHESNE, UT

LOCATION.--Lat 40°09'17", long 110°33'15", in SE¼SW¼SW¼ sec. 3, T. 4 S., R. 6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on right bank 150 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 sea level, 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 new reservoir reached the elevation of the old reservoir on March 15 and the old dam was breached on June 6, 1985. Water Hollow Tunnel will divert 600 ft³/s to the reservoir during spring runoff when series of tunnels and small reservoirs are completed on Rock Creek, West Fork Duchesne River, and Currant Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,090 ft³/s May 31, 1983, gage height, 8.29 ft; maximum gage height, 10.16 ft Jan. 2, 1983, result of an ice jam; minimum recorded, 17 ft³/s June 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 125 ft³/s May 15, gage height 4.86 ft; minimum daily discharge, 62 ft³/s July 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	78	e77	e68	e78	e69	75	109	102	67	71	69
2	81	76	e77	e68	e77	e70	83	111	96	68	73	67
3	80	76	e78	e70	e77	e73	88	110	90	71	72	68
4	81	76	e80	e70	e80	e75	91	109	86	70	70	68
5	81	75	e80	e70	e83	e76	90	107	86	70	69	68
6	82	76	e80	e70	e85	e75	90	105	87	67	65	68
7	85	78	e79	e68	e86	e73	91	105	84	68	65	69
8	87	80	e82	e68	e89	e70	91	108	86	68	68	70
9	89	e78	e79	e68	e85	e70	93	112	88	66	78	74
10	88	e75	e78	e68	e78	e70	97	116	83	64	84	72
11	86	e74	e78	e66	e75	e70	97	114	80	63	76	72
12	92	e74	e76	e66	e74	e70	95	109	78	63	71	75
13	88	e74	e72	e69	e74	e70	94	114	80	64	68	78
14	87	e74	e72	e70	e74	e72	85	118	78	66	69	79
15	87	e78	e75	e71	e74	e72	90	119	77	65	68	84
16	89	e82	e75	e69	e74	e72	93	115	77	66	68	82
17	90	e84	e72	e66	e74	e70	94	115	76	68	65	81
18	113	e85	e73	e68	e73	e70	94	109	76	67	63	82
19	101	e83	e72	e70	e72	e71	95	108	79	68	66	80
20	90	e83	e72	e74	e70	e70	96	110	82	65	70	82
21	86	e81	e71	e77	e70	e70	96	112	82	66	69	89
22	83	e80	e72	e77	e69	e72	99	109	84	68	67	82
23	82	e78	e72	e77	e68	e76	96	106	80	71	64	82
24	82	e76	e74	e76	e68	77	96	105	78	67	63	82
25	81	e75	e75	e71	e68	77	100	98	75	65	64	85
26	80	e76	e75	e70	e68	75	101	96	73	63	64	86
27	78	e76	e76	e70	e67	74	109	97	75	62	64	85
28	78	e75	e76	e70	e67	74	115	99	74	65	67	85
29	77	e75	e74	e74	---	74	113	96	72	67	67	86
30	77	e76	e72	e77	---	74	110	96	70	68	66	99
31	78	---	e70	e78	---	75	---	95	---	72	68	---
TOTAL	2646	2327	2334	2194	2097	2246	2857	3332	2434	2068	2122	2349
MEAN	85.4	77.6	75.3	70.8	74.9	72.5	95.2	107	81.1	66.7	68.5	78.3
MAX	113	85	82	78	89	77	115	119	102	72	84	99
MIN	77	74	70	66	67	69	75	95	70	62	63	67
AC-FT	5250	4620	4630	4350	4160	4450	5670	6610	4830	4100	4210	4660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1994, BY WATER YEAR (WY)

MEAN	131	104	110	111	119	118	170	307	212	139	123	122
MAX	378	243	372	362	336	238	360	1031	777	494	401	371
(WY)	1984	1984	1984	1984	1984	1984	1986	1984	1984	1984	1984	1984
MIN	72.5	71.0	59.1	56.6	64.0	72.5	81.9	85.5	74.2	66.7	68.5	76.5
(WY)	1992	1990	1993	1993	1993	1994	1992	1992	1992	1994	1994	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1984 - 1994	
ANNUAL TOTAL	45983		29006			
ANNUAL MEAN	126		79.5		147	
HIGHEST ANNUAL MEAN					443	1984
LOWEST ANNUAL MEAN					76.9	1992
HIGHEST DAILY MEAN	690	May 23	119	May 15	1640	May 16 1984
LOWEST DAILY MEAN	40	Jan 5	62	Jul 27	35	Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	51	Jan 4	64	Jul 9	51	Jan 4 1993
ANNUAL RUNOFF (AC-FT)	91210		57530		106700	
10 PERCENT EXCEEDS	207		98		326	
50 PERCENT EXCEEDS	88		76		97	
90 PERCENT EXCEEDS	62		67		70	

e Estimated

09288395 STARVATION RESERVOIR NEAR DUCHESNE, UT

LOCATION.--Lat 40°11'27", long 110°26'33", in NW¼NE¼SW¼ sec. 27, T. 3 S., R. 5 W., Uinta special base and meridian, Duchesne County, Hydrologic Unit 14060004, 2.8 mi northwest of Duchesne.

DRAINAGE AREA.--1,058 mi².

PERIOD OF RECORD.--May 1989 to September 1994 (discontinued).

GAGE.--Water-stage recorder equipped with satellite transmission. Datum of gage is 5,624.8 ft above sea level, (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam; active storage began Oct. 13, 1969. Active capacity, 152,310 acre-ft at elevation 5,712.00 ft above mean sea level. Dead storage, 15,000 acre-ft between elevation 5,565.0 ft (streambed at dam axis) and 5,624.8 ft (top of dead storage). Figures given herein represent active contents. Water is used for irrigation, fish and wildlife propogation along Strawberry River, and municipal and industrial use in Duchesne County.

COOPERATION.--Capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 154,600 acre-ft, June 14-16, 1993, elevation, 5,712.69 ft; minimum contents, 59,220 acre-ft Sept. 27, 28, 1990, elevation 5,674.89 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 153,600 acre-ft, Apr. 10, 13-14, elevation, 5,712.39 ft; minimum contents, 73,140 acre-ft Sept. 30, elevation 5,682.03 ft.

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

5,680	68,990	5,700	115,910
5,685	79,400	5,705	130,250
5,690	90,610	5,710	145,780
5,695	102,730	5,715	162,420

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e117100	118500	121100	127900	138500	148200	153100	149900	136900	118200	97610	81790
2	117000	118500	121200	128300	138700	148600	153200	149800	136600	117400	97000	81340
3	116900	118600	121200	128600	138900	149000	e153300	149600	136200	116600	96400	80840
4	e116700	118700	121300	129000	139200	149400	153300	149400	135800	115800	95840	80340
5	116600	118800	121400	129400	139500	149900	153300	149200	135400	115100	95220	79790
6	116500	118800	121500	129700	139900	150300	153300	148900	135000	114300	94570	79290
7	116400	118900	121600	130000	140300	150500	153400	148500	134500	113500	93940	78800
8	116400	119000	121700	130300	140700	150600	153400	148100	133800	112800	93300	78360
9	116300	119100	121800	130600	141100	150700	153400	147800	133300	112100	92830	77920
10	116300	119200	122000	131000	141400	150800	153500	147400	132700	111400	92440	77500
11	116300	119300	122100	131300	141900	150900	153500	147100	132100	110700	91950	77050
12	116300	119400	122200	131600	142200	151100	153600	146700	131500	109900	91410	76630
13	116400	119600	122300	131900	142400	151200	153600	e146400	130800	109100	90860	76270
14	116400	119700	122300	132300	142700	151300	153500	146000	130100	108400	90310	75930
15	116400	119800	122400	132700	143000	151400	153500	145800	129300	107700	89780	75560
16	116500	119900	122700	133000	143400	151600	153500	145500	128700	107000	89260	75300
17	116600	120000	123100	133400	143800	151800	153600	145100	128000	106300	88700	75100
18	116900	120100	123400	133800	144200	151900	153500	144700	127300	105700	88110	74900
19	117100	120200	123700	134000	e144500	152100	153400	144100	126600	105100	87550	74730
20	117200	120200	124000	134400	e144800	152200	153100	143500	126000	104400	87040	74570
21	117300	120300	124200	134700	e145200	152300	152800	143100	125400	103800	86500	74400
22	117400	120500	124500	135000	145600	152500	152400	142500	124700	103300	86000	74220
23	117600	120600	124800	135300	145800	152500	152000	141900	124000	102700	85840	74060
24	117700	120700	125100	135700	146100	152500	151600	141400	123300	102200	85730	73900
25	117800	120700	125400	136200	146600	152600	151200	140700	122600	101600	85610	73730
26	117900	120700	125700	136400	147000	152700	150800	140100	121900	101100	85310	73580
27	118000	120700	126100	136800	147400	152800	150600	139500	121100	e100500	84700	73420
28	118100	120800	126500	137200	147800	152900	150300	139000	120400	100000	84100	73300
29	118100	120800	126800	137500	---	153000	150200	138400	119700	99430	83520	73210
30	118200	120900	127200	137900	---	153000	150000	137800	118900	98840	82940	73210
31	118400	---	127500	138200	---	153100	---	137300	---	98200	82350	---
MAX	118400	120900	127500	138200	147800	153100	153600	149900	136900	118200	97610	81790
MIN	116300	118500	121100	127900	138500	148200	150000	137300	118900	98200	82350	73210
(#)	5700.9	5701.8	5704.1	5707.6	5710.6	5712.2	5711.3	5707.3	5701.1	5693.2	5686.3	5682.1
(*)	+1300	+2500	+6600	+10700	+9600	+5300	-3100	-12700	-18400	-20700	-15850	-9140

CAL YR 1993 . . . . . (*) +39600
WTR YR 1994 . . . . . (*) -43890

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.
(e) Estimated

09288400 STRAWBERRY RIVER BELOW STARVATION RESERVOIR NEAR DUCHESNE, UT

LOCATION.--Lat 40°10'26", long 110°25'44", in SW¼NE¼SE¼ of sec. 34, T. 3 S., R. 5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060004, on right bank, 1.4 mi downstream of Starvation Dam and 1.6 mi northwest of Duchesne.

DRAINAGE AREA.--1,059 mi².

PERIOD OF RECORD.--June 1989 to September 1994 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,540 ft above sea level, from topographic map.

REMARKS.--Records poor. Flow regulated by Starvation Reservoir (see station 09288395).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 536 ft³/s on June 15, 1993, gage height 7.32 ft; minimum daily discharge 10 ft³/s several days during January and February, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 438 ft³/s May 27, gage height 7.07 ft; minimum daily discharge, 14 ft³/s, Nov. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	21	22	19	20	20	e59	217	e310	e425	e372	e360
2	151	20	21	18	20	20	e64	218	e300	e425	e372	e360
3	179	21	19	18	20	20	e70	233	e289	e425	e370	e360
4	180	22	19	18	20	19	e75	236	e288	e425	e372	e355
5	180	20	20	19	21	20	e78	253	e287	e419	e372	e320
6	178	19	20	19	21	20	e80	272	e302	e410	e375	e320
7	180	18	19	e19	21	20	e82	288	e311	e410	e375	e313
8	156	20	20	19	21	20	e82	305	e311	e410	e375	e301
9	135	19	20	19	21	20	e86	327	e322	e410	e374	e299
10	135	18	21	19	21	20	e98	333	e332	e410	e374	e299
11	134	20	20	20	21	20	e107	349	e358	e409	e374	e299
12	116	20	20	22	21	20	e102	e348	e364	e409	e370	e287
13	82	20	e19	21	20	20	e98	348	e390	e409	e370	e281
14	71	19	18	21	20	19	e93	346	e389	e409	e367	e277
15	69	18	20	21	21	19	e86	e349	e391	e407	e355	e271
16	68	18	20	21	21	19	e101	e371	e391	e385	e350	e271
17	59	18	17	21	21	19	e132	393	e400	e372	e350	e209
18	25	19	18	21	21	20	e152	393	e412	e372	e358	e209
19	24	18	16	21	e21	19	e262	398	e413	e365	e365	e200
20	23	17	e15	21	e21	20	e263	399	e415	e362	e365	e183
21	22	17	e15	21	e20	19	e280	e399	e415	e362	e365	e165
22	22	20	e17	21	20	20	e310	399	e417	e350	e224	e165
23	22	19	19	21	20	20	e320	393	e416	e347	e120	e165
24	22	17	15	21	20	20	e320	396	e415	e340	e120	e165
25	22	15	e16	21	19	21	e322	386	e415	e342	e120	e165
26	19	14	17	20	20	23	e325	386	e412	e349	e322	e165
27	20	15	20	20	20	26	321	392	e409	e332	e360	e147
28	22	18	20	20	20	e34	297	367	e390	e348	e360	e132
29	19	20	18	20	---	e41	e238	355	e390	e366	e360	e146
30	17	20	20	21	---	e49	219	336	e400	e372	e360	e157
31	19	---	19	20	---	e54	---	315	---	e372	e360	---
TOTAL	2502	560	580	623	573	721	5122	10500	11054	11948	10426	7346
MEAN	80.7	18.7	18.7	20.1	20.5	23.3	171	339	368	385	336	245
MAX	180	22	22	22	21	54	325	399	417	425	375	360
MIN	17	14	15	18	19	19	59	217	287	332	120	132
AC-FT	4960	1110	1150	1240	1140	1430	10160	20830	21930	23700	20680	14570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1994, BY WATER YEAR (WY)

MEAN	90.1	18.2	16.5	14.9	16.3	18.2	130	317	335	376	329	236
MAX	147	20.6	18.7	20.1	20.5	23.3	185	404	398	432	349	272
(WY)	1992	1993	1994	1994	1994	1994	1992	1990	1992	1993	1993	1993
MIN	65.9	15.7	14.9	11.4	11.6	13.0	35.1	204	195	281	301	194
(WY)	1990	1990	1990	1990	1990	1990	1993	1993	1991	1992	1990	1991

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1990 - 1994	
ANNUAL TOTAL	55950		61955			
ANNUAL MEAN	153		170		159	
HIGHEST ANNUAL MEAN					171	1992
LOWEST ANNUAL MEAN					136	1991
HIGHEST DAILY MEAN	525	Jun 15	425	Jul 1	525	Jun 15 1993
LOWEST DAILY MEAN	13	Feb 4	14	Nov 26	10	Jan 4 1990
ANNUAL SEVEN-DAY MINIMUM	14	Jan 4	16	Dec 19	10	Jan 1 1990
ANNUAL RUNOFF (AC-FT)	111000		122900		115100	
10 PERCENT EXCEEDS	420		391		397	
50 PERCENT EXCEEDS	23		98		83	
90 PERCENT EXCEEDS	15		19		15	

e Estimated

09289500 LAKE FORK RIVER ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°36'24", long 110°31'35", in SW¼SE¼SE¼ 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 sea level, from topographic map. April 1933 to September 1934, at site 2.5 mi upstream at different datum. July 13, 1942 to Oct. 1, 1984, at datum 1.00 ft lower.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft³/s June 26, 1944, gage height, 5.27 ft, datum then in use, from rating curve extended above 700 ft³/s; minimum daily discharge, 12 ft³/s Apr. 7, 8, 13-15, 1993.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 30	2103	*1,040	*5.19	No other peak greater than base discharge.			

Minimum daily discharge, 16 ft³/s, Jan. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	40	e33	e27	e17	e19	e30	62	437	90	57	50
2	35	42	e32	e26	e18	e20	e29	61	447	88	55	49
3	34	38	e32	e25	e19	e20	e32	63	486	89	51	57
4	34	37	e32	e25	e20	e21	e33	68	459	85	49	50
5	34	38	e31	e25	e21	e20	e35	85	419	81	48	46
6	38	38	e32	e24	e21	e21	e34	118	375	76	45	46
7	44	e39	e31	e22	e22	e22	e34	155	303	73	45	47
8	40	e40	e30	e22	e23	e22	e33	163	243	71	45	45
9	41	e41	e29	e23	e24	e22	e35	188	224	68	79	45
10	40	e40	e29	e22	e24	e23	e37	248	233	65	74	43
11	43	e39	e30	e21	e23	e22	e36	354	261	63	76	43
12	44	e37	e29	e20	e22	e23	e38	466	254	61	62	53
13	45	e38	e29	e20	e22	e22	e40	483	241	59	60	60
14	46	e38	e28	e19	e23	e23	e40	600	227	58	62	63
15	46	e37	e29	e19	e24	e22	e41	624	202	57	56	56
16	42	e38	e29	e20	e24	e22	e43	621	187	56	53	50
17	44	e36	e29	e19	e25	e21	e45	449	171	56	52	48
18	45	e36	e28	e20	e24	e21	e48	310	158	54	58	46
19	43	e36	e29	e21	e23	e21	e50	281	155	53	135	46
20	43	e35	e30	e22	e22	e20	60	277	148	51	82	45
21	42	e34	e31	e21	e21	e20	72	249	157	50	75	45
22	42	e33	e29	e21	e20	e22	101	328	172	50	68	43
23	41	e32	e29	e21	e23	e22	112	424	143	51	63	42
24	42	e32	e28	e20	e27	e21	109	488	130	51	59	42
25	43	e31	e28	e19	e23	e23	101	699	121	53	56	41
26	39	e30	e28	e20	e20	e23	90	579	113	50	54	41
27	38	e31	e27	e20	e19	e23	81	467	106	49	53	40
28	40	e32	e28	e19	e20	e26	71	603	99	53	54	39
29	38	e33	e29	e18	---	e25	65	592	96	51	53	44
30	41	e33	e28	e17	---	e25	63	646	94	49	51	60
31	42	---	e27	e16	---	e28	---	571	---	58	50	---
TOTAL	1264	1084	913	654	614	685	1638	11322	6861	1919	1880	1425
MEAN	40.8	36.1	29.5	21.1	21.9	22.1	54.6	365	229	61.9	60.6	47.5
MAX	46	42	33	27	27	28	112	699	486	90	135	63
MIN	34	30	27	16	17	19	29	61	94	49	45	39
AC-FT	2510	2150	1810	1300	1220	1360	3250	22460	13610	3810	3730	2830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1994, BY WATER YEAR (WY)

MEAN	51.5	38.8	30.7	26.2	24.2	24.3	41.2	252	515	206	94.7	66.1
MAX	142	80.1	61.3	40.1	39.5	46.5	89.5	578	923	598	212	137
(WY)	1983	1983	1983	1983	1988	1988	1969	1969	1993	1965	1965	1965
MIN	26.3	22.9	15.0	14.8	14.7	15.0	18.6	65.9	186	61.9	46.5	32.1
(WY)	1989	1980	1993	1993	1993	1977	1993	1977	1992	1994	1988	1988

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1964 - 1994	
ANNUAL TOTAL	62753		30259			
ANNUAL MEAN	172		82.9		114	
HIGHEST ANNUAL MEAN					169	1983
LOWEST ANNUAL MEAN					60.4	1977
HIGHEST DAILY MEAN	1560	May 27	699	May 25	1710	Jun 11 1990
LOWEST DAILY MEAN	12	Apr 7	16	Jan 31	12	Feb 6 1989
ANNUAL SEVEN-DAY MINIMUM	13	Apr 10	18	Jan 28	13	Apr 10 1993
ANNUAL RUNOFF (AC-FT)	124500		60020		82800	
10 PERCENT EXCEEDS	661		211		291	
50 PERCENT EXCEEDS	39		41		43	
90 PERCENT EXCEEDS	14		21		22	

e Estimated

09290500 MOON LAKE RESERVOIR NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°33'43", long 110°29'21", in NW¼NE¼NE¼ 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 sea level, (levels by Bureau of Reclamation).

REMARKS.--Reservoir formed by earthfill, rock-faced dam with concrete core. Storage began Dec. 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 July 10, 11, 1950; elevation, 8,139.30 ft; minimum observed, 226 acre-ft Sept. 30, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 28,390 acre-ft June 1, elevation, 8,127.1 ft; minimum contents observed, 2,130 acre-ft Sept.1, elevation, 8,079.0 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Oct. 31	--	*16,360	+2,650
Nov. 30	--	*17,070	+710
Dec. 31	--	*19,020	+1,950
CAL YR 1993	--	--	+10,280
Jan. 31	--	*20,340	+1,320
Feb. 28	--	*21,760	+1,420
Mar. 31	--	*23,270	+1,510
Apr. 30	--	*22,680	-590
May 31	--	*28,170	+5,490
June 30	--	*19,210	-8,960
July 31	--	*2,920	-16,290
Aug. 31	--	*2,130	-790
Sept. 30	--	*3,810	+1,680
WTR YR 1994	--	--	-9,900

* No gage reading, contents interpolated.
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 $SW^1/_4SW^1/_4NW^1/_4$ 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 mi^2.

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-77-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,970 ft above sea level by barometer. Prior to April 1942, at damsite 2,000 ft upstream at different datum.

REMARKS.--Records fair. Flow regulated by Moon Lake Reservoir (see station 09290500). No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,180 ft^3/s June 19, 1949 (gage height, 4.83 ft), from rating curve extended above 860 ft^3/s; maximum gage height, 5.46 ft June 26, 1944; no flow at times when reservoir gates are closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 547 ft^3/s June 30 and July 1, gage height, 3.03 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	133	126	533	213	11
2	.00	.00	.00	.00	.00	.00	.00	164	229	527	196	11
3	.00	.00	.00	.00	.00	.00	.00	163	229	522	194	11
4	.00	.00	.00	.00	.00	.00	.00	162	165	517	191	12
5	.00	e.00	.00	.00	.00	.00	.00	162	139	513	191	12
6	.00	e27	.00	.00	.00	.00	.00	170	219	507	186	12
7	.00	e148	.00	.00	.00	.00	.00	177	263	502	136	12
8	.00	e143	.00	.00	.00	.00	.00	255	299	495	93	12
9	.00	e140	.00	.00	.00	.00	.00	419	320	491	84	12
10	.00	e139	.00	.00	.00	.00	.00	416	343	482	87	12
11	.00	91	.00	.00	.00	.00	.00	386	360	476	84	29
12	.00	.07	.00	.00	.00	.00	.00	202	359	471	79	47
13	.00	.00	.00	.00	.00	.00	.00	166	359	466	76	47
14	.00	.00	.00	.00	.00	.00	e.00	193	358	457	75	47
15	.00	.00	.00	.00	.00	.00	e34	194	357	452	73	46
16	.00	.00	.00	.00	.00	.00	e82	159	355	443	70	46
17	.00	.00	.00	.00	.00	.00	e90	162	382	413	68	46
18	.00	.00	.00	.00	.00	.00	e110	267	403	286	37	46
19	.00	.00	.00	.00	.00	.00	e125	381	403	256	13	25
20	.00	.00	.00	.00	.00	.00	125	379	398	255	12	.00
21	.00	.00	.00	.00	.00	.00	126	374	396	253	12	.00
22	.00	.00	.00	.00	.00	.00	126	375	394	251	12	.00
23	.00	.00	.00	.00	.00	.00	126	323	419	248	11	.00
24	.00	.00	.00	.00	.00	.00	126	286	452	246	11	.00
25	.00	.00	.00	.00	.00	.00	127	252	480	244	11	.00
26	.00	.00	.00	.00	.00	.00	127	158	483	242	11	.00
27	.00	.00	.00	.00	.00	.00	127	194	503	239	11	.00
28	.00	.00	.00	.00	.00	.00	127	256	508	235	11	.00
29	.00	.00	.00	.00	---	.00	127	204	513	233	11	.00
30	.00	.00	.00	.00	---	.00	127	143	538	231	11	.00
31	.00	---	.00	.00	---	.00	---	119	---	229	11	---
TOTAL	0.00	688.07	0.00	0.00	0.00	0.00	1832.00	7394	10752	11715	2281	496.00
MEAN	.000	22.9	.000	.000	.000	.000	61.1	239	358	378	73.6	16.5
MAX	.00	148	.00	.00	.00	.00	127	419	538	533	213	47
MIN	.00	.00	.00	.00	.00	.00	.00	119	126	229	11	.00
AC-FT	.00	1360	.00	.00	.00	.00	3630	14670	21330	23240	4520	984

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1994, BY WATER YEAR (WY)

MEAN	50.4	8.15	1.03	1.53	2.40	3.20	49.1	296	353	350	249	140
MAX	202	120	17.3	28.2	44.4	72.3	202	555	920	584	410	326
(WY)	1983	1966	1984	1984	1966	1966	1943	1969	1983	1965	1944	1984
MIN	.000	.000	.000	.000	.000	.000	.000	130	144	155	35.6	.000
(WY)	1991	1948	1943	1943	1943	1943	1944	1977	1945	1961	1989	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1943 - 1994	
ANNUAL TOTAL	44329.36		35158.07			
ANNUAL MEAN	121		96.3		126	
HIGHEST ANNUAL MEAN					211	1983
LOWEST ANNUAL MEAN					60.9	1977
HIGHEST DAILY MEAN	627	Jun 26	538	Jun 30	2000	Jun 19 1949
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 15 1942
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 15 1942
ANNUAL RUNOFF (AC-FT)	87930		69740		91290	
10 PERCENT EXCEEDS	351		377		361	
50 PERCENT EXCEEDS	.00		.00		16	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

09292500 YELLOWSTONE RIVER NEAR ALTONAH, UT

LOCATION.--Lat 40°30'43", long 110°20'27", in SW¼SW¼NE¼ 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.

GAGE.--Water-stage recorder. Elevation of gage is 7,430 ft above sea level, from river-profile map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Access to gaging station was denied in August, 1994.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,360 ft³/s June 11, 1990, gage height, 4.93 ft from rating curve extended above 1,000 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 25 ft³/s Nov. 28, 1976.

EXTREMES FOR CURRENT YEAR.--Recorded peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 31	0204	*384	*2.20				

Minimum recorded daily discharge, 35 ft³/s Jan. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	62	e57	e48	e38	44	45	65	e290	128	81	---
2	75	58	e56	e47	e39	45	43	60	e285	126	82	---
3	74	61	e56	e46	e40	45	44	64	e290	126	81	---
4	74	59	e57	e45	e43	47	45	63	e300	124	79	---
5	74	e62	e55	e45	e43	46	45	68	e280	123	76	---
6	76	64	e57	e44	e43	47	44	84	e254	116	72	---
7	85	70	e55	e43	e44	48	44	104	e245	111	70	---
8	82	72	e54	e43	e45	49	43	e115	e194	119	70	---
9	82	73	53	e44	e46	49	46	120	e180	135	84	---
10	80	e72	53	e43	e46	50	48	e175	e175	136	99	---
11	81	e70	54	e42	e45	49	46	e210	e170	132	e95	---
12	e81	65	53	e41	e44	50	47	292	e171	129	88	---
13	81	66	e52	e41	e44	49	50	e270	e168	125	86	---
14	82	66	e51	e40	e46	50	51	e295	e160	117	94	---
15	81	63	e52	e40	e48	49	e53	e320	e151	112	91	---
16	78	70	e52	e41	e49	e49	e55	e310	e145	101	---	---
17	78	68	e52	e41	e51	e46	e58	270	e136	98	---	---
18	84	67	e51	e42	e50	e45	e61	190	s135	96	---	---
19	78	66	e52	e43	e49	e45	e65	e172	e133	93	---	---
20	77	e64	e54	e44	e47	e44	68	e180	e134	91	---	---
21	75	e61	e53	e43	e45	e44	74	e155	e144	89	---	---
22	75	59	e52	e42	e44	e43	80	e200	167	87	---	---
23	72	58	e52	e42	e58	e42	92	e250	146	88	---	---
24	70	e56	e51	e39	e67	e41	90	e280	133	87	---	---
25	69	e54	e51	e38	53	43	83	e305	125	92	---	---
26	66	e52	e50	e40	44	42	80	e330	119	90	---	---
27	64	e53	e49	e39	43	42	e78	e317	114	85	---	---
28	67	e54	e50	e38	45	43	73	e300	110	e82	---	---
29	64	e55	e51	e37	---	42	69	e308	108	e80	---	---
30	61	e56	e50	e36	---	42	62	e320	130	78	---	---
31	62	---	e48	e35	---	44	---	333	---	79	---	---
TOTAL	2323	1876	1633	1292	1299	1414	1782	6525	5292	3275	---	---
MEAN	74.9	62.5	52.7	41.7	46.4	45.6	59.4	210	176	106	---	---
MAX	85	73	57	48	67	50	92	333	300	136	---	---
MIN	61	52	48	35	38	41	43	60	108	78	---	---
AC-FT	4610	3720	3240	2560	2580	2800	3530	12940	10500	6500	---	---

CAL YR 1993 TOTAL 49594 MEAN 136 MAX 742 MIN 29 AC-FT 98370

e Estimated

09295000 DUCHESNE RIVER AT MYTON, UT

LOCATION.--Lat 40°12'01", long 110°03'47", in NE¼NW¼NW¼ 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 sea level. Prior to Oct. 14, 1933, nonrecording gages at several sites within 0.5 mi of present site at various datums.

REMARKS.--Records fair 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, Hobble Creek ditch, and Strawberry River and Willow Creek ditch.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 12,800 ft³/s June 10, 1922, gage height, 7.94 ft site and datum then in use, from rating curve extended above 8,000 ft³/s; minimum, less than 1 ft³/s July 16, 1931, and for several days in August and September 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 259 ft³/s Nov. 22, gage height, 2.67 ft; minimum daily discharge, 15 ft³/s Apr. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	190	e216	e116	e86	93	66	41	40	42	34	36
2	24	191	e180	e135	e93	95	67	39	49	53	35	44
3	23	192	e162	e125	e97	119	68	31	59	68	39	44
4	23	190	e174	e137	e120	88	73	32	46	60	38	44
5	29	190	e174	e132	e120	81	78	27	41	58	36	39
6	35	186	e177	e110	e120	80	71	29	38	45	32	36
7	43	180	e182	e100	e141	151	43	21	32	36	27	27
8	46	184	e188	e100	e137	192	43	32	49	51	33	27
9	72	186	e189	e120	e117	185	42	37	34	47	54	23
10	69	192	e200	e137	e127	170	61	32	38	45	72	22
11	65	209	e192	e127	e127	122	81	29	36	41	49	23
12	76	217	e164	e127	e108	130	54	31	28	104	46	22
13	101	232	e135	e132	e107	125	15	33	39	58	48	28
14	105	237	e122	e148	e120	119	17	29	36	38	44	26
15	106	223	e113	e140	e135	118	18	28	35	33	44	18
16	112	211	e105	e140	e155	113	19	26	39	38	43	23
17	166	219	95	e140	e179	115	20	27	44	36	45	29
18	218	229	97	e153	e160	131	21	44	53	36	39	29
19	192	224	94	e143	e140	131	22	46	64	42	34	35
20	152	205	e90	e155	e120	134	25	44	80	41	32	43
21	144	218	e87	e160	e110	135	28	49	63	37	31	43
22	139	238	e83	e170	e97	98	25	44	57	33	36	39
23	135	245	e95	e162	e92	60	32	42	53	30	38	34
24	135	201	e90	e150	e102	53	44	49	45	27	34	35
25	138	199	e86	e170	e109	108	40	48	39	28	41	32
26	138	180	e95	e170	e111	121	46	43	43	29	43	22
27	138	e185	e103	e160	112	125	70	44	34	30	33	22
28	153	e190	e114	e132	96	123	71	49	39	31	33	25
29	210	e199	e100	e132	---	127	68	47	39	31	36	23
30	197	e210	e100	e110	---	67	55	42	37	32	37	48
31	188	---	e108	e80	---	67	---	34	---	38	38	---
TOTAL	3401	6152	4110	4213	3338	3576	1383	1149	1329	1318	1224	941
MEAN	110	205	133	136	119	115	46.1	37.1	44.3	42.5	39.5	31.4
MAX	218	245	216	170	179	192	81	49	80	104	72	48
MIN	23	180	83	80	86	53	15	21	28	27	27	18
AC-FT	6750	12200	8150	8360	6620	7090	2740	2280	2640	2610	2430	1870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1994, BY WATER YEAR (WY)

MEAN	234	288	305	293	317	362	384	1107	1682	416	170	181
MAX	1031	1055	1037	982	715	878	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	37.1	17.8	5.01	5.13	1.37
(WY)	1935	1991	1971	1991	1990	1990	1961	1994	1934	1961	1940	1934

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1912 - 1994	
ANNUAL TOTAL	51224		32134			
ANNUAL MEAN	140		88.0		478	
HIGHEST ANNUAL MEAN					1318	1922
LOWEST ANNUAL MEAN					52.0	1992
HIGHEST DAILY MEAN	1300	May 27	245	Nov 23	9690	Jun 20 1917
LOWEST DAILY MEAN	12	May 4	15	Apr 13	1.0	Jul 11 1931
ANNUAL SEVEN-DAY MINIMUM	20	Apr 29	19	Apr 13	1.0	Jul 11 1931
ANNUAL RUNOFF (AC-FT)	101600		63740		346100	
10 PERCENT EXCEEDS	225		186		1020	
50 PERCENT EXCEEDS	90		67		287	
90 PERCENT EXCEEDS	33		29		33	

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., Uinta 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, Ut.

DRAINAGE AREA.--157 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 7,330 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated discharges, which are poor. Flow regulated by Moon Lake Electric powerplant canal diversion about 0.75 mi upstream. Access to gaging station was denied in August, 1994.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,190 ft^3/s May 25, 1993, from rating curve extended above 1200 ft^3/s, gage height, 7.21 ft; minimum daily discharge, 11 ft^3/s Jan. 8, 19, 20, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 727 ft^3/s May 16, gage height, 6.78 ft; minimum recorded daily discharge, 23 ft^3/s, Feb. 25.

REVISIONS.--Revised daily discharges, in cubic feet per second, for April and May 1993, are given below. These figures supersede those published in the report for 1994.

Apr. 14 . . . 25	Apr. 17 . . . 28	Apr. 20 . . . 28	Apr. 23 . . . 41	Apr. 26 . . . 35	Apr. 29 . . . 40
15 . . . 27	18 . . . 31	21 . . . 30	24 . . . 37	27 . . . 39	30 . . . 33
16 . . . 27	19 . . . 32	22 . . . 35	25 . . . 34	28 . . . 43	

MONTH	TOTAL	MEAN	MAX	MIN	AC-FT
April	922	30.7	43	25	1830

May 1 . . . 29	May 6 . . . 31	May 11 . . . 39	May 16 . . 298	May 21 . . 1040	May 26 . . 977
2 . . . 28	7 . . . 30	12 . . . 61	17 . . 393	22 . . 1210	27 . . 990
3 . . . 28	8 . . . 29	13 . . . 87	18 . . 509	23 . . 1390	28 . . 1090
4 . . . 35	9 . . . 27	14 . . 127	19 . . 644	24 . . 1430	
5 . . . 34	10 . . . 29	15 . . 205	20 . . 803	25 . . 1410	

MONTH	TOTOAL	MEAN	MAX	MIN	AC-FT
May	16614	536	1430	27	32950
WTR YR 1993	56886	156	1430	19	112800

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	47	e36	e29	e29	25	29	50	405	---	---	---
2	50	59	e36	e29	e29	26	29	47	382	---	---	---
3	47	58	e34	e29	e29	27	30	50	369	---	---	---
4	45	36	e33	30	e29	28	30	49	374	---	---	---
5	45	35	e34	30	e29	28	28	58	345	---	---	---
6	44	35	e35	e29	e29	29	28	81	320	---	---	---
7	50	38	e35	e28	29	29	28	131	281	---	---	---
8	48	36	e35	e30	28	29	28	136	240	---	---	---
9	48	37	e36	e30	28	30	29	166	206	---	---	---
10	45	34	e35	e30	26	29	29	249	194	---	---	---
11	48	34	e36	e30	26	29	29	304	215	---	---	---
12	49	34	e35	e32	e27	29	30	314	223	---	---	---
13	46	35	e35	e35	e27	30	31	328	215	---	---	---
14	45	33	e35	e35	e27	32	32	386	218	---	---	---
15	43	36	e35	e37	26	32	33	453	196	---	---	---
16	39	41	e34	35	25	33	34	487	180	---	---	---
17	41	35	e34	e35	25	33	38	374	175	---	---	---
18	45	34	e34	e35	25	31	42	276	169	---	---	---
19	38	41	e34	e33	25	32	45	222	180	---	---	---
20	38	48	e34	e30	e25	31	48	201	174	---	---	---
21	36	42	e34	28	24	30	59	188	176	---	---	---
22	36	34	e34	27	24	30	79	246	183	---	---	---
23	34	36	e33	27	e25	30	104	323	172	---	---	---
24	34	e35	e32	26	25	29	97	326	178	---	---	---
25	36	e34	e32	26	23	28	78	404	185	---	---	---
26	36	e33	e31	26	24	30	64	410	182	---	---	---
27	33	e38	e31	25	24	28	62	364	179	---	---	---
28	36	e37	e32	26	24	30	57	431	173	---	---	---
29	34	e36	e30	e26	---	28	53	411	170	---	---	---
30	31	e36	e31	e28	---	29	46	431	---	---	---	---
31	36	---	e29	e29	---	29	---	479	---	---	---	---
TOTAL	1289	1147	1044	925	736	913	1349	8375	---	---	---	---
MEAN	41.6	38.2	33.7	29.8	26.3	29.5	45.0	270	---	---	---	---
MAX	53	59	36	37	29	33	104	487	---	---	---	---
MIN	31	33	29	25	23	25	28	47	---	---	---	---
AC-FT	2560	2280	2070	1830	1460	1810	2680	16610	---	---	---	---

CAL YR 1993 TOTAL 57198 MEAN 157 MAX 1430 MIN 19 AC-FT 113500

e Estimated

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT

LOCATION.--Lat 40°35'13", long 109°55'37", in SE¼NE¼NW¼ sec. 7, 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.--113 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 7,160 ft above sea level, from topographic map. Prior to Oct. 16, 1930, nonrecording gages at several sites within 2 mi of present site at various datums. Oct. 16, 1930 to Nov. 26, 1984, water-stage recorder at various sites and datums about 3 mi downstream.

REMARKS.--Records poor. Flow slightly regulated by small mountain lakes.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,640 ft³/s, June 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 13	2145	*540	*4.34				

Minimum daily discharge, 21 ft³/s, Jan. 23-25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e81	41	41	e33	24	26	e27	e52	e228	177	114	85
2	e79	34	41	e35	24	27	e27	e49	223	179	92	86
3	e78	e34	e38	e34	24	27	e28	e52	200	180	113	101
4	e75	35	e37	e35	24	27	e28	e64	e203	177	92	90
5	74	35	e39	e33	e24	27	e27	89	e193	175	79	82
6	75	37	40	e31	24	27	e26	148	186	170	69	79
7	72	41	40	e27	24	28	e26	186	179	166	65	77
8	e59	40	40	e27	24	28	e26	187	170	165	65	78
9	53	40	42	e27	25	28	e27	220	158	e159	e77	78
10	48	42	40	e26	24	28	e28	296	148	e152	89	76
11	51	44	41	e26	24	27	e27	354	e158	e147	75	76
12	52	45	40	e25	25	28	e28	389	140	e143	72	84
13	e52	e45	40	e25	25	28	e30	391	139	e140	85	94
14	e53	45	40	e25	25	e29	e31	409	138	e140	76	101
15	54	e46	40	e26	24	e29	e31	392	e138	e138	68	90
16	49	e50	39	e25	25	e30	e33	e370	134	e134	76	83
17	51	e49	40	e25	25	e30	e37	e277	131	e129	72	79
18	57	e48	39	e25	25	e28	e40	e216	131	e123	69	74
19	50	e52	39	e24	e26	e29	e43	e193	150	e117	132	71
20	48	e54	39	e23	e26	e28	e47	e181	151	e113	108	69
21	45	e46	39	e22	e26	e27	e65	e177	154	e110	100	68
22	45	e42	39	e22	26	e27	e86	e194	155	e105	91	65
23	44	e44	38	e21	26	e27	e112	e211	143	e114	84	62
24	43	e42	37	e21	26	e27	e101	e213	135	e122	79	60
25	43	e40	37	21	26	e25	e82	e212	127	e114	75	57
26	40	e39	36	22	26	e27	e68	e232	122	e114	74	54
27	38	44	36	23	27	e25	e64	e210	124	e113	76	53
28	42	e43	e37	23	26	e27	e58	e230	148	e112	83	e51
29	38	42	e35	23	---	e25	e54	e220	141	e109	91	60
30	33	e42	e35	23	---	e27	e48	e229	179	104	90	83
31	39	---	e33	24	---	e27	---	247	---	112	86	---
TOTAL	1661	1281	1197	802	700	850	1355	6890	4726	4253	2617	2266
MEAN	53.6	42.7	38.6	25.9	25.0	27.4	45.2	222	158	137	84.4	75.5
MAX	81	54	42	35	27	30	112	409	228	180	132	101
MIN	33	34	33	21	24	25	26	49	122	104	65	51
AC-FT	3290	2540	2370	1590	1390	1690	2690	13670	9370	8440	5190	4490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1994, BY WATER YEAR (WY)

MEAN	66.8	44.7	34.7	29.4	27.1	27.6	48.8	280	386	175	124	91.1
MAX	155	93.0	58.7	47.2	37.8	41.0	118	584	1178	535	238	190
(WY)	1939	1939	1942	1930	1930	1986	1962	1937	1983	1975	1984	1961
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

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1930 - 1994	
ANNUAL TOTAL	38906		28598			
ANNUAL MEAN	107		78.4		112	
HIGHEST ANNUAL MEAN					209	1983
LOWEST ANNUAL MEAN					42.0	1934
HIGHEST DAILY MEAN	854	May 27	409	May 14	2300	Jun 22 1983
LOWEST DAILY MEAN	17	Feb 25	21	Jan 23	14	Feb 24 1977
ANNUAL SEVEN-DAY MINIMUM	18	Feb 25	22	Jan 20	15	Jan 20 1991
ANNUAL RUNOFF (AC-FT)	77170		56720		80820	
10 PERCENT EXCEEDS	278		177		246	
50 PERCENT EXCEEDS	48		49		50	
90 PERCENT EXCEEDS	20		25		25	

e Estimated

09302000 DUCHESNE RIVER NEAR RANDLETT, UT

LOCATION.--Lat 40°12'56", long 109°46'58", in SW¼SW¼SW¼ 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 sea level. Prior to Aug. 23, 1944 at site 300 ft downstream at different datum. Aug. 23, 1944 to Sept. 4, 1964 at site 200 ft upstream at datum 1.87 ft higher. Sept. 5, 1964 to June 6, 1968 at site 700 ft upstream at datum 1.68 ft higher. June 7, 1968 to Aug. 31, 1970 at site 200 ft upstream at datum 1.87 ft higher. Sept. 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 poor. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to the Great Basin through Duchesne and Strawberry Tunnels, Hobble Creek ditch, Strawberry River, and Willow Creek Ditch. Access to gaging station was denied in July, 1994, all subsequent data subject to revision.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,500 ft³/s June 20, 1983; maximum gage height, 10.22 ft June 5, 1986; minimum, 2.2 ft³/s Aug. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 458 ft³/s Dec. 10, gage height, 3.65 ft; minimum daily discharge, 7.0 ft³/s Aug. 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	268	320	e220	e170	e230	100	84	91	e46	26	33
2	62	263	329	e220	e170	e230	102	89	86	e59	25	40
3	51	260	345	e230	e178	e250	101	82	97	e80	27	52
4	48	e260	338	e240	e190	e250	96	74	90	e84	28	61
5	56	e250	352	e250	e215	e230	98	73	79	86	18	63
6	67	e240	314	e200	e250	e240	96	65	75	83	16	40
7	103	e240	318	e180	e275	e260	89	63	61	57	10	38
8	116	243	323	e182	e285	e280	82	54	49	47	7.0	37
9	198	247	354	e190	e260	e240	83	69	71	51	13	45
10	211	246	e340	e200	e270	e220	102	74	45	48	56	54
11	206	269	e330	e190	e250	e195	137	79	55	45	58	58
12	199	278	e345	e180	e200	e180	128	76	60	44	43	58
13	213	310	e350	e172	e185	e170	84	66	67	97	39	64
14	221	326	e320	e180	e215	e155	62	60	62	53	46	69
15	220	308	e350	e180	e220	153	56	65	49	48	42	56
16	228	e280	e325	e180	e230	141	55	53	33	43	40	36
17	269	e285	e290	e188	e235	132	54	44	34	49	35	42
18	368	e310	e300	e190	e250	142	46	68	32	57	31	40
19	380	e300	e280	e180	e250	146	41	71	54	50	27	39
20	294	e280	e260	e190	e240	149	41	65	80	55	31	51
21	250	e295	e270	e180	e260	150	43	64	96	50	46	54
22	247	e315	e250	e190	e230	139	46	69	65	39	41	54
23	232	e330	e260	e182	e200	110	44	67	67	30	46	50
24	225	e320	e270	e190	e220	98	52	70	46	29	45	51
25	230	e295	e260	e230	e250	107	63	76	45	e28	31	51
26	223	e288	e270	e260	e230	146	60	74	46	e22	30	49
27	221	e270	e280	e290	e210	149	74	67	e43	e13	31	36
28	234	268	e285	e270	e220	146	98	84	e41	12	24	39
29	283	311	e300	e225	---	146	100	94	e43	14	27	42
30	279	326	e240	e205	---	119	100	86	e42	15	33	86
31	265	---	e200	e180	---	94	---	81	---	12	33	---
TOTAL	6291	8481	9368	6344	6358	5397	2333	2206	1804	1446	1005.0	1488
MEAN	203	283	302	205	227	174	77.8	71.2	60.1	46.6	32.4	49.6
MAX	380	330	354	290	285	280	137	94	97	97	58	86
MIN	48	240	200	172	170	94	41	44	32	12	7.0	33
AC-FT	12480	16820	18580	12580	12610	10700	4630	4380	3580	2870	1990	2950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1994, BY WATER YEAR (WY)

MEAN	299	382	410	401	443	492	419	1022	1881	468	206	197
MAX	1529	1443	1352	1246	964	1202	1865	4938	7988	2840	926	975
(WY)	1984	1984	1984	1984	1984	1983	1952	1952	1983	1965	1965	1965
MIN	52.9	42.6	39.6	43.3	52.6	88.4	28.5	47.5	50.0	10.1	9.91	18.9
(WY)	1990	1990	1990	1990	1990	1990	1961	1961	1961	1961	1961	1960

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1943 - 1994	
ANNUAL TOTAL	88188		52521.0			
ANNUAL MEAN	242		144		551	
HIGHEST ANNUAL MEAN					1736	1983
LOWEST ANNUAL MEAN					76.4	1990
HIGHEST DAILY MEAN	2910	May 28	380	Oct 19	11500	Jun 20 1983
LOWEST DAILY MEAN	32	Jul 21	7.0	Aug 8	3.2	Aug 9 1961
ANNUAL SEVEN-DAY MINIMUM	45	Jul 17	16	Jul 26	4.2	Aug 7 1961
ANNUAL RUNOFF (AC-FT)	174900		104200		398900	
10 PERCENT EXCEEDS	363		286		1120	
50 PERCENT EXCEEDS	140		98		338	
90 PERCENT EXCEEDS	64		38		56	

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.

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 June 22, 1983.
WATER TEMPERATURES: Maximum, 29.0°C several days during 1982, 1989, 1991, 1992, 1994; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,980 microsiemens July 30, 31; minimum daily, 880 microsiemens, Dec. 5.
WATER TEMPERATURES: Maximum, 29.0°C July 27; minimum, 0.0°C many days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT , 1993											
04...	1715	53	2030	8.4	28.0	16.0	9.6	640	740	150	89
NOV											
01...	1430	275	1250	8.6	21.0	6.5	--	--	410	88	47
DEC											
06...	1650	315	1020	8.4	-1.0	0.0	12.7	643	350	79	38
JAN , 1994											
10...	1215	200	1200	8.7	7.0	0.0	12.2	650	410	90	46
FEB											
14...	1540	215	1080	8.5	1.0	0.0	--	650	340	70	39
APR											
25...	1300	66	2130	8.4	15.0	15.0	9.4	632	630	130	75
JUL											
27...	0921	13	2290	8.5	25.0	24.0	7.0	643	640	120	82

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT , 1993										
04...	280	45	4	3.6	720	110	0.80	9.5	1530	1540
NOV										
01...	110	37	2	2.3	360	47	0.50	12	852	806
DEC										
06...	77	32	2	1.5	270	34	0.40	11	664	651
JAN , 1994										
10...	110	36	2	2.1	310	44	0.50	11	802	765
FEB										
14...	93	37	2	1.8	290	39	0.40	10	694	675
APR										
25...	270	48	5	3.8	750	110	0.70	9.6	1540	1520
JUL										
27...	310	51	5	4.8	720	140	0.70	14	--	1590

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT , 1993										
04...	2.08	220	--	--	<0.010	--	<0.050	0.030	0.04	<0.010
NOV										
01...	1.16	633	0.061	--	<0.010	0.061	0.061	0.020	0.03	<0.010
DEC										
06...	0.90	565	0.230	--	<0.010	0.230	0.230	0.020	0.03	<0.010
JAN , 1994										
10...	1.09	433	0.260	0.260	0.020	0.280	0.280	0.020	0.03	<0.010
FEB										
14...	0.94	403	0.210	--	<0.010	0.210	0.210	0.020	0.03	<0.010
APR										
25...	2.09	272	--	--	<0.010	--	<0.050	0.020	0.03	<0.010
JUL										
27...	2.16	56.2	--	--	<0.010	--	<0.050	0.050	0.06	<0.010

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)
OCT , 1993			
04...	1715	1100	<1
NOV			
01...	1430	490	<1
DEC			
06...	1650	320	<1
JAN , 1994			
10...	1215	510	<1
FEB			
14...	1540	450	<1
APR			
25...	1300	980	<1

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1940	1230	940	1160	1330	1410	1580	2400	2130	2740	2710	2050
2	1940	1160	970	1150	1290	1430	2610	2420	2000	2730	2690	2030
3	2140	1140	970	1150	1300	1480	1700	2280	2060	2250	2400	2110
4	2140	1230	880	1280	1180	1440	1710	2230	2060	2250	2380	2120
5	2040	1160	980	1070	1240	1240	1670	2450	2150	2240	2210	1900
6	2030	1180	960	1070	1080	1490	1700	2450	2090	1920	2480	1650
7	2050	1180	1020	1140	1110	1490	1700	2640	2130	1950	2460	1790
8	1940	1280	1060	1280	1070	1440	1960	2560	2190	1890	2540	1990
9	2010	1180	1040	1260	990	1090	2000	2550	2040	1930	2250	1810
10	1730	1210	990	1150	980	1090	1550	2450	2190	2160	1800	1830
11	1790	1180	1020	1210	1050	1150	1940	2370	2160	2160	1910	1770
12	1630	1170	900	1200	1040	1290	2620	2430	2060	2450	2010	1780
13	1570	1160	980	---	1070	1300	2300	2190	1980	1720	1910	1760
14	1520	1360	1100	1130	1200	1320	2050	2190	1910	2000	2030	1750
15	1600	1290	1140	1130	1220	1430	2300	2210	1910	2340	2600	1800
16	1480	1200	1130	1120	1140	1430	2330	2210	2150	1980	1990	1890
17	1640	1220	1680	1090	1060	1410	2700	2290	2140	1990	2020	2070
18	1590	1250	1520	1130	1110	1400	2700	2350	2010	2020	2010	2070
19	1480	1280	1580	1110	1060	1360	2870	2020	2000	1860	2080	2160
20	1520	1250	1480	1220	1220	1350	2920	2120	1920	1890	2140	2370
21	1440	1210	1750	1080	1290	1400	2890	2040	1860	1820	2170	2370
22	1400	1300	1780	1070	1310	1310	2770	2150	2170	1960	1900	2070
23	1360	1160	1750	1130	1260	1670	2750	2130	1790	2130	1870	2140
24	1360	1080	1620	1040	1170	1470	2400	2260	2210	2600	1870	2240
25	1390	1770	1320	1060	1170	1640	2340	2210	2310	2600	1880	2250
26	1410	1410	1340	1060	1100	1330	2390	2210	2340	2630	1820	1910
27	1340	1430	1240	1060	1240	1330	2240	2130	2340	2690	2040	2030
28	1350	1210	1180	1070	1230	1330	2210	2140	2420	2750	2020	2160
29	1270	1050	1120	1220	---	1530	2450	2030	2470	2750	2070	2180
30	1180	980	1180	1220	---	1530	2430	2030	2730	2980	2070	2270
31	1230	---	1160	1320	---	1590	---	2120	---	2980	2150	---
MEAN	1629	1230	1219	1146	1161	1393	2259	2266	2130	2270	2145	2011

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	8.0	.0	.0	.0	.0	13.0	16.0	17.0	26.0	24.0	18.0
2	17.0	7.0	.0	.0	.0	.0	13.0	18.0	24.0	26.0	24.0	23.0
3	17.0	5.0	.0	.0	.0	.0	14.0	18.0	20.0	22.0	28.0	18.0
4	17.0	7.0	.0	.0	.0	.0	14.0	18.0	25.0	22.0	24.0	18.0
5	17.0	7.0	.0	.0	.0	.0	13.0	16.0	25.0	21.0	23.0	24.0
6	16.0	5.0	.0	.0	.0	.0	13.0	16.0	19.0	20.0	23.0	20.0
7	16.0	5.0	.0	.0	.0	.0	9.0	14.0	18.0	21.0	24.0	18.0
8	13.0	4.0	.0	.0	.0	.0	12.0	14.0	15.0	21.0	24.0	18.0
9	13.0	5.0	.0	.0	.0	.0	11.0	15.0	16.0	26.0	23.0	19.0
10	12.0	4.0	.0	.0	.0	.0	13.0	15.0	24.0	26.0	26.0	19.0
11	11.0	5.0	.0	.0	.0	---	14.0	16.0	24.0	26.0	24.0	18.0
12	11.0	4.0	.0	.0	.0	---	14.0	17.0	20.0	20.0	28.0	18.0
13	11.0	6.0	.0	.0	.0	---	11.0	21.0	19.0	20.0	28.0	19.0
14	13.0	5.0	.0	.0	.0	---	11.0	21.0	19.0	21.0	28.0	20.0
15	13.0	5.0	.0	.0	.0	---	17.0	19.0	19.0	24.0	23.0	18.0
16	11.0	4.0	.0	.0	.0	---	16.0	18.0	20.0	23.0	27.0	19.0
17	10.0	4.0	.0	.0	.0	---	18.0	15.0	20.0	24.0	25.0	19.0
18	10.0	4.0	.0	.0	.0	---	18.0	14.0	20.0	22.0	25.0	19.0
19	10.0	4.0	.0	.0	.0	10.0	17.0	20.0	20.0	21.0	26.0	18.0
20	11.0	3.0	.0	.0	.0	11.0	17.0	21.0	21.0	21.0	26.0	18.0
21	11.0	.0	.0	.0	.0	12.0	17.0	21.0	22.0	28.0	26.0	19.0
22	9.0	.0	.0	.0	.0	8.0	15.0	20.0	23.0	26.0	26.0	19.0
23	9.0	.0	.0	.0	.0	12.0	16.0	17.0	28.0	22.0	26.0	14.0
24	11.0	.0	.0	.0	.0	12.0	18.0	18.0	24.0	23.0	26.0	15.0
25	12.0	.0	.0	.0	.0	13.0	14.0	19.0	24.0	23.0	26.0	15.0
26	12.0	.0	.0	.0	.0	11.0	14.0	23.0	25.0	23.0	26.0	19.0
27	9.0	.0	.0	.0	.0	11.0	12.0	21.0	25.0	29.0	26.0	19.0
28	9.0	.0	.0	.0	.0	8.0	10.0	20.0	22.0	24.0	26.0	18.0
29	8.0	.0	.0	.0	---	11.0	14.0	18.0	24.0	24.0	23.0	16.0
30	4.0	.0	.0	.0	---	13.0	15.0	19.0	24.0	25.0	23.0	17.0
31	8.0	---	.0	.0	---	13.0	---	19.0	---	25.0	21.0	---
MEAN	12.0	3.5	.0	.0	.0	6.5	14.0	18.0	21.5	23.5	25.0	18.5

09306500 WHITE RIVER NEAR WATSON, UTAH

LOCATION.--Lat 39°58'46", long 109°10'41", in SE¼SW¼NE¼ sec. 2, T. 10 S., R. 24 E., Uintah County, Hydrologic Unit 14050007, on right 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 sea level. See WSP 1733 for history of changes prior to Oct. 27, 1959.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 31,900 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 8,160 ft³/s July 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
June 2	1400	*1,420	*3.87				

Minimum daily discharge, 65 ft³/s Aug. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	379	422	510	e310	e230	e440	363	551	1010	190	177	158
2	385	454	527	e330	e220	e430	369	496	1290	186	185	167
3	396	473	452	e350	e260	e430	407	460	1290	212	247	165
4	393	455	432	e375	e310	e430	412	443	1120	261	166	199
5	272	464	441	e390	e390	e430	401	502	1010	261	129	209
6	327	466	454	e350	e400	e450	421	416	965	235	110	203
7	435	440	442	e290	e400	e440	403	448	879	209	84	181
8	481	429	408	e310	e390	e450	408	595	783	204	68	174
9	708	418	410	e310	e340	e450	421	700	697	191	154	180
10	682	416	441	e305	e350	e455	412	736	627	161	291	189
11	598	433	440	e295	e250	469	409	734	373	146	243	192
12	544	462	422	e270	e230	442	408	751	614	155	185	212
13	519	528	412	e280	e230	430	397	832	417	161	156	219
14	553	520	341	e300	e270	424	377	943	432	149	134	259
15	558	522	265	e300	e290	424	382	966	353	145	117	287
16	610	442	283	e300	e300	397	391	905	344	145	108	308
17	590	442	316	e300	e320	409	387	956	311	170	101	292
18	576	408	e300	e290	e335	419	404	1070	288	186	95	268
19	596	424	e290	e310	e345	410	456	1120	240	184	85	240
20	573	421	e310	e300	e350	416	764	1060	216	174	71	234
21	537	374	e285	e300	e350	424	672	1040	242	174	65	244
22	511	377	e280	e305	e330	403	551	974	268	169	137	249
23	404	456	e275	e300	e380	394	619	944	290	166	143	254
24	450	489	e300	e360	e430	396	483	966	383	172	143	245
25	590	444	e270	e350	e420	409	645	956	354	202	145	245
26	506	358	e300	e420	e400	402	785	865	286	219	139	248
27	479	258	e330	e430	e430	393	822	771	249	215	125	241
28	461	285	e370	e350	e450	384	715	815	225	204	141	228
29	465	328	e375	e305	---	357	634	794	205	204	151	228
30	479	434	e320	e250	---	356	570	949	206	194	148	325
31	466	---	e290	e220	---	376	---	985	---	201	146	---
TOTAL	15523	12842	11291	9855	9400	12939	14888	24743	15967	5845	4389	6843
MEAN	501	428	364	318	336	417	496	798	532	189	142	228
MAX	708	528	527	430	450	469	822	1120	1290	261	291	325
MIN	272	258	265	220	220	356	363	416	205	145	65	158
AC-FT	30790	25470	22400	19550	18640	25660	29530	49080	31670	11590	8710	13570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1994, BY WATER YEAR (WY)

MEAN	464	425	362	356	427	582	709	1581	1793	701	474	432
MAX	1029	713	600	580	1414	1180	2466	3537	4018	2923	1915	1917
(WY)	1930	1930	1926	1926	1986	1939	1929	1929	1929	1929	1929	1929
MIN	243	287	230	160	246	336	368	384	227	109	142	208
(WY)	1964	1935	1931	1937	1949	1952	1961	1977	1934	1934	1994	1955

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1924 - 1994	
ANNUAL TOTAL	326930		144525			
ANNUAL MEAN	896		396		692	
HIGHEST ANNUAL MEAN					1736	1929
LOWEST ANNUAL MEAN					308	1977
HIGHEST DAILY MEAN	4570	May 23	1290	Jun 2	8160	Jul 15 1929
LOWEST DAILY MEAN	200	Jan 5	65	Aug 21	13	Jul 3 1977
ANNUAL SEVEN-DAY MINIMUM	242	Jan 1	92	Aug 15	33	Jun 28 1977
ANNUAL RUNOFF (AC-FT)	648500		286700		501600	
10 PERCENT EXCEEDS	2380		698		1560	
50 PERCENT EXCEEDS	487		375		441	
90 PERCENT EXCEEDS	300		168		286	

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 (discontinued).
WATER TEMPERATURES: December 1950 to September 1979, October 1986 to September 1993 (discontinued).
SUSPENDED-SEDIMENT DISCHARGE: October 1976 to June 1979, October 1985 to September 1990.

INSTRUMENTATION.--Water-quality monitor November 1985 to September 1993 (discontinued).

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 TEMPERATURES: Maximum recorded, 33.0°C July 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 Sept. 7, 8, 1989.
SEDIMENT LOADS: Maximum daily, 121,000 tons Aug. 8, 1987; minimum daily, 12 tons Sept. 7, 8, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 1993											
05...	1130	265	760	8.5	32.0	13.0	9.2	639	290	67	30
NOV											
03...	1200	468	760	8.4	9.0	5.0	--	--	280	67	28
DEC											
07...	1330	506	820	8.7	4.0	0.0	13.2	643	300	73	29
JAN 1994											
11...	0915	295	850	8.7	-1.0	-0.5	12.4	647	260	64	25
MAR											
18...	0930	502	870	8.6	12.5	6.0	10.2	632	300	67	32
APR											
26...	0900	752	735	8.5	9.0	11.5	8.9	629	260	63	26
MAY											
19...	1045	1230	470	8.4	23.0	15.5	8.1	633	180	45	16
JUN											
24...	0915	397	580	8.5	29.0	21.5	7.8	638	250	64	21
JUL											
28...	1730	209	765	8.5	34.0	27.0	6.7	635	270	58	31
AUG											
25...	1015	145	860	8.6	31.0	23.0	7.3	638	300	62	35

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT 1993											
05...	54	29	1	1.6	190	14	0.30	11	478	483	0.65
NOV											
03...	54	29	1	1.6	200	13	0.30	12	486	486	0.66
DEC											
07...	56	29	1	1.2	210	14	0.30	14	518	516	0.70
JAN 1994											
11...	48	28	1	1.4	210	14	0.30	15	544	504	0.74
MAR											
18...	69	33	2	2.5	240	18	0.20	12	574	559	0.78
APR											
26...	51	29	1	1.7	190	14	0.20	13	474	466	0.64
MAY											
19...	27	25	0.9	1.4	97	7.7	0.20	13	300	289	0.41
JUN											
24...	33	22	0.9	1.8	120	11	0.20	12	342	365	0.47
JUL											
28...	55	30	1	2.1	190	17	0.30	8.5	492	469	0.67
AUG											
25...	71	34	2	2.9	220	23	0.30	5.3	540	537	0.73

09306500 WHITE RIVER NEAR WATSON, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT , 1993										
05...	342	0.080	--	<0.010	0.080	0.080	0.030	0.04	<0.010	--
NOV										
03...	614	--	--	<0.010	--	<0.050	0.020	0.03	<0.010	--
DEC										
07...	708	0.170	--	<0.010	0.170	0.170	0.020	0.03	<0.010	--
JAN , 1994										
11...	433	0.360	0.360	0.010	0.370	0.370	0.040	0.05	<0.010	--
MAR										
18...	778	0.270	0.270	0.010	0.280	0.280	0.050	0.06	0.010	0.03
APR										
26...	962	0.087	--	<0.010	0.087	0.087	0.020	0.03	<0.010	--
MAY										
19...	996	0.081	--	<0.010	0.081	0.081	0.030	0.04	<0.010	--
JUN										
24...	367	--	--	<0.010	--	<0.050	0.020	0.03	<0.010	--
JUL										
28...	278	--	--	<0.010	--	<0.050	0.020	0.03	<0.010	--
AUG										
25...	211	--	--	<0.010	--	<0.050	<0.010	--	<0.010	--

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)
OCT , 1993			
05...	1130	60	1
NOV			
03...	1200	60	1
DEC			
07...	1330	60	1
JAN , 1994			
11...	0915	60	1
MAR			
18...	0930	70	1
APR			
26...	0900	50	1
MAY			
19...	1045	30	<1
JUN			
24...	0915	50	<1
JUL			
28...	1730	70	<1
AUG			
25...	1015	90	<1

09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW, UT
(Transmountain diversion)

LOCATION.--Lat 39°40'03", long 111°18'41", in NW¼NW¼NE¼ 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 sea level, 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 June 17, 1993, gage height, 2.46 ft; no flow many days each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e.00	e.08	.00	15	8.0	4.8
2	---	---	---	---	---	---	e.00	e.10	.00	16	7.8	4.7
3	---	---	---	---	---	---	e.00	e.12	.62	15	7.8	4.6
4	---	---	---	---	---	---	e.00	e.16	1.8	15	7.6	4.5
5	---	---	---	---	---	---	e.00	e.18	4.2	15	7.5	4.5
6	---	---	---	---	---	---	e.00	e.21	6.3	14	7.4	4.4
7	---	---	---	---	---	---	e.00	e.23	5.7	14	7.3	3.2
8	---	---	---	---	---	---	e.00	e.21	5.5	14	7.7	2.3
9	---	---	---	---	---	---	e.00	e.21	9.0	15	7.6	2.6
10	---	---	---	---	---	---	e.00	e.22	12	18	7.4	3.7
11	---	---	---	---	---	---	e.00	e.23	12	19	7.2	4.2
12	---	---	---	---	---	---	e.00	e.24	11	19	7.0	3.8
13	---	---	---	---	---	---	e.00	e.25	11	19	6.9	1.8
14	---	---	---	---	---	---	e.00	e.27	11	20	6.8	.79
15	---	---	---	---	---	---	e.00	e.30	10	21	6.5	.69
16	---	---	---	---	---	---	e.00	e.30	8.1	21	6.7	.64
17	---	---	---	---	---	---	e.00	e.28	8.4	20	6.6	.59
18	---	---	---	---	---	---	e.00	e.28	9.6	20	6.5	.55
19	---	---	---	---	---	---	e.00	.34	11	20	5.0	.55
20	---	---	---	---	---	---	e.00	.30	13	20	4.5	1.4
21	---	---	---	---	---	---	e.02	.30	12	20	4.2	.52
22	---	---	---	---	---	---	e.04	.32	12	20	3.7	.49
23	---	---	---	---	---	---	e.06	.34	12	20	5.0	.49
24	---	---	---	---	---	---	e.08	.35	12	18	5.6	.43
25	---	---	---	---	---	---	e.12	.36	11	13	5.5	e.25
26	---	---	---	---	---	---	e.10	.40	12	12	5.4	e.20
27	---	---	---	---	---	---	e.08	.30	12	8.5	5.4	e.15
28	---	---	---	---	---	---	e.06	.18	14	8.4	5.1	e.10
29	---	---	---	---	---	---	e.04	.19	15	8.3	5.2	e.05
30	---	---	---	---	---	---	e.04	.09	16	8.2	5.1	e.01
31	---	---	---	---	---	---	---	.00	---	8.1	4.9	---
TOTAL	---	---	---	---	---	---	0.64	7.34	278.22	494.5	194.9	57.00
MEAN	---	---	---	---	---	---	.021	.24	9.27	16.0	6.29	1.90
MAX	---	---	---	---	---	---	.12	.40	16	21	8.0	4.8
MIN	---	---	---	---	---	---	.00	.00	.00	8.1	3.7	.01
AC-FT	---	---	---	---	---	---	1.3	15	552	981	387	113

e Estimated

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT

LOCATION.--Lat 39°42'57", long 111°17'58", in NW¼SE¼SW¼ 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 sea level, 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 Boulger 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, Sept. 23-26, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 169 ft³/s May 13, gage height, 2.26 ft; minimum daily discharge, 2.7 ft³/s Jan. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	4.5	4.7	3.1	e2.9	3.5	4.5	21	43	6.9	4.1	4.2
2	3.8	4.1	4.7	3.1	e2.9	3.5	4.5	21	36	6.9	4.3	4.2
3	3.9	4.6	4.5	3.1	e3.0	3.5	e4.5	27	32	7.2	4.1	4.2
4	3.9	4.4	4.5	3.2	e3.1	3.6	e4.4	40	29	6.7	4.1	4.2
5	3.7	4.7	4.5	3.4	3.1	3.8	e4.8	72	25	6.5	4.1	4.2
6	5.4	4.2	4.4	e3.2	3.0	3.8	4.8	97	23	5.6	4.0	4.2
7	5.5	4.3	4.4	3.4	e3.0	3.8	e4.8	106	23	5.7	4.0	4.2
8	7.3	4.2	4.5	3.4	e3.2	4.2	e4.5	87	21	5.8	4.0	4.0
9	6.5	3.8	4.5	3.3	e3.0	4.0	4.6	89	19	5.8	4.0	4.1
10	5.0	3.9	4.3	3.3	3.2	e3.7	e4.4	99	18	5.5	4.1	4.1
11	5.4	3.9	4.2	3.4	e3.1	3.8	4.3	111	18	5.2	4.2	4.0
12	7.4	4.3	e4.2	3.3	e3.1	4.0	4.7	128	17	4.9	4.3	4.0
13	5.6	4.9	e4.1	3.3	3.3	4.1	5.1	136	15	5.0	4.5	4.0
14	4.9	4.7	4.5	3.3	3.3	4.1	7.3	122	14	4.8	4.3	4.0
15	5.0	4.3	4.5	3.3	e3.3	e3.8	9.2	113	14	5.0	4.4	4.0
16	5.7	4.4	4.6	3.3	3.3	4.0	12	117	13	4.8	4.3	4.0
17	5.4	4.4	4.7	3.3	3.4	4.2	17	104	13	4.6	4.2	4.0
18	7.2	4.6	4.6	3.3	e3.3	4.3	20	89	13	4.5	4.1	4.0
19	6.8	4.3	4.5	3.5	e3.3	4.3	26	80	13	4.5	4.2	4.0
20	5.3	4.2	e4.2	3.4	e3.2	4.3	37	73	13	4.3	4.9	4.1
21	4.8	4.2	e3.9	3.4	e3.1	e4.1	45	67	13	4.4	5.7	4.0
22	4.7	e4.2	e3.6	3.4	e3.0	4.1	72	62	13	4.3	5.5	4.1
23	4.6	e4.5	3.7	3.2	e2.9	e3.9	78	59	12	4.4	4.8	4.1
24	4.7	e4.4	3.8	3.1	e3.3	4.1	56	57	11	4.5	4.5	4.0
25	4.6	e4.3	3.5	3.1	3.5	4.2	40	55	11	4.4	4.3	4.1
26	4.2	e4.2	3.5	3.2	3.5	e3.8	31	55	10	4.3	4.3	4.1
27	4.4	e4.3	3.6	3.3	3.6	4.0	26	54	10	4.3	4.2	4.1
28	4.7	4.6	3.5	e3.1	3.6	e3.7	24	50	10	4.3	4.3	4.1
29	4.2	4.6	3.5	e3.1	---	4.1	21	44	8.7	4.3	4.3	4.2
30	4.2	4.5	e3.4	e2.9	---	e4.3	20	40	7.3	4.3	4.2	4.2
31	4.3	---	3.3	e2.7	---	e4.5	---	45	---	4.3	4.3	---
TOTAL	157.0	130.5	128.4	100.4	89.5	123.1	601.4	2320	518.0	158.0	134.6	122.7
MEAN	5.06	4.35	4.14	3.24	3.20	3.97	20.0	74.8	17.3	5.10	4.34	4.09
MAX	7.4	4.9	4.7	3.5	3.6	4.5	78	136	43	7.2	5.7	4.2
MIN	3.7	3.8	3.3	2.7	2.9	3.5	4.3	21	7.3	4.3	4.0	4.0
AC-FT	311	259	255	199	178	244	1190	4600	1030	313	267	243

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1994, BY WATER YEAR (WY)

MEAN	4.90	4.56	3.80	3.46	3.40	4.19	18.5	99.2	59.3	13.6	7.20	5.00
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	.65	1.92	1.81	1.40	1.40	2.13	3.37	12.9	9.35	3.75	1.96	1.89
(WY)	1979	1991	1960	1960	1960	1963	1975	1977	1992	1977	1977	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1941 - 1994	
ANNUAL TOTAL	8793.8		4583.6			
ANNUAL MEAN	24.1		12.6		19.0	
HIGHEST ANNUAL MEAN					40.7	1952
LOWEST ANNUAL MEAN					4.65	1977
HIGHEST DAILY MEAN	308	May 22	136	May 13	419	May 22 1984
LOWEST DAILY MEAN	2.7	Jan 18	2.7	Jan 31	.00	Sep 23 1966
ANNUAL SEVEN-DAY MINIMUM	2.7	Jan 16	2.9	Jan 28	.06	Sep 22 1966
ANNUAL RUNOFF (AC-FT)	17440		9090		13770	
10 PERCENT EXCEEDS	55		34		48	
50 PERCENT EXCEEDS	4.9		4.3		5.0	
90 PERCENT EXCEEDS	3.3		3.3		2.5	

e Estimated

09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UT

LOCATION.--Lat 39°46'28", long 111°11'25", in NW¼NE¼SW¼ 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 sea level, 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 13	2317	*268	*2.50				

Minimum daily, 4.6 ft³/s, Sept. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	e8.7	e8.2	e8.4	e8.8	32	21	65	80	15	8.1	5.6
2	8.4	e8.4	e8.6	e8.4	e8.8	40	21	64	67	15	8.4	5.6
3	8.2	e8.8	e8.4	e8.4	e9.8	48	24	71	60	16	7.4	5.9
4	8.2	e8.2	e8.4	e8.5	e11	53	25	88	56	15	7.1	5.6
5	8.2	e8.6	e8.4	e8.9	e11	55	22	127	50	14	6.8	5.1
6	10	e8.0	e8.0	e8.4	e12	57	20	161	46	13	6.5	5.2
7	12	e8.2	e8.0	e8.8	e13	38	20	188	44	12	6.2	5.6
8	14	e7.8	e8.4	e8.6	e14	30	21	173	42	13	6.5	5.6
9	15	e7.3	e8.4	e8.6	e16	27	19	174	38	12	8.1	5.2
10	13	e7.6	e8.2	e8.6	e18	27	19	189	36	12	10	5.3
11	11	e7.6	e8.0	e8.9	e18	33	18	199	34	11	8.7	4.6
12	16	e8.4	e8.0	e8.4	18	27	19	222	33	11	8.5	5.0
13	14	e8.6	e7.8	e8.4	21	23	23	234	31	10	8.9	5.8
14	12	e8.0	e8.4	e8.4	20	25	30	227	28	10	8.8	5.8
15	12	e7.5	e8.4	e8.4	19	26	37	211	28	11	9.0	5.8
16	12	e7.6	e9.0	e8.4	19	26	46	207	27	10	7.4	5.5
17	12	e7.6	e9.6	e8.4	19	23	59	186	26	9.7	6.8	5.4
18	13	e8.0	e9.4	e8.4	19	22	67	164	26	9.3	6.6	5.4
19	15	e7.6	e9.0	e8.8	23	19	79	148	25	9.4	7.7	5.5
20	12	e7.4	e8.8	e8.8	28	21	98	137	25	8.6	9.8	6.8
21	11	e7.6	e8.6	e8.8	27	28	110	127	26	8.4	11	7.6
22	11	e7.6	e8.4	e8.4	29	28	139	121	26	8.4	10	5.9
23	10	e7.8	e9.0	e8.3	29	25	156	116	23	9.1	8.6	5.5
24	9.9	e7.4	e9.2	e8.2	28	21	131	110	21	9.0	7.5	5.0
25	9.8	e7.4	e9.0	e8.2	32	18	111	105	20	9.2	6.9	4.8
26	9.4	e7.2	e9.0	e8.6	40	22	96	103	19	8.9	6.1	5.0
27	8.6	e7.8	e9.2	e9.0	42	25	83	103	18	8.5	6.3	4.8
28	9.3	e8.2	e9.0	e8.8	41	28	76	94	18	8.2	6.8	5.1
29	9.3	e8.2	e9.0	e8.8	---	17	71	84	17	7.9	6.1	6.6
30	8.5	e7.8	e8.8	e8.4	---	18	64	76	16	7.8	6.1	11
31	e8.4	---	e8.6	e8.0	---	18	---	80	---	8.3	6.2	---
TOTAL	339.5	236.9	267.2	264.4	594.4	900	1725	4354	1006	330.7	238.9	171.6
MEAN	11.0	7.90	8.62	8.53	21.2	29.0	57.5	140	33.5	10.7	7.71	5.72
MAX	16	8.8	9.6	9.0	42	57	156	234	80	16	11	11
MIN	8.2	7.2	7.8	8.0	8.8	17	18	64	16	7.8	6.1	4.6
AC-FT	673	470	530	524	1180	1790	3420	8640	2000	656	474	340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1994, BY WATER YEAR (WY)

MEAN	11.5	11.3	9.75	8.84	9.25	12.7	61.3	263	137	29.7	14.8	11.0
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	3.79	5.00	11.5	23.5	14.4	6.83	4.07	3.49
(WY)	1978	1965	1962	1979	1979	1964	1975	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1939 - 1994	
ANNUAL TOTAL	22723.4		10428.6			
ANNUAL MEAN	62.3		28.6		48.6	
HIGHEST ANNUAL MEAN					113	1983
LOWEST ANNUAL MEAN					10.2	1977
HIGHEST DAILY MEAN	892	May 21	234	May 13	1310	May 22 1984
LOWEST DAILY MEAN	5.8	Feb 4	4.6	Sep 11	2.6	Jan 31 1979
ANNUAL SEVEN-DAY MINIMUM	6.0	Jan 31	5.2	Sep 22	2.8	Jan 29 1979
ANNUAL RUNOFF (AC-FT)	45070		20690		35190	
10 PERCENT EXCEEDS	137		79		124	
50 PERCENT EXCEEDS	11		10		12	
90 PERCENT EXCEEDS	6.6		6.7		7.0	

e Estimated

09310700 MUD CREEK BELOW WINTER QUARTERS CANYON, AT SCOFIELD, UT

LOCATION.--Lat 39°43'18", long 111°09'38", in SW¼NE¼ 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, UT."

GAGE.--Water-stage recorder. Elevation of gage is 7,720 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 389 ft³/s May 21, 1984, gage height, 3.30 ft; minimum, 1.4 ft³/s Sept. 8, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32 ft³/s May 13, gage height, 2.19 ft; minimum daily discharge, 2.4 ft³/s Aug. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	7.2	6.3	e6.2	e5.9	5.9	7.4	13	12	3.3	4.0	5.9
2	11	7.4	6.1	e6.4	e6.2	6.1	8.1	12	11	3.9	3.7	5.9
3	11	7.1	e6.4	e5.6	e6.6	7.1	8.0	13	10	4.0	3.4	7.4
4	11	6.9	6.3	e5.8	6.9	7.1	7.7	13	10	3.5	2.9	6.6
5	11	6.4	e6.0	e5.6	6.8	7.3	6.3	16	10	3.6	2.8	6.6
6	11	e6.2	e6.2	e5.4	e6.5	7.4	6.9	18	9.6	3.0	2.6	6.5
7	12	e6.0	e6.0	e5.2	e6.7	6.8	6.5	19	8.6	3.2	2.4	6.1
8	14	e6.6	e6.1	e5.2	e6.2	6.6	e6.5	18	7.1	3.5	2.9	6.0
9	12	e6.6	6.3	e5.4	5.7	6.6	6.5	18	6.3	3.2	3.2	6.3
10	11	e6.4	6.3	e5.6	6.3	6.8	6.6	19	5.9	3.2	3.4	6.6
11	12	e6.4	e6.2	e5.4	6.2	6.2	7.1	22	6.1	3.2	3.5	6.5
12	13	6.5	e6.1	e5.9	e5.9	6.9	7.8	25	6.0	3.0	3.2	7.5
13	8.9	6.3	e6.4	e6.3	e6.3	7.5	8.6	27	5.9	3.0	3.2	5.9
14	9.2	e6.1	e6.3	6.3	6.6	7.8	9.7	25	5.3	2.9	3.6	8.0
15	9.7	e6.2	6.2	6.4	6.5	7.6	9.4	25	5.1	3.8	3.5	7.9
16	11	e6.4	6.3	5.9	6.5	8.1	10	25	5.0	3.9	3.9	7.8
17	11	e6.3	6.2	6.2	6.8	8.0	11	21	4.7	4.2	3.7	7.7
18	10	e6.3	e6.0	5.8	6.6	6.9	12	18	5.4	3.7	4.1	7.2
19	8.2	e6.2	e6.0	e5.8	6.8	7.4	13	18	5.5	3.9	5.2	8.4
20	8.3	e6.3	e5.9	e6.2	7.0	7.3	14	16	5.4	3.8	5.1	10
21	7.0	e6.3	e5.8	e6.2	6.5	6.6	14	16	5.3	3.9	4.9	8.3
22	6.9	6.4	e5.7	e6.1	6.3	6.6	16	15	5.0	3.8	4.5	6.7
23	8.4	e6.3	e6.1	e6.0	6.3	e7.0	16	15	4.7	4.6	4.5	6.3
24	8.1	e6.2	e6.0	6.3	6.3	6.6	15	14	4.6	4.5	5.0	7.0
25	7.5	e6.0	e6.0	6.0	7.4	6.6	14	12	4.8	4.5	4.5	7.0
26	7.6	e5.7	e6.0	6.4	6.5	6.9	13	14	4.8	4.4	5.1	6.9
27	7.4	e5.8	e6.1	e6.3	5.8	e6.9	13	15	4.4	4.1	5.9	6.3
28	7.5	e5.9	e6.2	e6.0	5.8	e6.7	13	15	4.1	4.5	5.5	6.9
29	7.4	e5.9	e6.0	e6.0	---	6.7	13	13	3.9	4.6	6.8	8.7
30	6.9	6.0	e5.8	e6.0	---	7.2	12	13	3.6	4.5	6.6	10
31	7.6	---	e6.0	5.8	---	7.5	---	13	---	4.5	6.4	---
TOTAL	298.6	190.3	189.3	183.7	179.9	216.7	312.1	536	190.1	117.7	130.0	214.9
MEAN	9.63	6.34	6.11	5.93	6.42	6.99	10.4	17.3	6.34	3.80	4.19	7.16
MAX	14	7.4	6.4	6.4	7.4	8.1	16	27	12	4.6	6.8	10
MIN	6.9	5.7	5.7	5.2	5.7	5.9	6.3	12	3.6	2.9	2.4	5.9
AC-FT	592	377	375	364	357	430	619	1060	377	233	258	426

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979-86, 1991-94, BY WATER YEAR (WY)

MEAN	7.08	6.30	5.54	5.36	5.57	7.75	17.7	60.8	52.0	13.6	8.09	8.11
MAX	12.2	10.3	9.48	8.74	9.19	18.3	40.7	141	134	30.8	16.0	14.0
(WY)	1985	1986	1985	1986	1984	1986	1985	1984	1983	1983	1984	1986
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

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1979-86, 1991-94	
ANNUAL TOTAL	5697.6		2759.3			
ANNUAL MEAN	15.6		7.56		16.5	
HIGHEST ANNUAL MEAN					30.7	1984
LOWEST ANNUAL MEAN					5.52	1981
HIGHEST DAILY MEAN	140	May 18	27	May 13	300	May 24 1984
LOWEST DAILY MEAN	4.4	Jan 25	2.4	Aug 7	1.6	Sep 8 1979
ANNUAL SEVEN-DAY MINIMUM	4.6	Jan 25	2.9	Aug 3	1.6	Jan 11 1980
ANNUAL RUNOFF (AC-FT)	11300		5470		11970	
10 PERCENT EXCEEDS	30		13		37	
50 PERCENT EXCEEDS	8.3		6.4		7.1	
90 PERCENT EXCEEDS	4.9		3.9		3.4	

e Estimated

09311000 SCOFIELD RESERVOIR NEAR SCOFIELD, UT

LOCATION.--Lat 39°47'15", long 111°07'30", in NW¼SE¼ 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 sea level (levels by Bureau of Reclamation). Prior to Nov. 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 Nov. 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 June 12, 13, 1983; elevation, 7,621.85 ft; minimum observed, 280 acre-ft Oct. 3, 1945; elevation, 7,586.25 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 41,730 acre-ft May 19, 20, 22, 23, elevation, 7,608.4 ft; minimum observed, 10,670 acre-ft Sept. 29, 30, elevation, 7,593.7 ft.

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

7,593	9,480	7,600	22,750
7,594	11,180	7,605	33,603
7,595	12,960	7,608	40,740
7,596	14,810	7,609	43,210

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31780	e31330	31780	e33150	e33840	e35230	36640	e38310	40740	32470	20910	13140
2	31560	e31330	e31780	33150	33840	e35230	e36880	38310	e40740	32240	20710	13140
3	31560	e31330	e32010	e33150	e33840	e35230	36880	38310	40500	31780	20510	12960
4	31560	e31330	e32010	e33150	e34070	e35230	e37120	38310	40250	31560	20110	12960
5	31560	e31330	e32010	e33380	e34070	e35230	37120	38550	e40250	31110	19700	12780
6	31330	e31330	e32240	e33380	34070	e35230	e37120	38800	40010	30660	19500	12780
7	31330	e31330	32240	e33380	e34070	e35230	e37360	38800	39770	30220	19100	12600
8	31330	31330	e32240	33380	e34070	e35230	e37360	39040	39520	29780	18900	12420
9	31330	e31330	e32240	e33380	e34300	35230	37360	39040	39280	29330	18700	12240
10	31330	e31330	e32240	e33380	e34300	e35460	e37360	39040	39040	28890	18500	12240
11	31330	e31330	e32470	e33380	34300	35460	e37360	39520	38800	28680	18500	12070
12	31330	e31330	e32470	e33600	e34300	e35460	e37360	40010	38550	28240	18300	11890
13	31330	e31560	e32470	e33600	e34530	e35460	e37360	40500	38310	27810	18110	11890
14	e31330	e31560	32470	e33600	34530	e35700	37360	40740	37840	27380	18110	11710
15	e31330	e31560	e32470	e33600	e34530	e35700	e37360	40980	37600	26730	17910	11710
16	e31330	31560	e32470	33600	e34770	e35700	e37600	41230	37360	26310	17520	11530
17	31330	e31560	e32690	e33600	e34770	35700	e37600	41230	36880	25880	17120	11530
18	e31330	e31560	e32690	e33600	34770	e35700	37600	41480	36640	25460	16730	11360
19	e31330	e31560	e32690	e33840	e34770	e35930	e37600	41730	36410	25040	16350	11360
20	e31330	e31560	32690	e33840	e35000	36070	37840	41730	36170	24620	16160	11180
21	e31330	31560	e32690	e33840	e35000	e36170	37840	e41730	35930	24200	15960	11180
22	e31330	e31560	e32690	33840	35000	e36170	37840	41730	e35460	24000	15770	11010
23	e31330	e31780	e32920	e33840	e35000	36170	37840	41730	e35230	23580	15390	11010
24	e31330	31780	e32920	e33840	e35000	e36170	38070	41480	e34990	23370	15000	11010
25	e31330	e31780	e32920	e33840	e35230	e36410	38070	e41480	e34530	22960	14630	11010
26	e31330	e31780	32920	e33840	e35230	e36410	38310	e41480	e34300	22550	14440	10840
27	31330	e31780	e32920	e33840	35230	36410	e38310	41480	e33830	22340	14260	10840
28	e31330	e31780	e32920	e33840	e35230	e36410	e38310	41230	e33600	22140	14070	10970
29	e31330	e31780	e32920	e33840	---	e36410	38310	41230	e33140	21730	13880	10670
30	e31330	e31780	e33150	e33840	---	e36640	e38310	40980	e32690	21320	13700	10670
31	e31330	---	e33150	e33840	---	e36640	---	e40980	---	21120	13330	---
MAX	31800	31800	33100	33800	35200	36600	38300	41700	40700	32500	20900	13100
MIN	31300	31300	31800	33100	33800	35200	36600	38300	32700	21100	13300	10700
(#)	---	---	---	---	---	---	---	---	---	7599.2	7595.2	7593.7
(*)	-450	+450	+1370	+690	+1390	+1410	+1670	+2670	-8290	-11570	-7790	-2660

CAL YR 1993 . . . . . (*) +30360
WTR YR 1994 . . . . . (*) -21110

(e) Estimated.
(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UT

LOCATION.--Lat 39°52'33", long 111°02'12", in NE¼SE¼SW¼ 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.

DRAINAGE AREA.--75.6 mi².

PERIOD OF RECORD.--May 1967 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,230 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 962 ft³/s May 27, 1983, gage height, 5.82 ft; no flow many days August and September 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage (ft)
May 13	1249	*44	*1.31				

Minimum daily discharge, .33 ft³/s Aug. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	e5.4	e5.8	e3.9	e3.1	e5.1	21	26	19	4.3	2.0	.91
2	4.2	e5.6	e5.4	e3.5	e3.4	e6.0	20	26	16	4.2	2.7	.97
3	4.2	e5.4	e5.6	e3.4	e3.7	e8.0	22	28	16	4.8	2.1	1.3
4	4.1	e5.2	e5.4	e3.7	e4.0	e8.0	22	29	15	4.2	1.4	1.0
5	4.3	e5.0	e5.2	e3.5	e3.9	e8.0	19	30	15	3.8	e1.0	.79
6	4.5	e4.8	e5.4	e3.3	e3.8	e8.0	18	33	14	3.4	e.85	.65
7	5.4	e4.7	e5.2	e3.1	e4.0	e7.8	17	36	14	3.6	e.70	.88
8	5.6	e5.3	e5.4	e3.1	e3.8	e7.6	17	39	13	3.7	e.60	.95
9	5.6	e5.3	e5.6	e3.2	e3.6	e7.6	17	40	13	3.4	1.2	.75
10	5.5	e5.2	e5.6	e3.3	e4.0	e8.0	18	39	13	3.1	3.5	.69
11	5.0	e5.2	e5.4	e3.1	e3.9	e7.6	17	39	12	2.8	2.9	.38
12	6.8	e5.2	e5.2	e3.2	e3.8	e9.9	16	37	11	2.6	2.0	1.0
13	5.5	e4.9	e5.6	e3.3	e4.1	e12	18	40	11	2.5	1.5	1.5
14	5.4	e4.8	e5.2	e3.3	e4.5	e14	21	37	9.7	2.3	1.9	1.8
15	5.4	e5.2	e5.2	e3.4	e4.3	e13	22	35	9.5	2.4	2.1	1.8
16	5.4	e5.4	e5.4	e3.1	e4.3	e14	25	32	9.0	2.3	1.4	1.5
17	5.8	e5.2	e5.0	e3.3	e4.5	e14	29	31	8.5	2.2	1.0	1.7
18	6.1	e5.2	e4.5	e3.2	e4.3	e13	32	29	8.1	2.0	.84	1.6
19	6.3	e5.2	e4.5	e3.2	e4.5	e14	33	26	8.5	1.9	1.2	1.6
20	5.2	e5.2	e4.2	e3.3	e4.9	e14	35	26	9.7	1.6	2.4	1.7
21	e5.2	e5.2	e4.0	e3.3	e4.7	e13	35	25	8.4	1.6	2.2	2.2
22	e5.2	e5.4	e4.0	e3.2	e4.6	e13	38	23	8.3	2.0	1.8	2.0
23	e6.8	e5.2	e4.2	e3.2	e4.6	14	40	22	7.2	3.1	1.2	1.6
24	e6.4	e5.2	e4.1	e3.3	e4.7	13	38	20	6.4	2.5	.86	1.6
25	e5.6	e5.0	e4.1	e3.2	e5.6	13	36	19	6.0	2.2	.63	1.5
26	e5.6	e4.8	e4.1	e3.4	e5.1	14	33	19	5.4	1.9	.43	1.5
27	e5.6	e5.0	e4.1	e3.3	e5.1	14	32	20	5.0	1.8	.33	1.4
28	e5.8	e5.4	e4.2	e3.2	e5.1	14	31	19	4.8	1.6	.66	1.5
29	e5.5	e5.4	e3.8	e3.2	---	17	29	19	4.7	1.4	.87	1.8
30	e5.2	e5.6	e3.6	e3.2	---	17	27	17	4.5	1.3	1.1	3.2
31	e5.6	---	e3.7	e3.1	---	19	---	18	---	1.9	1.2	---
TOTAL	166.8	155.6	148.7	102.0	119.9	360.6	778	879	305.7	82.4	44.57	41.77
MEAN	5.38	5.19	4.80	3.29	4.28	11.6	25.9	28.4	10.2	2.66	1.44	1.39
MAX	6.8	5.6	5.8	3.9	5.6	19	40	40	19	4.8	3.5	3.2
MIN	4.0	4.7	3.6	3.1	3.1	5.1	16	17	4.5	1.3	.33	.38
AC-FT	331	309	295	202	238	715	1540	1740	606	163	88	83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1994, BY WATER YEAR (WY)

MEAN	5.73	5.31	4.44	4.14	5.05	12.9	63.1	154	54.5	15.2	7.07	4.87
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	.64	1.90	2.73	5.68	4.37	1.95	.48	.016	.12
(WY)	1978	1991	1977	1977	1969	1991	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1968 - 1994	
ANNUAL TOTAL	14017.7		3185.04			
ANNUAL MEAN	38.4		8.73		28.2	
HIGHEST ANNUAL MEAN					61.9	1983
LOWEST ANNUAL MEAN					2.21	1977
HIGHEST DAILY MEAN	381	May 18	40	Apr 23	927	May 27 1983
LOWEST DAILY MEAN	2.8	Jan 25	.33	Aug 27	.00	Aug 6 1977
ANNUAL SEVEN-DAY MINIMUM	2.9	Jan 20	.70	Aug 24	.00	Aug 6 1977
ANNUAL RUNOFF (AC-FT)	27800		6320		20400	
10 PERCENT EXCEEDS	136		24		72	
50 PERCENT EXCEEDS	5.6		5.1		6.5	
90 PERCENT EXCEEDS	3.2		1.5		2.4	

e Estimated

09313000 PRICE RIVER NEAR HEINER, UT

LOCATION.--Lat 39°43'08", long 110°51'55", in SW¼SE¼SW¼, 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. Altitude of gage is 6,000 ft above sea level, 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 Sept. 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, 272 ft³/s Aug. 9, gage height, 5.02 ft; minimum daily discharge 9.4 ft³/s Nov. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	29	e18	e17	e14	e17	32	137	184	189	159	59
2	53	26	e17	e18	e14	e20	36	134	178	190	147	54
3	50	27	e16	e16	e14	e27	38	133	174	191	137	57
4	50	28	e17	e18	e15	e30	40	136	177	191	134	56
5	54	27	e17	e17	e15	39	35	144	176	191	135	54
6	57	24	e17	e16	e15	68	51	158	172	191	143	54
7	60	28	e17	e15	e16	58	56	164	169	200	146	54
8	46	27	e18	e15	e15	40	56	171	168	198	145	52
9	40	24	e18	e16	e14	30	63	167	169	203	164	45
10	39	16	e18	e17	e15	26	69	176	165	204	141	45
11	42	14	e17	e15	e15	26	57	179	164	194	129	47
12	36	20	e16	e15	e14	25	52	182	165	187	125	48
13	36	17	e16	e16	e14	29	50	192	160	176	125	50
14	36	13	e16	e17	e15	32	50	195	166	180	124	47
15	37	9.4	e16	e15	e16	35	66	191	177	197	115	44
16	38	11	e16	e15	e16	32	68	193	177	199	112	45
17	38	15	e15	e15	e17	30	77	192	171	200	111	44
18	34	19	e15	e16	e16	26	77	190	166	196	113	48
19	e33	13	e15	e15	e15	25	97	184	166	188	124	45
20	e34	16	e15	e16	e15	27	98	191	165	187	124	47
21	30	17	e14	e16	e16	21	106	199	166	176	126	48
22	31	19	e13	e17	e14	23	121	195	169	180	123	45
23	30	18	e16	e16	e14	27	137	192	168	180	119	29
24	30	e17	e15	e15	e15	28	150	193	169	172	124	25
25	28	e15	e14	e17	e18	32	151	194	170	154	124	27
26	29	e14	e15	e17	e17	30	156	193	175	146	123	24
27	28	e15	e16	e15	e16	29	160	193	182	146	124	25
28	29	e16	e17	e14	e16	23	164	190	181	150	107	24
29	29	e17	e15	e14	---	28	158	188	189	151	98	26
30	28	e18	e15	e14	---	26	136	173	187	152	93	37
31	28	---	e16	e13	---	26	---	175	---	153	94	---
TOTAL	1187	569.4	496	488	426	935	2607	5494	5165	5612	3908	1305
MEAN	38.3	19.0	16.0	15.7	15.2	30.2	86.9	177	172	181	126	43.5
MAX	60	29	18	18	18	68	164	199	189	204	164	59
MIN	28	9.4	13	13	14	17	32	133	160	146	93	24
AC-FT	2350	1130	984	968	845	1850	5170	10900	10240	11130	7750	2590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935-69, 1980-81, 1991-94, BY WATER YEAR (WY)

MEAN	42.1	17.7	12.5	10.2	13.7	38.9	159	341	249	191	131	86.0
MAX	143	90.7	30.1	18.4	29.0	181	523	1538	913	297	207	178
(WY)	1938	1938	1966	1953	1943	1969	1952	1952	1952	1952	1950	1968
MIN	3.84	3.23	4.00	4.00	5.46	7.96	29.0	80.2	52.3	28.1	12.6	6.39
(WY)	1935	1935	1935	1935	1961	1991	1961	1961	1961	1961	1992	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1935-69, 1980-81, 1991-94	
ANNUAL TOTAL	42260.2		28192.4			
ANNUAL MEAN	116		77.2		108	
HIGHEST ANNUAL MEAN					310	1952
LOWEST ANNUAL MEAN					25.3	1961
HIGHEST DAILY MEAN	736	May 18	204	Jul 10	2040	Apr 28 1952
LOWEST DAILY MEAN	5.6	Mar 3	9.4	Nov 15	.90	Aug 18 1961
ANNUAL SEVEN-DAY MINIMUM	7.2	Feb 28	14	Nov 14	2.4	Nov 7 1934
ANNUAL RUNOFF (AC-FT)	83820		55920		78410	
10 PERCENT EXCEEDS	228		185		250	
50 PERCENT EXCEEDS	81		40		49	
90 PERCENT EXCEEDS	8.4		15		8.0	

e Estimated

09315000 GREEN RIVER AT GREEN RIVER, UT

LOCATION (REVISED).--Lat 38°59'10", long 110°09'02", in NW¼NW¼SW¼ 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. Elevation of gage is 4,040.18 ft above sea level. Prior to Nov. 6, 1914, staff, wire-weight, or chain gages at several sites within 7 mi of present site at various datums. Nov. 6, 1914 to June 20, 1924, water-stage recorder at site 7 mi downstream at different datum. June 21 to Sept. 18, 1924, chain gage, and Sept. 19, 1924 to May 7, 1947, water-stage recorder at site 100 ft downstream at present datum. May 8, 1947 to Sept. 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 Nov. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft³/s June 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 21	1730	*11,800	*9.09				

Minimum discharge, 1,470 ft³/s Jul. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2020	2950	3560	e3400	3170	3820	2990	7310	10000	1970	1550	1630
2	1920	3030	3660	e3300	2870	4540	2890	6600	10300	1830	1560	1660
3	2000	3170	3530	e3400	2410	5430	2760	6010	10400	1750	1530	1660
4	1980	3180	e3500	e3470	2020	5370	2640	5530	10600	1690	1560	1910
5	2020	3320	e3480	e3560	1880	4830	2630	5400	10800	1650	1590	1640
6	2130	3700	e3500	e3500	2220	4720	2640	5090	10800	1650	1600	1600
7	2140	3680	e3520	e3420	2450	4450	2670	4930	10000	1650	1600	e1660
8	2210	3710	e3550	e3430	2980	4350	2720	5120	9570	1650	1580	e1700
9	2220	3740	3620	e3490	3350	4820	2790	5120	9330	1610	1600	1660
10	2340	3640	3780	e3510	3370	5060	3050	5260	8910	1550	1760	1650
11	2720	3410	3700	3570	3350	4740	3380	6470	8370	1520	1810	1620
12	2840	3290	3750	3610	3430	4510	3390	7740	7480	1520	1760	1610
13	2820	3550	3860	3460	3390	4100	3280	8050	6810	1560	1820	1630
14	2780	3540	3870	2940	3240	3860	3120	8480	6030	1550	1820	1680
15	2800	3710	3990	3110	3080	3550	2950	9160	5520	1530	1720	1670
16	2830	3870	3830	3590	2970	3380	2830	10300	4960	1550	1680	1780
17	3010	4070	3780	3390	2910	3310	2780	11200	4470	1550	1620	1810
18	3040	3880	3740	3390	3150	3300	2760	11000	3900	1540	1580	1810
19	3080	3600	3600	3410	3300	3260	2670	10900	3630	1520	1550	1810
20	3260	3930	3580	3150	3320	3260	2680	11200	e3340	1570	1550	1910
21	3360	3870	3550	3070	3490	3290	2990	11600	e3090	1570	1580	1930
22	3440	3790	3390	3060	3610	3290	3250	11700	e2660	1570	1590	1780
23	3410	3660	2780	3190	3690	3470	3840	11500	2590	1570	1620	1740
24	3260	3530	2250	3090	3780	3470	4740	11300	2430	1550	1600	1760
25	3220	3410	2390	3000	3400	3350	6020	10800	2310	1530	1610	1770
26	2990	3230	2700	3110	3460	3480	6880	10300	2240	1520	1600	1770
27	2860	3680	2590	3030	3610	3340	7730	10200	2320	1510	1590	1770
28	2880	3510	2770	3000	3680	3200	8390	9940	2370	1500	1590	1780
29	2750	3300	2820	3360	---	3280	8660	9500	2470	1510	1640	1810
30	2720	3290	3100	3520	---	3200	8190	9570	2190	1530	1660	2890
31	2700	---	3450	3360	---	3050	---	9940	---	1520	1610	---
TOTAL	83750	106240	105190	102890	87580	121080	118310	267220	179890	49290	50530	53100
MEAN	2702	3541	3393	3319	3128	3906	3944	8620	5996	1590	1630	1770
MAX	3440	4070	3990	3610	3780	5430	8660	11700	10800	1970	1820	2890
MIN	1920	2950	2250	2940	1880	3050	2630	4930	2190	1500	1530	1600
AC-FT	166100	210700	208600	204100	173700	240200	234700	530000	356800	97770	100200	105300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 1994, BY WATER YEAR (WY)

MEAN	3023	2878	2332	2301	2828	4629	7413	15520	18850	7921	3723	2828
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

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1906 - 1994	
ANNUAL TOTAL	1918090		1325070			
ANNUAL MEAN	5255		3630		6192	
HIGHEST ANNUAL MEAN					12280	1907
LOWEST ANNUAL MEAN					1805	1934
HIGHEST DAILY MEAN	25100	May 31	11700	May 22	66700	Jun 27 1917
LOWEST DAILY MEAN	1500	Jan 1	1500	Jul 28	380	Dec 5 1934
ANNUAL SEVEN-DAY MINIMUM	1600	Jan 1	1520	Jul 25	419	Jul 30 1934
ANNUAL RUNOFF (AC-FT)	3805000		2628000		4486000	
10 PERCENT EXCEEDS	13600		7380		15100	
50 PERCENT EXCEEDS	3260		3200		3420	
90 PERCENT EXCEEDS	2000		1600		1520	

e Estimated

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Daily samples collected at bridge on U.S. Highways 50 and 6, in town of Green River, 0.7 mi from gaging station.

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 TEMPERATURES: 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 June 30, 1978.
WATER TEMPERATURES: Maximum, 30.0°C Aug. 13, 1958; minimum, 0.0°C on many days during winter period each year.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 66,000 mg/L July 11, 1936; minimum daily, 19 mg/L Sept. 30, 1974.
SEDIMENT LOADS: Maximum daily, 2,230,000 tons July 11, 1936; minimum daily, 54 tons Sept. 27, 1956.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum observed, 1,100 microsiemens Sept. 21; minimum observed, 440 microsiemens May 14, 15.
WATER TEMPERATURES: Maximum observed, 29.0°C July 30; minimum, 0.0°C many days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT , 1993											
05...	1130	1950	880	8.5	20.0	16.0	--	8.1	661	--	--
MAR , 1994											
29...	1115	3170	870	8.4	15.0	9.0	360	9.7	662	<1	<1
APR											
25...	1110	5620	750	8.3	12.0	14.0	50	9.1	650	--	--
MAY											
20...	1030	11800	420	8.1	18.0	15.0	180	9.0	657	<1	<1
JUN											
27...	1030	2500	580	8.3	31.0	24.0	15	7.4	660	--	--
JUL											
25...	1120	1650	790	8.4	29.5	25.0	4.0	6.7	658	--	--
AUG											
23...	1000	1580	820	8.4	24.0	22.5	--	7.2	656	--	--

DATE	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT , 1993											
05...	280	64	30	84	39	2	2.8	--	--	--	240
MAR , 1994											
29...	290	66	30	78	37	2	3.0	1	210	175	260
APR											
25...	260	59	27	63	34	2	2.7	0	199	163	200
MAY											
20...	150	36	14	31	31	1	1.7	0	117	96	96
JUN											
27...	180	44	17	49	37	2	2.4	0	159	130	140
JUL											
25...	240	54	25	68	38	2	3.1	8	180	160	220
AUG											
23...	260	61	27	76	38	2	3.3	--	--	--	230

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)
OCT , 1993											
05...	28	0.30	4.7	568	561	0.77	2990	--	--	<0.010	--
MAR , 1994											
29...	24	0.30	6.8	594	576	0.81	5080	0.540	--	<0.010	0.540
APR											
25...	19	0.30	6.2	496	478	0.67	7530	0.430	--	<0.010	0.430
MAY											
20...	9.4	0.20	8.1	265	255	0.36	8440	0.100	0.100	0.030	0.130
JUN											
27...	18	0.30	6.4	355	356	0.48	2400	--	--	<0.010	--
JUL											
25...	28	0.30	3.2	518	499	0.70	2310	--	--	<0.010	--
AUG											
23...	28	0.20	4.1	560	528	0.76	2390	--	--	<0.010	--

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT , 1993										
05...	<0.050	0.020	0.03	--	--	--	--	--	<0.010	--
MAR , 1994										
29...	0.540	0.020	0.03	0.28	0.30	0.84	0.140	<0.010	<0.010	--
APR										
25...	0.430	0.030	0.04	0.87	0.90	1.3	0.280	<0.010	<0.010	--
MAY										
20...	0.130	0.030	0.04	0.57	0.60	0.73	0.170	0.030	0.010	0.03
JUN										
27...	<0.050	0.020	0.03	0.28	0.30	0.30	0.060	0.010	<0.010	--
JUL										
25...	<0.050	<0.010	--	0.30	0.30	0.30	0.020	<0.010	<0.010	--
AUG										
23...	<0.050	0.020	0.03	--	--	--	--	--	<0.010	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)
MAR , 1994							
29...	1115	<10	68	<3	<3	33	1
APR							
25...	1110	20	63	<3	14	24	1
JUN							
27...	1030	<10	54	<3	7	19	1
JUL							
25...	1120	<10	70	<3	5	28	4

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
MAR , 1994						
29...	<10	1	5	<1.0	680	<6
APR						
25...	<10	1	1	<1.0	620	<6
JUN						
27...	<10	<1	<1	<1.0	440	<6
JUL						
25...	<10	1	<1	<1.0	610	<6

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT , 1993		
05...	1130	160
AUG , 1994		
23...	1000	150

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
MAY , 1994			
20...	1030	0.06	1.9

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	940	930	900	---	870	910	490	500	600	820	840
2	870	930	---	870	870	870	900	500	485	590	830	840
3	870	900	920	860	880	860	890	520	490	---	810	---
4	880	910	890	850	910	830	880	560	490	620	810	---
5	880	---	890	860	930	800	900	580	495	630	810	830
6	870	910	---	860	920	790	930	580	470	---	820	850
7	---	880	870	870	970	810	950	580	465	660	830	---
8	840	890	860	860	950	800	960	600	485	680	820	860
9	---	890	870	860	910	810	950	600	495	710	830	850
10	890	900	880	840	910	790	950	580	500	770	830	860
11	890	900	880	860	880	780	950	570	510	780	940	870
12	890	---	880	870	850	780	920	540	530	790	890	860
13	920	910	880	890	850	770	900	480	530	770	840	850
14	1020	890	870	890	850	---	900	440	540	770	830	860
15	---	910	870	880	840	870	930	440	550	770	840	860
16	960	900	870	880	860	860	940	480	560	770	930	870
17	940	890	870	880	880	880	930	470	560	760	880	860
18	1000	900	860	870	880	870	910	---	590	790	870	850
19	1000	930	890	860	870	---	910	450	600	830	870	850
20	1010	---	---	870	870	900	900	450	580	810	880	870
21	940	890	880	870	860	900	910	470	540	---	910	1100
22	920	880	880	870	860	900	910	460	570	800	870	880
23	---	880	910	860	850	890	890	455	---	810	860	840
24	880	---	920	870	870	900	860	450	560	810	870	830
25	860	---	950	860	840	900	770	450	590	810	860	860
26	890	---	950	870	870	900	660	455	590	810	850	850
27	880	---	980	860	870	900	610	470	600	810	850	---
28	860	900	970	---	860	910	550	480	610	810	850	860
29	890	890	950	---	---	900	500	485	610	810	850	850
30	900	910	940	---	---	---	475	500	610	810	870	---
31	910	---	930	---	---	---	---	485	---	810	850	---
MEAN	910	901	901	868	880	853	851	502	542	757	854	864

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	8.0	1.5	1.0	---	9.0	11.0	15.0	20.0	26.0	23.0	24.0
2	15.0	7.0	---	1.0	1.0	9.0	15.0	15.0	20.0	27.0	27.0	24.0
3	16.0	7.0	2.5	1.0	1.5	10.0	13.0	13.5	20.0	---	27.0	---
4	19.0	7.5	1.5	1.0	.0	8.0	11.0	18.0	20.0	26.0	26.0	---
5	19.0	---	1.5	2.0	.0	8.0	12.5	18.0	22.5	26.0	26.0	23.0
6	16.5	6.0	---	1.0	1.0	10.0	13.0	19.0	21.0	---	26.0	24.0
7	---	6.0	2.0	.0	1.0	9.0	13.0	18.0	20.0	25.0	27.0	---
8	15.0	6.0	3.0	1.0	2.0	10.0	12.0	19.0	21.0	26.0	27.0	25.0
9	---	5.5	2.0	1.5	3.0	10.5	12.0	17.0	22.0	27.0	25.0	24.0
10	14.0	4.0	.0	1.5	2.0	10.0	12.0	19.0	22.0	27.0	26.0	22.0
11	15.0	4.0	2.0	1.0	2.0	9.0	12.0	20.5	23.0	28.0	26.0	23.0
12	15.0	---	1.5	1.0	2.0	10.0	14.0	20.5	24.0	26.5	26.0	22.5
13	14.0	6.0	.0	1.0	2.0	8.0	15.0	20.0	23.0	27.0	26.0	21.0
14	15.0	7.0	2.0	1.0	3.0	---	16.0	20.0	23.0	26.0	25.0	21.0
15	---	6.0	.5	1.0	3.0	10.0	16.0	20.0	23.0	27.0	26.0	20.0
16	14.0	7.5	1.0	2.0	2.5	12.0	18.0	20.0	23.0	26.0	25.0	21.5
17	14.0	7.0	.0	1.0	1.5	13.0	18.0	18.0	24.0	27.0	26.0	20.0
18	12.0	5.0	.0	2.0	4.0	10.0	18.0	---	22.0	26.0	25.0	20.5
19	13.0	5.0	.0	2.0	3.0	---	19.0	17.0	24.0	26.0	25.0	21.0
20	12.0	---	---	2.0	3.0	12.0	21.0	17.0	25.0	26.0	25.0	20.0
21	12.0	5.0	1.0	1.0	3.0	12.0	21.0	18.0	25.0	---	25.0	20.5
22	12.0	3.0	.0	1.0	3.0	12.0	20.0	18.0	26.5	27.0	27.0	19.0
23	---	4.0	1.0	1.0	3.0	10.5	20.0	20.0	---	27.0	26.0	19.5
24	11.0	---	1.0	2.0	2.0	10.0	16.0	20.0	27.5	28.0	26.0	20.0
25	13.0	---	1.0	1.0	3.0	12.0	16.0	19.0	27.5	28.0	27.0	20.0
26	11.5	---	1.0	1.0	6.0	11.0	15.0	20.0	28.0	27.0	27.0	20.0
27	10.0	---	.0	1.0	6.0	10.0	12.5	20.0	26.0	27.0	25.0	---
28	9.0	.0	1.0	---	8.0	11.0	12.5	20.0	27.0	27.0	26.0	18.0
29	8.0	1.5	.0	---	---	11.5	14.0	22.0	28.0	28.0	25.0	18.5
30	7.0	.5	.0	---	---	---	14.0	23.0	28.0	29.0	25.0	---
31	6.0	---	1.0	---	---	---	---	20.0	---	28.0	25.0	---
MEAN	13.0	1.0	1.0	1.0	2.5	10.5	15.0	19.0	23.5	27.0	26.0	21.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR , 1994						
29...	1115	3170	9.0	99	357	3060
APR						
25...	1110	5620	14.0	96	522	7920
MAY						
20...	1030	11800	15.0	79	1540	49100
JUN						
27...	1030	2500	24.0	81	46	311

09317800 ELECTRIC LAKE NEAR SCOFIELD, UT

LOCATION.--Lat 39°36'03", long 111°12'41", in NE¼NE¼SE¼ 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 Utah Power & Light Co.

GAGE.--Elevation of gage is 8,300 ft above sea level, Utah Power and Light Co. datum.

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 19,780 acre-ft June 9-11, elevation, 8,545.72 ft; minimum, 13,720 acre-ft Sept. 29, 30, elevation, 8,524.07 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18310	18130	17680	17190	16670	16320	16080	16900	19670	19430	17810	15550
2	18300	18130	17670	17170	16650	16310	16080	16920	19690	19400	17730	15470
3	18280	18130	17660	17150	16630	16290	16080	16930	19720	19380	17660	15400
4	18270	18130	17640	17130	16610	16280	16090	16960	19740	19350	17570	15330
5	18250	18130	17620	17110	16600	16270	16080	17020	19760	19320	17490	15260
6	18250	18090	17600	17100	16580	16260	16080	17080	19770	19290	17410	15190
7	18240	18070	17580	17090	16580	16250	16090	17100	19780	19260	17330	15130
8	18240	18050	17570	17070	16580	16240	16080	17140	19780	19220	17250	15050
9	18240	18030	17550	17060	16570	16220	16080	17240	19780	19190	17180	14980
10	18220	18010	17530	17040	16560	16210	16080	17340	19780	19150	17110	14910
11	18220	17990	17520	17020	16560	16210	16070	17450	19780	19110	17030	14840
12	18220	17980	17510	17010	16550	16200	16070	17550	19780	19070	16960	14780
13	18210	17970	17490	16990	16530	16190	16070	17660	19770	19040	16890	14710
14	18200	17950	17480	16970	16510	16180	16080	17760	19760	19000	16810	14640
15	18200	17930	17460	16950	16500	16180	16100	17870	19750	18960	16740	14560
16	18190	17910	17450	16940	16480	16170	16110	17980	19740	18920	16640	14490
17	18180	17890	17440	16920	16470	16160	16160	18080	19730	18890	16580	14420
18	18180	17880	17420	16900	16470	16160	16200	18190	19710	18860	16510	14330
19	18170	17860	17410	16890	16460	16160	16250	18300	19700	18800	16440	14280
20	18160	17830	17390	16870	16450	16150	16320	18410	19690	18710	16410	14230
21	18150	17820	17380	16850	16450	16140	16390	18520	19670	18630	16340	14150
22	18140	17820	17360	16830	16430	16150	16490	18630	19660	18560	16260	14100
23	18140	17820	17340	16810	16420	16140	16610	18740	19630	18490	16190	14040
24	18140	17810	17320	16800	16400	16130	16680	18850	19620	18410	16120	13970
25	18140	17790	17310	16780	16380	16130	16730	18960	19600	18330	16050	13900
26	18140	17770	17290	16760	16360	16120	16770	19070	19570	18270	16000	13830
27	18140	17750	17270	16750	16350	16110	16810	19190	19550	18180	15930	13770
28	18140	17730	17260	16740	16340	16100	16840	19300	19520	18100	15880	13730
29	18140	17720	17240	16720	---	16100	16870	19410	19490	18030	15790	13720
30	18130	17700	17220	16710	---	16090	16880	19530	19460	17980	15710	13720
31	18130	---	17200	16690	---	16080	---	19570	---	17910	15640	---
MAX	18310	18130	17680	17190	16670	16320	16880	19570	19780	19430	17810	15550
MIN	18130	17700	17200	16690	16340	16080	16070	16900	19460	17910	15640	13720
(#)	8540.39	8538.95	8537.23	8535.41	8534.16	8533.23	8536.10	8545.04	8544.72	8539.66	8531.61	8524.07
(*)	-190	-430	-500	-510	-350	-260	+800	+2690	-110	-1550	-2270	-1920

CAL YR 1993 . . . . . (*) +6740
WTR YR 1994 . . . . . (*) -4600

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT

LOCATION.--Lat 39°23'07", long 111°05'15", in SE¼NE¼SW¼, 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.

DRAINAGE AREA.--178 mi², approximately.

PERIOD OF RECORD.--October 1979 to current year. Water years 1981-85 not published, records available in office of Utah Power & Light Co., located in Salt Lake City, Ut.

GAGE.--Water-stage recorder. Elevation of gage is 6,450 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Small transmountain diversions to tributaries of San Pitch River (Sevier Lake Basin). Flow regulated by reservoirs above station.

COOPERATION.--Records collected by Utah Power & Light Co.

AVERAGE DISCHARGE.--11 years, 72.6 ft³/s, 52,600 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 218 ft³/s Aug. 1, gage height, 3.25 ft; minimum daily discharge, 8.9 ft³/s Feb. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	42	28	e20	8.9	19	20	45	84	82	78	58
2	63	40	27	e22	e10	20	20	43	82	80	78	57
3	63	22	21	e26	12	21	22	52	75	80	70	59
4	63	20	24	e25	14	22	22	57	83	79	70	54
5	65	22	24	e23	14	22	22	75	76	89	66	53
6	81	19	25	e23	13	22	22	67	80	98	65	55
7	73	21	25	e19	19	22	22	72	79	98	65	51
8	73	23	29	e18	23	21	21	59	74	102	71	52
9	69	21	29	e19	22	19	23	61	77	99	73	49
10	67	22	28	e20	23	19	22	100	74	99	72	46
11	71	23	27	e17	22	19	21	109	80	97	70	46
12	69	25	27	e21	19	19	23	123	78	99	64	49
13	34	24	20	e22	e22	20	24	140	74	96	63	51
14	34	23	24	e21	21	21	26	127	75	98	64	39
15	35	20	21	e18	e21	21	28	112	80	97	65	38
16	39	18	21	e15	15	21	29	117	80	97	64	38
17	41	29	18	e13	12	20	34	99	81	97	64	38
18	40	33	16	e14	14	19	35	121	80	97	65	38
19	39	26	17	e11	13	19	35	142	78	95	66	38
20	27	24	12	e13	e13	19	41	136	79	88	64	43
21	23	28	14	e12	20	18	51	134	81	82	65	38
22	28	32	15	e13	18	19	60	138	92	87	64	38
23	23	33	16	e13	16	17	64	141	86	85	63	36
24	23	24	16	e14	18	15	52	144	84	83	61	37
25	23	18	18	e13	19	16	40	106	84	82	64	37
26	31	16	18	e13	19	16	37	96	83	80	66	37
27	44	23	19	e12	19	16	40	97	83	75	69	39
28	44	27	19	e12	19	16	38	98	85	75	69	50
29	43	29	16	e11	---	19	36	97	88	73	68	54
30	42	28	16	e12	---	18	41	95	89	71	70	59
31	42	---	21	e11	---	19	---	95	---	72	60	---
TOTAL	1474	755	651	516	478.9	594	971	3098	2424	2732	2076	1377
MEAN	47.5	25.2	21.0	16.6	17.1	19.2	32.4	99.9	80.8	88.1	67.0	45.9
MAX	81	42	29	26	23	22	64	144	92	102	78	59
MIN	23	16	12	11	8.9	15	20	43	74	71	60	36
AC-FT	2920	1500	1290	1020	950	1180	1930	6140	4810	5420	4120	2730

e Estimated

09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UT
(Transmountain diversion)

LOCATION.--Lat 39°19'47", long 111°25'51", in SE¼SE¼SE¼ 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 sea level. (Levels by U.S. Geological Survey, Topographic Division.)

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, 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e.00	e1.3	e15	2.8	.22	.01
2	---	---	---	---	---	---	e.00	e1.4	e13	2.6	.21	.01
3	---	---	---	---	---	---	e.00	e1.6	e12	2.4	.18	.01
4	---	---	---	---	---	---	e.00	e1.8	e12	2.2	.18	.02
5	---	---	---	---	---	---	e.00	e2.1	e10	2.0	.15	.01
6	---	---	---	---	---	---	e.00	e2.7	e8.6	1.8	.13	.02
7	---	---	---	---	---	---	e.00	e3.0	e8.6	1.7	.14	.01
8	---	---	---	---	---	---	e.00	e2.7	e9.0	1.5	.13	.01
9	---	---	---	---	---	---	e.00	e3.0	11	1.3	.12	.00
10	---	---	---	---	---	---	e.00	e3.6	15	1.1	.13	.00
11	---	---	---	---	---	---	e.00	e3.9	14	1.0	.08	.00
12	---	---	---	---	---	---	e.06	e4.1	13	.89	.09	.00
13	---	---	---	---	---	---	e.25	e4.5	12	.84	.08	.01
14	---	---	---	---	---	---	e.27	e5.0	11	.75	.05	.01
15	---	---	---	---	---	---	e.28	e5.6	10	.64	.04	.01
16	---	---	---	---	---	---	e.50	e6.0	9.0	.57	.03	.00
17	---	---	---	---	---	---	e.60	e5.6	8.2	.56	.02	.00
18	---	---	---	---	---	---	e.90	e5.6	7.4	.55	.02	.00
19	---	---	---	---	---	---	e1.2	e5.6	6.9	.52	.02	.01
20	---	---	---	---	---	---	e1.3	e5.6	6.7	.50	.03	.01
21	---	---	---	---	---	---	e1.5	e5.6	6.0	.47	.04	.01
22	---	---	---	---	---	---	e1.7	e6.2	5.6	.47	.02	.00
23	---	---	---	---	---	---	e1.8	e7.6	5.1	.46	.02	.00
24	---	---	---	---	---	---	e1.7	e9.0	4.8	.39	.02	.00
25	---	---	---	---	---	---	e1.6	e10	4.4	.45	.02	.00
26	---	---	---	---	---	---	e1.5	e12	4.0	.36	.01	.00
27	---	---	---	---	---	---	e1.4	e11	3.6	.34	.02	.00
28	---	---	---	---	---	---	e1.3	e13	3.6	.31	.02	.00
29	---	---	---	---	---	---	e1.2	e17	3.5	.28	.02	.05
30	---	---	---	---	---	---	e1.2	e16	3.1	.27	.01	.08
31	---	---	---	---	---	---	---	e15	---	.25	.01	---
TOTAL	---	---	---	---	---	---	20.26	197.1	256.1	30.27	2.26	0.29
MEAN	---	---	---	---	---	---	.68	6.36	8.54	.98	.073	.010
MAX	---	---	---	---	---	---	1.8	17	15	2.8	.22	.08
MIN	---	---	---	---	---	---	.00	1.3	3.1	.25	.01	.00
AC-FT	---	---	---	---	---	---	40	391	508	60	4.5	.6

e Estimated

09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UT
(Transmountain diversion)

LOCATION.--Lat 39°25'34", long 111°21'51", in NW¼SW¼SE¼ 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 sea level. Prior to Aug. 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e.52	e1.2	e19	3.6	1.5	.87
2	---	---	---	---	---	---	e.50	e1.3	e18	3.5	1.5	.87
3	---	---	---	---	---	---	e.52	e1.4	e17	3.3	1.4	.91
4	---	---	---	---	---	---	e.50	e1.6	e17	3.1	1.4	.83
5	---	---	---	---	---	---	e.50	e1.8	e16	3.0	1.3	.80
6	---	---	---	---	---	---	e.50	e2.3	e14	2.9	1.3	.81
7	---	---	---	---	---	---	e.50	e2.7	e14	2.8	1.3	.79
8	---	---	---	---	---	---	e.49	e2.5	e15	2.7	1.4	.79
9	---	---	---	---	---	---	e.52	e2.7	e16	2.6	1.4	.77
10	---	---	---	---	---	---	e.50	e2.9	17	2.5	1.4	.74
11	---	---	---	---	---	---	e.50	e3.5	15	2.4	1.3	.75
12	---	---	---	---	---	---	e.50	e3.9	14	2.4	1.4	.86
13	---	---	---	---	---	---	e.54	e4.3	12	2.3	1.5	.82
14	---	---	---	---	---	---	e.56	e4.5	10	2.3	1.3	.79
15	---	---	---	---	---	---	e.58	e5.0	9.1	2.2	1.2	.75
16	---	---	---	---	---	---	e.70	e5.4	8.3	2.1	1.1	.74
17	---	---	---	---	---	---	e.80	e5.2	7.5	2.1	1.1	.73
18	---	---	---	---	---	---	e.86	e5.2	7.2	2.1	1.1	.71
19	---	---	---	---	---	---	e1.0	e5.2	6.9	2.0	1.1	.71
20	---	---	---	---	---	---	e1.1	e5.2	6.4	1.9	1.4	.98
21	---	---	---	---	---	---	e1.2	e5.2	6.1	1.9	1.2	.74
22	---	---	---	---	---	---	e1.3	e5.6	5.7	2.0	1.1	.69
23	---	---	---	---	---	---	e1.7	e6.2	5.3	1.9	1.0	.69
24	---	---	---	---	---	---	e1.6	e7.0	5.0	1.8	.98	.66
25	---	---	---	---	---	---	e1.5	e10	4.7	1.8	.95	.64
26	---	---	---	---	---	---	e1.4	e15	4.5	1.7	.93	.64
27	---	---	---	---	---	---	e1.3	e14	4.3	1.7	.97	.62
28	---	---	---	---	---	---	e1.2	e17	4.0	1.7	.95	.62
29	---	---	---	---	---	---	e1.1	e21	3.9	1.6	.92	1.6
30	---	---	---	---	---	---	e1.1	e20	3.7	1.6	.90	1.3
31	---	---	---	---	---	---	---	e19	---	1.6	.89	---
TOTAL	---	---	---	---	---	---	25.59	207.8	306.6	71.1	37.19	24.22
MEAN	---	---	---	---	---	---	.85	6.70	10.2	2.29	1.20	.81
MAX	---	---	---	---	---	---	1.7	21	19	3.6	1.5	1.6
MIN	---	---	---	---	---	---	.49	1.2	3.7	1.6	.89	.62
AC-FT	---	---	---	---	---	---	51	412	608	141	74	48

e Estimated

09323900 JOES VALLEY RESERVOIR NEAR ORANGEVILLE, UT

LOCATION.--Lat 39°17'20", long 111°16'10", in NW¼NE¼ 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 Nov. 3, 1965. Usable capacity, 54,610 acre-ft between elevations 6,910.0 and 6,989.7 ft above mean sea level. 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 June 20, 21, 1983; minimum observed since reservoir was first filled, 7,710 acre-ft Oct. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 52,110 acre-ft June 7, 8, elevation, 6,980.4 ft; minimum observed, 30,290 acre-ft, Sept. 30, elevation, 6,955.4 ft.

MONTHEND ELEVATION, IN FEET, AND CONTENTS AT 2400, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	--	*44,940	--
Oct. 31	6,970.0	42,010	-2,930
Nov. 30	--	*42,730	+720
Dec. 31	--	*42,730	0
CAL YR 1993	--	--	+16,500
Jan. 31	--	*42,640	-90
Feb. 28	--	*42,550	-90
Mar. 31	6,971.0	42,910	+360
Apr. 30	6,971.6	43,460	+550
May 31	--	*50,970	+7,510
June 30	--	*47,540	-3,430
July 31	--	*40,600	-6,940
Aug. 31	--	*33,950	-6,650
Sept. 30	6,955.4	30,290	-3,660
WTR YR 1994	--	--	-14,650

* No gage-height reading, contents interpolated.

09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT

LOCATION.--Lat 39°06'15", long 111°12'57", in NE¼SE¼SW¼ 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, Apr. 1909 to Oct. 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 sea level, from topographic map. May 6, 1911 to Sept. 30, 1923, nonrecording gages in vicinity of present site at different datums. Dec. 19, 1947 to Sept. 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. 19-21, 1976.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug. 18	1445	*633	*5.57	No other peak greater than base discharge.			

Minimum daily discharge, 6.0 ft³/s Jan. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	18	e16	e9.5	e7.0	e11	14	45	192	55	16	9.3
2	19	12	e14	e10	e7.5	e11	13	44	183	52	16	9.0
3	19	16	e13	e9.0	e8.0	e12	15	49	179	45	15	9.7
4	19	16	e14	e9.5	e8.5	e12	14	58	174	40	13	8.8
5	19	10	e14	e9.0	e8.5	e13	12	83	165	34	12	8.2
6	25	e11	e15	e8.5	e8.5	e13	12	98	154	30	11	8.3
7	24	e11	e15	e8.0	e9.0	e13	13	116	146	29	11	8.7
8	23	e13	e16	e8.0	e9.0	e12	12	104	134	28	11	8.7
9	22	e15	e16	e8.5	e8.5	e11	13	107	124	26	13	8.7
10	23	e17	e17	e8.5	e8.5	9.4	12	114	121	25	12	8.4
11	24	e16	e17	e8.0	e8.0	10	11	136	115	24	12	8.4
12	34	15	e16	e8.0	e7.5	10	12	188	102	23	12	9.0
13	24	17	e15	e9.5	e7.5	11	16	239	98	23	14	11
14	22	e15	e15	e10	e8.0	12	20	251	96	22	13	9.5
15	21	e14	e14	e9.0	e8.0	13	20	265	92	22	12	9.1
16	24	e14	e14	e8.5	e8.5	14	26	252	89	21	10	7.9
17	27	e15	e13	e9.0	e8.5	14	34	202	84	21	9.6	7.6
18	25	e14	e12	e11	e8.0	14	40	168	80	21	43	7.8
19	22	e14	e11	e10	e8.0	13	43	173	85	20	11	8.2
20	19	e15	e10	e9.0	e8.0	12	50	155	81	19	10	9.6
21	18	e15	e9.0	e8.5	e7.5	11	64	153	81	19	11	9.3
22	19	e16	e8.5	e9.0	e7.0	13	71	162	81	20	11	8.5
23	18	e14	e9.0	e8.5	e7.0	12	76	181	82	21	9.9	8.4
24	17	e13	e8.5	e8.5	e7.5	13	70	193	83	19	9.5	8.1
25	18	e13	e8.5	e9.0	e8.5	12	56	189	85	19	9.2	7.9
26	16	e12	e9.0	e9.0	e9.5	11	50	207	86	17	8.9	7.8
27	14	e13	e9.0	e8.5	e11	11	48	213	83	22	9.0	7.6
28	18	e14	e10	e8.5	e11	10	45	213	79	34	10	7.6
29	17	e15	e9.0	e8.0	---	11	43	210	62	23	9.8	13
30	11	e15	e9.0	e7.5	---	10	42	200	59	20	10	25
31	15	---	e9.5	e6.0	---	12	---	209	---	17	9.8	---
TOTAL	636	428	386.0	271.5	232.0	366.4	967	4977	3275	811	384.7	279.1
MEAN	20.5	14.3	12.5	8.76	8.29	11.8	32.2	161	109	26.2	12.4	9.30
MAX	34	18	17	11	11	14	76	265	192	55	43	25
MIN	11	10	8.5	6.0	7.0	9.4	11	44	59	17	8.9	7.6
AC-FT	1260	849	766	539	460	727	1920	9870	6500	1610	763	554

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912-23, 1948-94, BY WATER YEAR (WY)

MEAN	18.0	13.6	10.6	8.78	9.74	13.6	45.0	219	292	99.4	42.0	24.0
MAX	70.2	32.2	21.5	13.7	20.0	26.4	128	486	732	404	128	51.0
(WY)	1917	1985	1985	1921	1922	1986	1985	1952	1984	1983	1983	1952
MIN	7.59	6.53	4.27	3.00	4.61	5.02	13.7	44.8	40.3	17.2	12.0	9.30
(WY)	1960	1956	1963	1963	1978	1977	1967	1977	1977	1977	1977	1994

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1912-23, 1948-94	
ANNUAL TOTAL	28797.6		13013.7			
ANNUAL MEAN	78.9		35.7		66.5	
HIGHEST ANNUAL MEAN					140	1984
LOWEST ANNUAL MEAN					17.6	1977
HIGHEST DAILY MEAN	623	May 28	265	May 15	1240	Jun 7 1984
LOWEST DAILY MEAN	5.3	Feb 15	6.0	Jan 31	1.0	Mar 22 1912
ANNUAL SEVEN-DAY MINIMUM	5.6	Feb 12	7.5	Jan 28	2.6	Jan 4 1960
ANNUAL RUNOFF (AC-FT)	57120		25810		48140	
10 PERCENT EXCEEDS	276		103		195	
50 PERCENT EXCEEDS	23		14		18	
90 PERCENT EXCEEDS	6.2		8.5		8.0	

e Estimated

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT

LOCATION.--Lat 38°51'30", long 110°22'10", in $SE^1/_4SE^1/_4NW^1/_4$ 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 mi^2.

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 sea level, from topographic map. May 5, 1909 to Sept. 10, 1918, staff gage, and Sept. 10, 1919 to July 10, 1920, tape-weight gage. Nov. 29, 1945 to July 7, 1976, water-stage recorder at various sites and datums about 1 mi upstream.

REMARKS.--Records good 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 Nov. 3, 1965, in Joes Valley Reservoir (see station 09323900).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft^3/s Sept. 2, 1909, gage height, 12.7 ft, site and datum then in use, from rating curve extended above 3,100 ft^3/s; no flow at times in some years.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
a Sept. 30	2400	*1290	*8.33				

(a) Stage rising, peak occurred Oct. 1, 1994.

No flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	45	e37	e32	e33	51	18	20	13	1.0	.00	42
2	30	44	e39	e30	e35	51	18	21	11	.97	.00	14
3	29	42	e38	e32	e36	55	17	19	14	.96	.00	7.5
4	30	40	e36	e33	e39	54	16	18	14	.91	.00	4.4
5	30	40	e35	e35	e43	55	15	17	12	.87	.00	1.9
6	33	40	e35	e34	e45	54	14	15	9.2	.79	.00	e.40
7	35	39	e36	e31	e44	47	14	15	7.7	.74	.00	e.00
8	73	38	e38	e32	e43	43	12	14	6.4	.70	.00	.00
9	81	39	e39	e34	e42	42	17	11	5.0	e.40	.00	.00
10	124	41	e37	e33	e41	39	45	14	4.2	e.20	e.50	.00
11	72	45	e36	e31	e40	37	19	17	3.5	e.10	29	.00
12	57	80	e33	e31	e38	35	19	14	3.2	e.10	19	.00
13	109	49	e32	e31	39	33	21	13	3.6	e.00	26	.00
14	88	73	e32	e33	e38	32	17	13	2.1	.00	8.1	.00
15	65	76	e33	e32	e37	31	14	15	2.9	.00	2.8	.00
16	56	57	e35	e34	36	30	13	15	2.8	.00	e.50	.00
17	81	51	e33	e33	40	30	11	13	1.8	.00	e.00	.00
18	195	48	e33	e31	46	28	11	12	1.4	.00	.00	.00
19	120	45	e32	e31	45	28	10	13	1.3	.00	.00	.00
20	100	43	e30	e31	42	27	9.9	15	1.2	.00	e57	.00
21	77	41	e29	e32	39	26	9.6	14	2.0	.00	48	.00
22	64	39	e28	e34	40	26	9.2	13	20	.00	30	.00
23	57	42	e30	e33	35	25	8.5	11	14	.00	14	.00
24	55	44	e28	e37	35	24	9.0	11	12	.00	6.1	.00
25	53	44	e28	e40	40	24	10	11	8.2	.00	2.5	.00
26	51	37	e31	e43	44	24	11	11	5.6	.00	e.70	.00
27	50	30	e33	e44	48	23	14	13	4.4	.00	e.00	.00
28	49	e34	e35	e40	54	23	23	14	2.9	.00	.00	.00
29	47	e35	e36	e36	---	21	22	18	1.6	.00	e10	e10
30	50	e38	e37	e39	---	20	20	15	1.2	.00	114	579
31	48	---	e33	e37	---	20	---	13	---	.00	111	---
TOTAL	2040	1359	1047	1059	1137	1058	467.2	448	192.2	7.74	479.20	659.20
MEAN	65.8	45.3	33.8	34.2	40.6	34.1	15.6	14.5	6.41	.25	15.5	22.0
MAX	195	80	39	44	54	55	45	21	20	1.0	114	579
MIN	29	30	28	30	33	20	8.5	11	1.2	.00	.00	.00
AC-FT	4050	2700	2080	2100	2260	2100	927	889	381	15	950	1310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910-18, 1946-94, BY WATER YEAR (WY)

MEAN	92.5	67.3	47.1	44.1	72.5	107	110	315	569	150	89.7	73.0
MAX	848	358	125	224	200	729	748	1626	2772	965	344	309
(WY)	1917	1958	1910	1911	1910	1910	1910	1914	1983	1983	1916	1961
MIN	.85	5.68	11.8	13.1	20.9	23.3	6.84	3.72	1.09	.25	.38	.11
(WY)	1957	1978	1978	1991	1977	1976	1977	1977	1977	1994	1960	1956

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1910-18, 1946-94	
ANNUAL TOTAL	27064.6		9953.54			
ANNUAL MEAN	74.1		27.3		145	
HIGHEST ANNUAL MEAN					483	1984
LOWEST ANNUAL MEAN					17.6	1990
HIGHEST DAILY MEAN	540	May 29	579	Sep 30	7300	Oct 8 1916
LOWEST DAILY MEAN	9.8	Aug 18	.00	Jul 13	.00	Aug 24 1910
ANNUAL SEVEN-DAY MINIMUM	13	Aug 16	.00	Jul 13	.00	Aug 15 1915
ANNUAL RUNOFF (AC-FT)	53680		19740		104800	
10 PERCENT EXCEEDS	186		50		312	
50 PERCENT EXCEEDS	41		26		50	
90 PERCENT EXCEEDS	20		.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, October 1979 to September 1980, March 1982 to current year.
WATER TEMPERATURES: July to September 1949, October 1950 to September 1962, October 1964 to September 1978.
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 (water years 1949, 1951-70, 1974-76), 7,230 microsiemens July 15, 1954, and June 29, 1977; minimum daily (water years 1949, 1951-76), 689 microsiemens June 29, 1957.
WATER TEMPERATURES: Maximum (water years 1949, 1951-61, 1966-76), 35.0°C July 11, 1954; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum observed, 6,300 microsiemens July 11; minimum observed, 1,200 microsiemens Aug. 31.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	BAROMETRIC PRESSURE (MM OF HG)	HARDNESS TOTAL (MG/L AS CACO3)
OCT , 1993									
04...	1000	30	2990	8.3	17.0	13.0	8.6	659	1100
NOV									
16...	1030	58	3400	8.3	2.5	1.0	11.8	661	1200
MAR , 1994									
21...	1030	26	3750	8.2	13.0	8.0	9.8	658	1300
APR									
19...	1130	9.9	4250	8.2	24.0	17.0	8.4	655	1600
MAY									
25...	1000	12	3970	8.1	26.5	18.0	8.2	651	1500
JUN									
23...	1000	13	3820	8.2	27.0	22.0	7.5	655	1400
JUL									
19...	1000	0.0	--	--	29.5	--	--	--	--
AUG									
31...	1125	229	1200	8.1	28.0	19.5	6.6	652	590

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	CARBONATE WATER DIS IT FIELD MG/L AS CO3	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DISSOLVED (MG/L AS SO4)
OCT , 1993										
04...	210	140	350	41	5	9.2	0	300	246	1400
NOV										
16...	230	150	320	37	4	7.3	0	359	294	1600
MAR , 1994										
21...	260	170	460	42	5	9.9	0	386	316	1900
APR										
19...	310	210	500	40	5	12	0	366	300	2300
MAY										
25...	280	190	440	39	5	14	0	344	282	2100
JUN										
23...	250	180	480	43	6	13	0	266	223	2000
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
31...	200	22	37	12	0.7	7.4	0	158	129	550

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)
OCT , 1993										
04...	56	0.30	3.9	2560	2320	3.48	205	--	--	<0.010
NOV										
16...	67	0.30	8.1	2870	2560	3.90	450	0.480	0.480	0.040
MAR , 1994										
21...	79	0.30	5.8	3290	3080	4.47	234	--	--	0.020
APR										
19...	100	0.30	6.6	3870	3620	5.26	103	--	--	<0.010
MAY										
25...	96	0.30	8.3	3590	3300	4.88	112	--	--	<0.010
JUN										
23...	81	0.30	3.5	2430	3360	3.30	84.0	--	--	<0.010
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
31...	14	0.20	5.8	978	917	1.33	605	0.570	0.570	0.010

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)
OCT , 1993									
04...	--	<0.050	0.030	0.04	0.27	0.30	0.30	0.040	<0.010
NOV									
16...	0.520	0.520	0.020	0.03	0.88	0.90	1.4	0.390	<0.010
MAR , 1994									
21...	--	<0.050	0.040	0.05	0.16	0.20	0.20	<0.010	<0.010
APR									
19...	--	<0.050	0.060	0.08	0.24	0.30	0.30	<0.010	<0.010
MAY									
25...	--	<0.050	0.020	0.03	0.38	0.40	0.40	0.020	<0.010
JUN									
23...	--	<0.050	0.030	0.04	0.57	0.60	0.60	0.020	<0.010
JUL									
19...	--	--	--	--	--	--	--	--	--
AUG									
31...	0.580	0.580	0.020	0.03	11	11	12	2.00	<0.010

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	SELENIUM, TOTAL (UG/L AS SE)
AUG , 1994									
31...	1125	9	4	86	110	120000	160	430	6

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT , 1993		
04...	1000	310
NOV		
16...	1030	<10
MAR , 1994		
21...	1030	330
APR		
19...	1130	370
MAY		
25...	1000	410
JUN		
23...	1000	450
AUG		
31...	1125	60

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
MAR , 1994			
21...	1030	5.0	0.3
MAY			
25...	1000	5.7	0.3
JUN			
23...	1000	7.8	0.6
AUG			
31...	1125	8.4	>5.0

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	3400	2800	3920	3490	4120	4480	---	2780
2	---	3330	---	---	---	---	4000	3320	3970	4630	---	---
3	---	---	3270	---	3420	---	4010	3830	---	4900	---	---
4	---	---	---	---	---	---	4040	4110	4060	---	---	2380
5	2830	---	---	3260	---	---	4100	4010	3780	---	---	2410
6	---	---	---	3250	3660	---	4140	4000	3840	5330	---	---
7	2550	---	3140	---	---	---	4190	4180	3830	5400	---	---
8	---	---	---	3270	---	---	4220	4050	3860	5510	---	---
9	---	---	---	3270	---	---	4200	4350	3750	5830	---	---
10	---	---	---	---	---	3500	1270	4560	3790	---	---	---
11	---	---	3160	---	---	---	4120	4580	3540	6300	3170	---
12	---	---	3130	---	---	---	4130	4560	3500	5800	3410	---
13	---	3300	---	3460	---	---	4110	---	3920	---	---	---
14	---	3510	---	3480	2780	3620	4250	4650	4310	---	---	---
15	---	---	---	3160	2730	3660	4330	4330	4190	---	3080	---
16	---	---	---	---	2950	3700	4340	4360	4280	---	---	---
17	---	---	---	---	---	---	4180	4070	4520	---	---	---
18	---	3860	3560	---	---	---	---	4160	4870	---	---	---
19	---	---	3270	---	---	---	4170	4460	4940	---	---	---
20	---	3620	---	---	2590	3720	---	4380	---	---	---	---
21	3100	---	3500	---	2700	3890	4270	4310	5030	---	1800	---
22	---	---	---	3180	2810	3830	4170	4350	3370	---	---	---
23	---	3540	---	---	---	3920	4160	4250	---	---	2900	---
24	---	3420	---	---	---	---	4310	4020	3980	---	5160	---
25	---	---	---	---	---	3860	4460	3910	---	---	4720	---
26	---	---	---	---	---	---	4340	3900	3430	---	4870	---
27	---	---	---	---	---	---	3220	3930	3080	---	---	---
28	3240	---	3730	2860	2670	---	3110	3780	3100	---	---	---
29	---	3760	3580	---	---	---	4140	4190	3530	---	---	---
30	---	---	3440	---	---	---	3710	---	---	---	---	2240
31	3310	---	---	---	---	---	---	---	---	---	2600	---

09329050 SEVEN MILE CREEK NEAR FISH LAKE, UT

LOCATION.--Lat 38°37'40", long 111°38'50", in SE¼SW¼SW¼ sec. 13, T. 25 S., R. 2 E., Sevier County, Hydrologic Unit 14070003, on left bank 0.4 mi upstream from bridge on State Highway 25, about 0.7 mi upstream from Johnson Valley Reservoir, and 3.5 mi northeast of north end of Fish Lake.

DRAINAGE AREA.--24.0 mi².

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 9,200 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 369 ft³/s June 1, 1984, gage height, 4.03 ft; minimum, 1.9 ft³/s Nov. 16, 17, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 80 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 13	2000	*203	*2.99	No other peak greater than base discharge.			

Minimum daily, 4.3 ft³/s Sept. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	8.9	e7.2	e6.6	e5.7	e7.0	e13	20	17	5.6	5.7	4.7
2	8.0	11	e6.8	e7.0	e5.8	e7.2	e14	18	15	5.6	5.6	4.6
3	7.9	11	e6.4	e6.6	e6.0	e7.6	e14	18	14	9.0	5.0	4.8
4	7.9	7.8	e6.6	e7.0	e6.4	e7.8	e13	20	12	6.0	5.0	4.7
5	8.1	11	e6.8	e7.0	e6.5	e8.2	e12	33	11	5.4	6.7	4.5
6	11	e10	e7.0	e6.7	e6.6	e8.4	e13	53	10	5.3	4.9	4.6
7	9.3	e9.2	e7.2	e6.3	e7.0	e8.0	e14	45	9.7	5.3	4.9	4.9
8	9.7	e9.4	e7.2	e6.0	e6.8	e7.6	e14	32	9.2	5.4	5.1	4.8
9	9.5	e9.5	e7.4	e6.3	e6.5	e7.4	e15	30	8.6	5.0	6.1	4.4
10	9.7	e9.8	e7.8	e6.6	e6.7	e7.2	e17	33	8.3	5.2	6.5	4.4
11	10	e9.6	e7.8	e6.4	e6.8	e7.4	e20	50	8.0	5.3	6.2	4.5
12	12	e9.2	e7.2	e6.4	e6.2	e7.6	e21	60	7.7	5.2	5.5	4.5
13	9.5	e8.8	e6.4	e6.5	e6.2	e7.9	e22	112	7.3	4.9	5.4	4.4
14	9.2	e8.5	e6.2	e7.0	e6.5	e8.2	e22	82	7.0	5.0	5.7	4.5
15	9.2	e8.0	e6.2	e6.5	e6.8	e8.3	e23	70	6.7	5.1	5.5	4.7
16	10	e8.4	e6.0	e6.5	e7.0	e8.8	e23	62	6.4	4.9	4.9	4.7
17	12	e8.6	e5.9	e6.5	e7.4	e9.0	e24	39	6.5	4.9	4.8	4.8
18	11	e8.6	e5.8	e7.0	e7.2	e8.8	24	30	6.8	5.1	5.3	5.0
19	10	e7.8	e5.6	e6.4	e6.8	e8.8	24	31	6.7	5.6	5.9	5.0
20	9.4	e8.0	e5.5	e6.7	e6.6	e8.9	24	24	7.0	5.1	5.6	5.0
21	9.0	e8.0	e5.4	e7.0	e6.5	e8.6	25	24	7.3	4.8	5.0	4.8
22	8.9	e8.4	e5.0	e7.0	e6.4	e8.2	37	27	6.8	6.1	4.7	4.6
23	8.8	e7.6	e5.5	e6.7	e6.0	e8.0	43	24	6.3	6.0	4.7	4.6
24	8.7	e6.8	e5.4	e6.5	e6.4	e8.5	39	21	6.0	5.7	4.6	4.6
25	8.6	e6.4	e5.3	e7.0	e7.8	e9.0	24	23	6.1	5.4	4.6	4.6
26	8.5	e6.0	e5.6	e6.8	e8.0	e9.0	23	23	5.8	5.2	4.4	4.4
27	9.7	e6.2	e6.0	e6.6	e7.6	e9.5	21	21	5.8	5.2	4.7	4.3
28	8.5	e6.5	e6.6	e6.4	e7.4	e10	21	20	5.7	5.3	5.2	4.4
29	7.8	e6.8	e6.4	e6.4	---	e11	21	19	5.7	5.1	4.9	5.2
30	11	e7.0	e6.2	e6.0	---	e10	21	17	5.6	5.2	4.7	8.4
31	10	---	e6.4	e5.4	---	e11	---	20	---	5.7	4.8	---
TOTAL	290.9	252.8	196.8	203.8	187.6	262.9	641	1101	246.0	168.6	162.6	143.4
MEAN	9.38	8.43	6.35	6.57	6.70	8.48	21.4	35.5	8.20	5.44	5.25	4.78
MAX	12	11	7.8	7.0	8.0	11	43	112	17	9.0	6.7	8.4
MIN	7.8	6.0	5.0	5.4	5.7	7.0	12	17	5.6	4.8	4.4	4.3
AC-FT	577	501	390	404	372	521	1270	2180	488	334	323	284

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1994, BY WATER YEAR (WY)

MEAN	9.40	8.36	7.41	6.75	6.45	6.91	14.4	47.3	36.3	13.3	10.8	9.64
MAX	15.7	12.5	13.1	11.3	9.79	10.3	32.0	118	140	38.7	28.6	19.1
(WY)	1985	1985	1985	1985	1985	1986	1981	1984	1983	1984	1984	1984
MIN	4.24	4.16	3.91	3.37	3.85	4.72	5.02	10.6	5.31	4.30	3.87	3.70
(WY)	1978	1978	1978	1992	1987	1978	1967	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1965 - 1994	
ANNUAL TOTAL	5359.1		3857.4			
ANNUAL MEAN	14.7		10.6		14.8	
HIGHEST ANNUAL MEAN					32.6	1984
LOWEST ANNUAL MEAN					7.33	1990
HIGHEST DAILY MEAN	159	May 26	112	May 13	227	Jun 1 1984
LOWEST DAILY MEAN	5.0	Dec 22	4.3	Sep 27	2.5	Jan 21 1987
ANNUAL SEVEN-DAY MINIMUM	5.4	Dec 19	4.5	Sep 9	3.1	Jan 13 1992
ANNUAL RUNOFF (AC-FT)	10630		7650		10720	
10 PERCENT EXCEEDS	22		21		29	
50 PERCENT EXCEEDS	8.5		7.0		8.4	
90 PERCENT EXCEEDS	6.2		4.9		5.1	

e Estimated

09330000 FREMONT RIVER NEAR BICKNELL, UT

LOCATION.--Lat 38°18'25", long 111°31'03", in SW¼NE¼NW¼ sec. 7, T. 29 S., R. 4 E., Wayne County, Hydrologic Unit 14070003, on left bank 150 ft upstream of county road bridge, 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 sea level, from topographic map. May 1909 to December 1912, staff gage near present site at different datum. October 1937 to June 28, 1949, staff gages on two canals and river station about 0.25 mi downstream at different datums. June 28, 1949 to Apr. 29, 1958, water-stage recorders replaced staff gages on river and canal site using same datum. Apr. 29 to Sept. 30, 1958, staff gage on river at site 600 ft farther downstream from water-stage recorder at datum 1.67 ft lower. October 1, 1976 to April 2, 1990, water-stage recorders at site about 0.30 mi upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 10,600 acres above station. Flow regulated by Fish Lake and Johnson, Forsythe, and Mill Meadow Reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft³/s Apr. 5, 1942, gage height, 5.8 ft, site and datum in use (from floodmarks), from rating curve extended above 700 ft³/s; minimum observed, 18 ft³/s June 2, 4, 13-15, 17, 18, 1912.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 124 ft³/s Aug. 19, gage height, 4.91 ft; minimum daily discharge, 46 ft³/s June 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	82	85	103	e96	97	75	77	61	48	79	74
2	67	77	86	103	e95	99	74	78	59	49	73	71
3	67	79	e86	108	94	99	76	77	60	49	68	72
4	71	77	85	107	96	99	75	74	59	49	66	71
5	74	75	85	110	96	98	76	72	59	49	65	70
6	82	74	86	110	96	97	81	75	55	50	64	74
7	86	77	86	e103	98	96	89	74	54	49	68	79
8	83	78	89	101	99	94	89	73	53	52	71	76
9	86	78	92	102	97	92	92	73	53	53	72	75
10	81	81	91	102	99	92	94	73	52	54	77	71
11	81	84	91	101	99	95	91	72	54	54	75	72
12	83	90	e89	102	e95	96	89	78	53	53	73	74
13	81	90	e88	102	91	92	88	79	51	54	72	75
14	80	85	87	102	93	92	86	77	49	54	72	74
15	80	85	86	100	93	91	84	75	48	54	76	73
16	83	84	88	99	95	90	85	78	48	54	72	74
17	97	85	91	99	97	89	80	80	48	54	68	76
18	89	88	89	102	96	89	79	76	50	56	72	76
19	90	83	91	101	95	91	83	69	51	57	105	90
20	88	83	e92	100	94	89	82	70	54	57	78	92
21	90	85	e91	100	94	83	81	70	55	65	68	86
22	95	93	e92	100	92	83	80	69	56	70	67	82
23	97	91	e92	100	e95	78	83	69	51	77	64	77
24	96	e80	e92	102	98	82	81	70	50	82	65	75
25	91	e81	92	102	102	78	78	67	50	84	66	76
26	70	e81	94	101	103	77	81	67	48	81	65	76
27	70	e80	97	101	101	75	84	67	46	81	67	79
28	73	80	99	102	98	74	82	68	48	82	87	79
29	77	83	98	99	---	74	83	66	49	74	95	80
30	77	84	98	96	---	73	77	62	48	69	79	99
31	78	---	100	e96	---	77	---	63	---	73	76	---
TOTAL	2531	2473	2808	3156	2697	2731	2478	2238	1572	1887	2265	2318
MEAN	81.6	82.4	90.6	102	96.3	88.1	82.6	72.2	52.4	60.9	73.1	77.3
MAX	97	93	100	110	103	99	94	80	61	84	105	99
MIN	67	74	85	96	91	73	74	62	46	48	64	70
AC-FT	5020	4910	5570	6260	5350	5420	4920	4440	3120	3740	4490	4600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1994, BY WATER YEAR (WY)

MEAN	86.4	90.4	87.1	89.6	97.7	107	130	91.7	76.9	72.1	78.5	76.8
MAX	145	140	133	131	135	166	412	163	174	135	139	119
(WY)	1985	1985	1985	1985	1984	1985	1987	1985	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

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1977 - 1994	
ANNUAL TOTAL	30357		29154			
ANNUAL MEAN	83.2		79.9		90.3	
HIGHEST ANNUAL MEAN					138	1985
LOWEST ANNUAL MEAN					60.2	1980
HIGHEST DAILY MEAN	168	Mar 18	110	Jan 5	813	Apr 17 1987
LOWEST DAILY MEAN	55	Jun 13	46	Jun 27	34	Jul 31 1986
ANNUAL SEVEN-DAY MINIMUM	57	Jun 10	48	Jun 26	38	Jul 29 1986
ANNUAL RUNOFF (AC-FT)	60210		57830		65390	
10 PERCENT EXCEEDS	102		99		125	
50 PERCENT EXCEEDS	81		81		82	
90 PERCENT EXCEEDS	62		54		57	

e Estimated

09330230 FREMONT RIVER NEAR CAINEVILLE, UT

LOCATION.--Lat 38°16'40", long 111°04'00", in NE¼NE¼NE¼ sec. 20, T. 29 S., R. 8 E., Wayne County, Hydrologic Unit 14070003, on right bank 2.0 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 and bubble gage. Elevation of gage is 4,750 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft³/s July 24, 1984, gage height, 10.20 ft, from rating curve extended above 4,000 ft³/s on basis of slope-conveyance study; minimum discharge, 8 ft³/s June 29, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug. 9	1617	*1810	*4.91	Aug. 19	1700	944	3.91

Minimum daily discharge, 12 ft³/s Aug. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e65	91	e95	98	e97	104	87	61	19	19	34	e40
2	e66	90	e95	105	e99	103	85	62	18	26	35	e40
3	e66	88	e92	99	e101	104	86	58	17	26	22	e42
4	e65	88	e93	101	102	105	85	54	22	25	17	e40
5	e67	86	e93	103	99	106	85	53	20	23	16	e40
6	e68	84	e97	100	96	105	88	52	24	19	24	e42
7	e68	84	e95	101	97	103	88	53	22	21	28	e45
8	e69	87	e96	e100	99	102	87	52	19	19	29	e50
9	e70	87	e96	e100	97	98	83	51	19	21	121	e45
10	e70	88	e94	e101	98	98	86	48	20	25	26	e42
11	e71	93	e94	e98	100	96	86	39	23	24	33	e43
12	e71	95	e93	e99	e97	100	79	37	26	20	28	e45
13	70	97	e92	e100	e96	97	71	40	23	20	21	e47
14	69	93	e92	100	e97	95	62	44	18	22	20	e45
15	67	90	92	107	e100	93	58	43	18	24	25	e43
16	70	89	e90	102	e100	92	63	36	20	27	16	e42
17	78	89	89	e101	e103	92	62	30	22	26	12	e39
18	85	91	94	e105	e100	92	56	29	27	23	14	e45
19	81	91	96	e104	e98	94	56	27	33	22	139	e54
20	77	88	89	e102	e97	98	55	27	29	22	58	e60
21	79	89	97	e101	e98	91	50	31	29	17	44	e54
22	88	92	90	e101	e97	91	51	29	29	18	32	e50
23	88	96	93	e101	e96	89	53	25	28	28	22	e48
24	86	88	86	101	e101	89	55	21	25	28	21	e47
25	85	e88	101	101	e108	92	53	23	24	29	21	e46
26	84	e89	104	101	111	89	54	20	29	23	20	e50
27	79	e90	100	101	109	86	64	27	29	20	20	e52
28	81	e90	100	103	105	85	67	33	25	21	e35	e54
29	84	e91	95	e100	---	86	69	31	20	25	e40	e62
30	86	e93	93	e98	---	86	64	28	18	25	e50	e75
31	86	---	96	e95	---	84	---	23	---	26	e45	---
TOTAL	2339	2695	2922	3129	2798	2945	2088	1187	695	714	1068	1427
MEAN	75.5	89.8	94.3	101	99.9	95.0	69.6	38.3	23.2	23.0	34.5	47.6
MAX	88	97	104	107	111	106	88	62	33	29	139	75
MIN	65	84	86	95	96	84	50	20	17	17	12	39
AC-FT	4640	5350	5800	6210	5550	5840	4140	2350	1380	1420	2120	2830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1994, BY WATER YEAR (WY)

MEAN	67.2	86.7	88.8	91.9	98.6	103	98.9	65.9	44.7	48.6	59.7	57.5
MAX	122	133	134	136	143	170	334	213	155	171	162	111
(WY)	1985	1985	1986	1985	1985	1985	1987	1973	1983	1985	1971	1984
MIN	38.0	58.6	66.7	60.2	82.5	79.3	52.5	26.6	21.3	23.0	24.0	23.8
(WY)	1980	1982	1969	1975	1979	1981	1976	1974	1981	1994	1978	1978

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1968 - 1994	
ANNUAL TOTAL	26516		24007			
ANNUAL MEAN	72.6		65.8		75.8	
HIGHEST ANNUAL MEAN					133	1985
LOWEST ANNUAL MEAN					56.6	1978
HIGHEST DAILY MEAN	164	Mar 18	139	Aug 19	1200	Jul 19 1985
LOWEST DAILY MEAN	21	Jul 14	12	Aug 17	12	Jun 27 1980
ANNUAL SEVEN-DAY MINIMUM	22	Jul 1	19	Aug 12	13	Jun 9 1981
ANNUAL RUNOFF (AC-FT)	52590		47620		54940	
10 PERCENT EXCEEDS	102		101		113	
50 PERCENT EXCEEDS	79		71		74	
90 PERCENT EXCEEDS	30		22		30	

e Estimated

09330500 MUDDY CREEK NEAR EMERY, UT

LOCATION.--Lat 38°58'55", long 111°14'55", in NE¼NW¼NE¼ 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 sea level, from topographic map. Apr. 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 Mar. 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
July 31	1530	*128	*2.79				

Minimum daily discharge, 5.2 ft³/s Jan. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	15	e14	e7.5	e5.8	e8.5	7.6	22	64	41	31	13
2	26	13	e12	e8.0	e6.0	e9.0	7.0	21	62	41	30	13
3	22	15	e11	e7.0	e6.5	e9.5	8.1	21	61	41	28	13
4	22	13	e12	e7.5	e7.0	e10	7.7	23	59	39	28	12
5	22	11	e12	e7.0	e7.0	e11	7.3	28	58	33	28	12
6	28	11	e13	e6.5	e7.0	e11	7.5	30	57	38	27	12
7	27	e11	e13	e6.0	e7.5	e12	7.8	34	55	37	27	12
8	25	e12	e14	e6.0	e7.5	e12	7.4	31	54	34	28	12
9	24	e13	e14	e6.5	e7.0	11	7.2	31	52	31	29	12
10	24	e14	e15	e6.5	e7.0	10	6.5	32	50	31	29	12
11	25	e14	e15	e6.0	e6.5	10	5.8	33	49	30	28	12
12	31	e13	e14	e6.0	e6.0	9.4	6.1	40	48	30	28	13
13	24	e12	e13	e6.0	e6.0	9.9	8.1	52	46	30	29	14
14	23	e12	e12	e7.0	e6.5	11	12	57	45	29	29	13
15	23	e12	e11	e6.5	e6.5	12	14	57	44	29	26	13
16	25	e12	e11	e6.0	e7.0	11	16	60	43	30	24	13
17	27	e13	e10	e6.5	e7.0	11	19	54	42	30	22	12
18	26	e12	e9.0	e8.0	e6.5	9.9	21	48	41	30	22	12
19	25	e12	e8.5	e7.5	e6.5	8.6	22	48	41	30	24	12
20	22	e13	e8.0	e7.0	e6.5	8.3	23	45	40	29	22	12
21	19	e13	e7.0	e6.5	e6.0	7.6	27	43	40	29	24	12
22	20	e14	e6.0	e7.0	e5.5	9.0	27	45	38	31	22	11
23	19	e13	e7.0	e6.5	e5.5	7.5	27	47	37	31	20	11
24	19	e13	e6.5	e6.5	e6.0	8.0	26	49	38	29	19	11
25	19	e12	e6.5	e7.0	e7.0	7.4	23	51	48	29	19	11
26	15	e10	e6.8	e7.0	e8.0	6.7	23	54	45	28	18	11
27	13	e11	e7.0	e6.5	e9.0	6.6	22	58	43	28	16	10
28	15	e12	e8.0	e6.5	e9.0	6.3	22	59	42	27	14	10
29	15	e13	e7.0	e6.5	---	6.7	21	59	42	26	13	14
30	12	e13	e7.0	e6.0	---	6.3	20	61	41	26	13	25
31	15	---	e7.5	e5.2	---	6.8	---	65	---	33	13	---
TOTAL	679	377	317.8	206.2	189.3	284.0	459.1	1358	1425	980	730	375
MEAN	21.9	12.6	10.3	6.65	6.76	9.16	15.3	43.8	47.5	31.6	23.5	12.5
MAX	31	15	15	8.0	9.0	12	27	65	64	41	31	25
MIN	12	10	6.0	5.2	5.5	6.3	5.8	21	37	26	13	10
AC-FT	1350	748	630	409	375	563	911	2690	2830	1940	1450	744

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911-13, 1950-94, BY WATER YEAR (WY)

MEAN	18.2	11.8	9.26	7.95	8.50	12.3	33.0	101	122	68.7	40.0	25.5
MAX	60.9	34.8	22.6	14.6	16.1	37.7	112	306	330	239	104	59.7
(WY)	1985	1985	1985	1985	1958	1911	1985	1952	1983	1983	1983	1983
MIN	4.78	3.73	2.00	2.00	3.09	5.72	7.84	14.2	15.7	17.1	7.55	9.58
(WY)	1978	1912	1912	1911	1911	1977	1967	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1911-13, 1950-94	
ANNUAL TOTAL	17310.0		7380.4			
ANNUAL MEAN	47.4		20.2		38.3	
HIGHEST ANNUAL MEAN					86.1	1983
LOWEST ANNUAL MEAN					9.40	1977
HIGHEST DAILY MEAN	274	May 24	65	May 31	515	Jun 3 1952
LOWEST DAILY MEAN	6.0	Dec 22	5.2	Jan 31	.00	Apr 13 1911
ANNUAL SEVEN-DAY MINIMUM	6.7	Dec 21	6.1	Jan 27	1.0	Apr 10 1911
ANNUAL RUNOFF (AC-FT)	34330		14640		27750	
10 PERCENT EXCEEDS	139		43		98	
50 PERCENT EXCEEDS	23		13		17	
90 PERCENT EXCEEDS	8.1		6.5		7.0	

e Estimated

09337000 PINE CREEK NEAR ESCALANTE, UT

LOCATION.--Lat 37°51'45", long 111°38'07", in SW¼NE¼SW¼ 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.

DRAINAGE AREA.--68.1 mi².

PERIOD OF RECORD.--July 1950 to September 1955, July 1957 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage installed June 16, 1994. Elevation of gage is 6,400 ft above sea level, from topographic map. Prior to Aug. 15, 1978, on left bank at same datum.

REMARKS.--Records good except those for flows less than 2.0 ft³/s and estimated daily discharges, which are poor. Several small storage reservoirs upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010 ft³/s, Aug. 2, 1967, gage height, 7.72 ft, from rating curve extended above 35 ft³/s on basis of slope-area measurement at gage height 7.52 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 22	2200	a *106	*3.39	Aug. 11	1715	a 104	3.37

(a) From rating curve extended above 47 ft³/s on basis of slope-area measurement at gage height 4.21 ft.

Minimum daily discharge, 1.1 ft³/s, Aug. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	5.6	5.7	e5.0	e2.6	3.2	4.1	5.6	3.1	6.0	5.1	2.5
2	5.1	5.1	5.4	e5.2	e3.0	3.6	3.7	5.6	2.4	6.2	5.0	1.9
3	5.1	5.4	4.1	e5.0	e3.4	3.9	3.7	5.8	1.8	6.0	4.4	2.6
4	5.1	5.5	4.7	e5.2	e3.6	4.4	3.9	17	1.7	5.9	3.9	1.9
5	5.3	5.0	4.8	e5.4	e3.6	4.6	3.6	26	1.9	5.9	3.6	1.6
6	7.4	4.4	4.6	e5.0	e3.5	4.6	4.1	17	2.1	6.1	3.3	1.6
7	8.8	e5.0	4.6	e5.2	e3.5	4.4	4.0	13	2.2	6.3	3.8	1.7
8	5.9	e5.0	4.9	e5.2	e3.5	4.4	3.9	7.7	4.4	6.4	3.5	1.6
9	6.1	e5.2	5.3	e7.0	e3.5	4.4	4.2	6.5	6.8	6.4	3.4	1.5
10	5.7	e5.8	5.2	e6.0	e3.3	4.2	3.8	5.9	6.9	6.3	3.5	1.5
11	5.7	6.5	4.9	e6.2	e3.1	4.0	3.5	6.1	6.9	6.3	8.5	1.7
12	5.7	6.4	5.0	e6.0	3.0	3.9	3.4	8.5	6.9	6.2	5.6	1.9
13	5.4	5.6	3.9	7.5	3.0	3.9	3.7	8.2	6.9	6.2	3.9	1.7
14	5.3	6.0	e3.2	4.9	3.6	4.3	3.9	7.7	6.7	6.2	3.5	1.6
15	5.3	4.7	e3.1	4.6	3.4	4.8	4.4	5.6	6.7	6.0	4.0	1.6
16	5.5	6.0	e3.1	4.8	3.4	5.0	5.2	5.4	6.7	5.8	2.8	1.6
17	6.2	6.9	e3.1	4.7	3.2	4.9	10	4.6	6.5	5.8	2.9	1.5
18	6.0	7.2	e3.1	4.7	3.1	4.7	16	3.9	6.6	5.9	2.2	1.8
19	5.9	6.5	e3.0	4.6	2.7	4.4	17	3.4	6.9	6.0	2.0	3.9
20	5.6	5.0	e2.8	4.6	2.7	4.4	21	3.4	6.9	6.2	3.0	2.1
21	5.6	5.5	e2.7	4.9	3.1	4.1	27	3.6	7.3	5.9	2.6	1.8
22	5.6	6.4	e3.0	e4.5	2.9	4.3	39	6.7	7.1	5.9	1.9	1.6
23	5.6	6.2	e3.0	e4.0	3.2	4.0	24	6.6	6.7	6.1	1.6	1.6
24	5.5	4.0	e3.4	e4.0	3.3	4.3	13	6.3	6.5	6.0	1.4	1.5
25	5.5	1.5	e4.0	e4.0	3.6	4.0	7.2	7.5	6.5	5.8	1.3	1.5
26	5.4	e2.0	e4.7	e3.5	3.3	3.8	6.7	7.1	6.2	5.6	1.1	1.5
27	5.2	e3.0	e4.9	e3.5	3.2	3.6	6.1	6.5	6.2	5.6	1.8	1.4
28	5.5	e4.0	e5.0	e3.6	3.0	3.5	6.1	6.0	6.2	5.6	3.2	1.4
29	5.5	e5.0	e5.0	e3.6	---	4.2	5.8	5.1	6.1	5.4	1.8	2.1
30	5.2	5.8	e4.6	e3.0	---	4.0	5.7	4.0	6.1	5.2	2.4	6.4
31	5.9	---	e5.0	e2.6	---	4.0	---	3.3	---	5.3	3.5	---
TOTAL	176.8	156.2	129.8	148.0	90.3	129.8	267.7	229.6	165.9	184.5	100.5	58.6
MEAN	5.70	5.21	4.19	4.77	3.22	4.19	8.92	7.41	5.53	5.95	3.24	1.95
MAX	8.8	7.2	5.7	7.5	3.6	5.0	39	26	7.3	6.4	8.5	6.4
MIN	5.1	1.5	2.7	2.6	2.6	3.2	3.4	3.3	1.7	5.2	1.1	1.4
AC-FT	351	310	257	294	179	257	531	455	329	366	199	116

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1994, BY WATER YEAR (WY)

MEAN	3.01	2.81	2.26	2.13	2.16	2.64	7.32	18.7	7.42	6.11	5.05	3.87
MAX	9.10	6.54	6.25	6.05	6.70	6.59	28.9	50.9	34.5	25.4	15.2	9.72
(WY)	1984	1984	1984	1974	1984	1984	1987	1958	1983	1983	1983	1983
MIN	.000	.000	.000	.045	.039	.052	.070	.21	.000	.27	.90	.29
(WY)	1965	1965	1965	1965	1965	1965	1977	1977	1977	1959	1977	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1958 - 1994	
ANNUAL TOTAL	3060.30		1837.7			
ANNUAL MEAN	8.38		5.03		5.31	
HIGHEST ANNUAL MEAN					12.5	1983
LOWEST ANNUAL MEAN					.62	1977
HIGHEST DAILY MEAN	59	May 21	39	Apr 22	205	May 18 1964
LOWEST DAILY MEAN	.50	Jan 22	1.1	Aug 26	.00	Jun 28 1963
ANNUAL SEVEN-DAY MINIMUM	.50	Jan 22	1.5	Sep 22	.00	Jun 28 1963
ANNUAL RUNOFF (AC-FT)	6070		3650		3850	
10 PERCENT EXCEEDS	16		6.7		9.7	
50 PERCENT EXCEEDS	6.3		4.7		3.1	
90 PERCENT EXCEEDS	.80		2.0		.70	

e Estimated

09337500 ESCALANTE RIVER NEAR ESCALANTE, UT

LOCATION.--Lat 37°46'41", long 111°34'26", in NE¼NW¼SE¼ 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 (revised) 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). WRD UT-73-1: 1972.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage, 5,670 ft above sea level, from topographic map. Prior to Apr. 30, 1913, staff at approximately same site at different datum.

REMARKS.--Records good except those for Feb. 9-15, discharges greater than 200 ft³/s, discharges less than 2.0 ft³/s, and estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 2,300 acres of crop- and pastureland.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,450 ft³/s, August 1953, day unknown, gage height, 9.9 ft from outside high-water mark, from rating curve extended above 89 ft³/s on basis of slope-area measurements at gage heights, 4.60 ft, 5.50 ft, 7.34 ft, and 7.59 ft; minimum daily, 0.07 ft³/s, July 11, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 786 ft³/s, Sept. 19, gage height, 4.78 ft, from rating curve extended above 150 ft³/s as explained above and also at gage heights 5.31 ft and 6.15 ft; minimum daily discharge, 0.11 ft³/s, Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	12	8.0	16	e5.0	e33	18	3.4	1.6	.84	1.3	1.2
2	2.2	7.8	8.1	17	e6.0	e37	10	4.1	1.7	1.0	1.3	1.0
3	2.2	8.1	7.6	16	e6.0	e49	6.6	4.8	1.8	.74	1.3	7.7
4	2.3	8.0	7.9	17	6.2	e56	5.5	6.4	1.7	.78	1.2	3.3
5	2.4	7.6	7.7	18	6.4	e45	4.0	28	1.7	.72	1.2	1.9
6	9.6	6.3	7.6	15	6.1	e32	4.1	20	1.6	.70	1.2	.99
7	26	7.6	7.6	16	6.0	e23	4.1	11	1.5	.73	1.3	2.1
8	24	7.2	7.8	16	7.8	19	4.0	3.4	1.5	.76	1.3	7.8
9	32	7.3	8.1	21	16	18	4.6	2.8	1.6	.79	1.3	1.9
10	7.1	7.8	8.3	17	16	18	3.9	2.5	1.8	.74	1.3	1.2
11	7.2	8.7	8.9	18	16	18	3.6	1.8	1.7	.75	3.6	1.8
12	7.9	8.9	8.4	15	14	16	3.1	1.7	1.8	.73	5.2	7.1
13	7.3	7.9	8.8	16	14	16	3.0	1.3	1.6	.76	1.2	2.1
14	7.2	7.9	9.7	16	15	12	3.7	3.3	1.3	.86	1.0	.83
15	7.1	6.4	8.8	13	38	6.6	3.6	3.2	1.3	.86	1.9	.62
16	7.5	7.0	8.3	12	e27	6.2	3.4	1.9	1.6	.85	4.8	.70
17	9.3	7.4	e8.0	12	e26	6.1	4.8	.81	1.6	.86	1.5	.89
18	8.2	7.9	e8.7	12	e24	5.9	10	.77	1.6	.91	1.4	4.4
19	8.1	7.4	e8.3	12	e23	9.8	9.6	e1.4	1.6	.99	1.1	23
20	7.4	6.3	e8.0	10	e22	16	12	e1.8	4.9	.80	3.9	5.5
21	7.1	7.4	e9.5	11	e23	15	16	e1.6	4.4	.82	2.6	2.0
22	7.4	9.0	e9.3	6.9	e22	15	30	e.86	3.3	.99	1.5	1.5
23	7.7	8.5	e9.0	9.4	e25	14	27	e.64	1.3	1.1	1.3	1.1
24	8.0	6.4	e10	6.4	e24	15	12	e.58	1.2	1.1	1.2	.83
25	7.8	5.0	e12	5.9	e26	15	3.3	e.85	.94	.99	1.2	.76
26	7.5	8.8	15	6.4	e23	14	2.9	e.89	.76	1.0	1.2	.70
27	7.5	13	17	6.0	e27	13	3.2	e1.2	.75	1.2	2.5	.53
28	8.0	16	17	5.8	e33	12	3.3	e1.2	.82	1.3	14	.11
29	7.7	18	17	6.4	---	13	3.1	e1.1	.85	1.3	3.3	.23
30	7.2	18	14	5.8	---	12	3.2	e1.2	.83	1.2	1.1	32
31	7.5	---	16	e5.0	---	12	---	e1.7	---	1.2	1.1	---
TOTAL	270.5	265.6	310.4	380.0	503.5	592.6	225.6	116.20	50.65	28.37	69.3	115.79
MEAN	8.73	8.85	10.0	12.3	18.0	19.1	7.52	3.75	1.69	.92	2.24	3.86
MAX	32	18	17	21	38	56	30	28	4.9	1.3	14	32
MIN	2.1	5.0	7.6	5.0	5.0	5.9	2.9	.58	.75	.70	1.0	.11
AC-FT	537	527	616	754	999	1180	447	230	100	56	137	230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1994, BY WATER YEAR (WY)

MEAN	6.62	6.51	5.63	6.52	8.66	12.7	15.6	27.8	19.3	6.11	7.39	6.29
MAX	29.9	23.8	15.5	15.8	19.4	39.7	54.8	124	125	28.0	30.8	29.9
(WY)	1973	1988	1984	1984	1982	1989	1993	1973	1983	1983	1983	1980
MIN	.90	.80	.77	.96	1.21	.67	1.23	1.15	.48	.47	.84	1.14
(WY)	1991	1991	1991	1991	1993	1991	1990	1990	1990	1978	1978	1989

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1973 - 1994	
ANNUAL TOTAL	7164.48		2928.51			
ANNUAL MEAN	19.6		8.02		10.8	
HIGHEST ANNUAL MEAN					30.7	1973
LOWEST ANNUAL MEAN					1.49	1991
HIGHEST DAILY MEAN	159	May 16	56	Mar 4	270	Sep 10 1980
LOWEST DAILY MEAN	.46	Jul 22	.11	Sep 28	.07	Jul 11 1990
ANNUAL SEVEN-DAY MINIMUM	.80	Jul 19	.61	Sep 23	.18	Aug 26 1990
ANNUAL RUNOFF (AC-FT)	14210		5810		7790	
10 PERCENT EXCEEDS	60		18		24	
50 PERCENT EXCEEDS	7.7		6.2		4.5	
90 PERCENT EXCEEDS	1.0		.86		1.0	

e Estimated

09378170 SOUTH CREEK ABOVE RESERVOIR NEAR MONTICELLO, UT

LOCATION.--Lat 37°50'48", long 109°22'08", in NE¼SW¼SW¼ 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, Ut.

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 sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 163 ft³/s Nov. 5, 1987, gage height, 4.17 ft; minimum daily, 0.02 ft³/s Sept. 16-18, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 34 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug. 14	1419	*70	*2.55	No other peak greater than base discharge.			

Minimum daily, 0.02 ft³/s Sept. 16-18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.18	e.17	.14	e.11	.15	.41	3.0	4.1	.18	.08	e.11
2	.48	.18	e.16	.14	e.10	.16	.44	2.7	4.0	.19	.08	e.10
3	.50	.20	e.16	.16	e.11	.16	.45	2.5	3.8	.17	.08	e.13
4	.47	.19	e.14	.18	e.11	.18	.53	2.3	3.5	.17	.08	e.11
5	.50	.18	e.14	.18	e.11	.30	.47	2.2	3.2	.16	.08	e.10
6	.58	e.15	e.14	.16	e.11	.44	.44	2.2	3.0	.16	.08	e.10
7	.46	e.15	e.14	e.14	e.11	.38	.44	2.2	2.8	.16	.08	.05
8	.45	e.16	e.15	e.14	e.13	.40	.44	3.4	2.4	.21	.08	.05
9	.50	.16	e.15	e.15	e.12	.31	.66	5.5	2.2	.20	.08	.05
10	.29	.13	e.15	e.14	e.11	.23	.66	5.1	1.8	.20	.08	.05
11	.28	.14	.15	e.12	e.13	.22	.71	3.4	1.6	.20	e.90	.03
12	.28	.12	.17	e.14	e.12	.30	1.2	3.1	1.3	.21	e.12	.05
13	.25	.11	e.16	e.14	e.11	.34	1.9	3.3	1.0	.21	e.08	.05
14	.22	.11	e.16	e.14	e.12	.41	2.4	3.3	.78	.19	e2.3	.05
15	.22	.13	e.16	e.13	e.11	.43	2.0	3.1	.62	.15	e.15	.03
16	.22	e.12	e.16	e.13	e.13	.50	1.6	2.7	.44	.13	e.14	.02
17	.22	e.12	e.14	e.13	e.14	.67	1.6	2.2	.35	.13	e.13	.02
18	.20	.14	e.14	e.14	e.14	.60	1.6	2.1	.32	.13	e.12	.02
19	.21	.15	.14	e.14	e.13	.72	1.9	2.0	.29	.13	e.13	.06
20	.22	e.15	.14	e.13	e.12	.73	2.4	1.9	.29	.12	e.19	.40
21	.22	e.15	e.13	e.13	e.13	.52	2.3	2.2	.30	.11	e.14	.14
22	.22	.18	e.14	e.13	e.12	.60	1.6	2.0	.28	.11	e.12	.13
23	.22	.18	e.14	e.13	e.12	.49	.91	1.8	.26	.10	e.11	.11
24	.22	e.16	e.13	e.14	e.12	.42	.89	1.6	.22	.09	e.10	.11
25	.22	e.14	e.14	e.14	e.13	.40	1.5	1.8	.22	.09	e.09	.11
26	.22	e.13	e.14	.14	e.14	.43	1.8	1.7	.22	.11	e.09	.11
27	.17	e.15	.14	.14	.14	.42	1.9	1.6	.22	.08	e.12	.08
28	.18	e.16	.14	.14	.15	.37	1.9	1.5	.21	.08	e.11	.08
29	.18	e.17	.14	.12	---	.37	1.8	1.5	.20	.08	e.12	.08
30	.17	e.18	.13	.11	---	.37	1.8	1.4	.18	.08	e.13	e.40
31	.17	---	.14	.11	---	.39	---	2.1	---	.08	e.14	---
TOTAL	9.14	4.57	4.53	4.30	3.42	12.41	38.65	77.4	40.10	4.41	6.33	2.93
MEAN	.29	.15	.15	.14	.12	.40	1.29	2.50	1.34	.14	.20	.098
MAX	.58	.20	.17	.18	.15	.73	2.4	5.5	4.1	.21	2.3	.40
MIN	.17	.11	.13	.11	.10	.15	.41	1.4	.18	.08	.08	.02
AC-FT	18	9.1	9.0	8.5	6.8	25	77	154	80	8.7	13	5.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1994, BY WATER YEAR (WY)

MEAN	.25	.89	.22	.19	.36	2.02	7.07	7.79	2.91	.48	.36	.34
MAX	.45	5.40	.64	.45	1.08	4.77	19.0	33.0	10.8	1.51	.52	.91
(WY)	1987	1988	1988	1988	1986	1993	1993	1993	1993	1993	1987	1991
MIN	.10	.093	.079	.075	.070	.10	.22	.21	.14	.14	.16	.098
(WY)	1992	1993	1993	1990	1993	1991	1990	1990	1990	1994	1990	1994

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1986 - 1994	
ANNUAL TOTAL	2155.03		208.19			
ANNUAL MEAN	5.90		.57		1.91	
HIGHEST ANNUAL MEAN					5.89	1993
LOWEST ANNUAL MEAN					.17	1990
HIGHEST DAILY MEAN	60	May 17	5.5	May 9	60	May 17 1993
LOWEST DAILY MEAN	.05	Feb 26	.02	Sep 16	.02	Sep 16 1994
ANNUAL SEVEN-DAY MINIMUM	.06	Feb 23	.03	Sep 12	.03	Sep 12 1994
ANNUAL RUNOFF (AC-FT)	4270		413		1380	
10 PERCENT EXCEEDS	21		1.9		5.0	
50 PERCENT EXCEEDS	.27		.16		.27	
90 PERCENT EXCEEDS	.08		.10		.10	

e Estimated

09378630 RECAPTURE CREEK NEAR BLANDING, UT

LOCATION.--Lat 37°45'20", long 109°28'33", in NW¼NE¼NW¼ 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 sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft³/s Oct. 20, 1972, gage height, 2.14 ft; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8.0 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 7	1413	*7.8	*1.18				

No flow many days August and September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.03	e.04	e.03	e.02	.01	.64	2.1	1.5	.08	.02	.00
2	.03	.03	e.03	e.03	e.02	.01	.60	2.6	1.4	.08	.01	.00
3	.03	.03	e.03	e.03	e.03	.07	.63	2.8	1.3	.07	.01	.01
4	.03	.03	e.03	e.03	e.03	.35	.74	3.0	1.1	.08	.01	.00
5	.03	.03	e.03	e.04	e.03	.44	.82	3.6	1.0	.07	.01	.00
6	.04	.04	e.03	e.03	e.03	.41	.67	5.1	1.0	.06	.01	.00
7	.04	.03	e.03	e.03	e.03	.42	.58	6.8	.92	.06	.01	.00
8	.03	.03	e.04	e.03	e.03	.36	.52	5.7	.82	.06	.01	.00
9	.03	.03	e.04	e.03	e.03	.06	.60	5.2	.74	.05	.01	.00
10	.03	.03	e.04	e.03	e.03	.05	.56	4.1	.69	.05	.01	.00
11	.03	.03	e.04	e.03	e.03	.07	.57	3.4	.57	.04	.01	.00
12	.03	.03	e.04	e.03	e.03	.18	1.2	3.4	.53	.04	.01	.00
13	.03	.03	e.03	e.03	e.02	.60	1.7	3.7	.42	.04	.01	.00
14	.03	.03	e.03	e.03	e.03	.85	2.4	3.5	.32	.04	.01	.00
15	.03	.03	e.04	e.03	e.03	1.2	2.6	3.4	.27	.04	.01	.00
16	.03	.03	e.03	e.03	e.03	1.5	2.7	3.4	.24	.04	.01	.00
17	.03	.03	e.03	e.03	e.03	1.9	2.8	3.3	.16	.03	.01	.00
18	.03	.03	e.03	e.03	e.03	1.8	2.9	3.0	.15	.03	.01	.00
19	.03	.03	e.03	e.03	e.02	2.0	3.0	2.9	.14	.03	.01	.00
20	.03	.04	e.02	e.03	e.02	2.0	3.1	2.6	.16	.03	.01	.00
21	.03	.03	e.02	e.03	e.02	2.0	3.1	2.3	.19	.03	.01	.00
22	.03	.03	e.02	e.03	e.01	2.3	3.0	2.1	.19	.02	.01	.00
23	.03	.03	e.03	e.03	e.01	2.3	3.0	1.8	.12	.02	.00	.00
24	.03	e.03	e.02	e.03	e.01	.90	3.0	1.8	.08	.02	.00	.00
25	.03	e.02	e.03	e.03	e.01	.47	2.7	2.4	.07	.02	.00	.00
26	.03	.02	e.03	e.03	e.01	.47	2.1	2.1	.07	.02	.00	.00
27	.03	.01	e.04	e.03	e.01	.45	1.7	1.8	.07	.02	.00	.00
28	.03	e.02	e.03	e.03	e.01	.32	1.5	1.7	.07	.02	.00	.00
29	.03	e.03	e.03	e.03	---	.35	1.5	1.6	.08	.02	.00	.00
30	.03	e.03	e.03	e.03	---	.39	1.6	1.6	.07	.02	.00	.00
31	.03	---	e.03	e.02	---	.49	---	1.6	---	.02	.00	---
TOTAL	0.95	0.87	0.97	0.93	0.64	24.72	52.53	94.4	14.44	1.25	0.23	0.01
MEAN	.031	.029	.031	.030	.023	.80	1.75	3.05	.48	.040	.007	.000
MAX	.04	.04	.04	.04	.03	2.3	3.1	6.8	1.5	.08	.02	.01
MIN	.03	.01	.02	.02	.01	.01	.52	1.6	.07	.02	.00	.00
AC-FT	1.9	1.7	1.9	1.8	1.3	49	104	187	29	2.5	.5	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1994, BY WATER YEAR (WY)

MEAN	.20	.15	.059	.040	.12	1.57	5.23	6.97	2.39	.15	.060	.019
MAX	4.77	2.32	.67	.64	.68	11.2	15.9	25.1	13.6	.67	.73	.085
(WY)	1973	1988	1973	1973	1980	1993	1993	1983	1983	1979	1968	1988
MIN	.000	.000	.000	.000	.000	.000	.000	.002	.000	.002	.000	.000
(WY)	1979	1977	1977	1968	1977	1977	1977	1977	1977	1990	1972	1966

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1966 - 1994	
ANNUAL TOTAL	1614.97		191.94			
ANNUAL MEAN	4.42		.53		1.42	
HIGHEST ANNUAL MEAN					4.60	1983
LOWEST ANNUAL MEAN					.008	1977
HIGHEST DAILY MEAN	41	May 17	6.8	May 7	57	Oct 20 1972
LOWEST DAILY MEAN	.01	Jan 24	.00	Aug 23	.00	Dec 20 1965
ANNUAL SEVEN-DAY MINIMUM	.02	Jan 21	.00	Aug 23	.00	Dec 20 1965
ANNUAL RUNOFF (AC-FT)	3200		381		1030	
10 PERCENT EXCEEDS	17		2.1		4.0	
50 PERCENT EXCEEDS	.03		.03		.03	
90 PERCENT EXCEEDS	.02		.00		.00	

e Estimated

09379500 SAN JUAN RIVER NEAR BLUFF, UT

LOCATION.--Lat 37°08'49", long 109°51'51", in SE¼NE¼SW¼ 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. Elevation of gage is 4,048 ft above sea level, from levels of Topographic Division, U.S. Geological Survey. Prior to Mar. 16, 1927, chain gages at sites about 1,700 ft downstream at different datums.

REMARKS.--No estimated daily discharges. Records 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, 1927-94) maximum discharge, 70,000 ft³/s Sept. 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 July 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 Sept. 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
June 6	0315	*8,480	*9.60	No other peak greater than base discharge.			

Minimum, 331 ft³/s Aug. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	738	930	1100	1150	759	1200	654	1590	7520	3800	488	447
2	696	909	1110	1090	717	1800	603	1500	7720	3550	433	399
3	715	888	1110	1050	771	2070	585	1400	7800	3460	419	423
4	704	866	1080	1140	832	2090	577	1530	7860	3400	379	733
5	683	856	1070	1120	873	2000	577	2180	7970	3340	349	1710
6	700	1090	1040	1120	900	1800	585	2260	8290	3310	338	1500
7	755	1100	1040	1090	941	1550	614	2810	7930	3140	357	1270
8	1340	1070	1040	1090	904	1300	583	3590	7280	2940	365	904
9	1530	1050	1030	1050	890	1180	585	3870	6790	2530	526	754
10	1310	1120	1050	1060	904	1140	613	3910	6590	2240	560	705
11	1260	1150	1040	1100	897	1020	807	3960	6480	2140	546	659
12	1280	1420	1050	1090	843	890	794	4010	6430	2150	516	623
13	1230	1630	1090	1080	812	838	719	4300	6160	1980	439	598
14	1360	1500	1090	1080	796	820	704	4960	5820	2020	595	838
15	1260	1410	1060	1100	772	781	676	5210	5800	1990	538	1350
16	1290	1400	1080	1090	741	766	631	5410	5780	1720	582	2000
17	1240	1330	1110	1060	717	751	634	5750	5630	1600	1260	1880
18	1290	1270	1080	1060	705	745	649	5950	5490	1540	950	1450
19	1330	1240	1030	1060	878	743	639	6070	5410	1560	798	1160
20	1200	1180	1040	1030	1180	782	687	5980	5390	1570	662	1170
21	1070	1170	1040	1030	1100	839	975	5940	5450	1520	686	1080
22	1020	1170	1020	1030	920	1000	1170	5800	5160	1270	578	1040
23	996	1170	982	1040	818	993	1230	5590	5360	1230	535	937
24	983	1150	1010	1110	753	869	1370	5750	5390	1120	539	976
25	948	1170	1020	1140	731	829	1640	6150	4880	977	520	913
26	933	1170	971	1140	765	795	1710	7020	4600	910	474	834
27	907	1060	1030	839	782	792	1800	6940	4350	951	418	779
28	943	1010	1120	844	923	790	1760	5780	4100	859	402	727
29	1040	1110	1140	859	---	778	1640	6080	4000	697	378	703
30	963	1140	1150	841	---	760	1590	6500	3900	611	375	732
31	902	---	1170	807	---	746	---	7030	---	574	376	---
TOTAL	32616	34729	32993	32390	23624	33457	27801	144820	181330	60699	16381	29294
MEAN	1052	1158	1064	1045	844	1079	927	4672	6044	1958	528	976
MAX	1530	1630	1170	1150	1180	2090	1800	7030	8290	3800	1260	2000
MIN	683	856	971	807	705	743	577	1400	3900	574	338	399
AC-FT	64690	68880	65440	64250	46860	66360	55140	287300	359700	120400	32490	58100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-17, 1927-94, BY WATER YEAR (WY)

MEAN	1568	1243	1112	1136	1466	1906	3579	5382	5705	2586	1776	1632
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	556	236	80.4	64.5
(WY)	1957	1935	1957	1931	1964	1964	1977	1977	1977	1963	1939	1956

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1915-17, 1927-94	
ANNUAL TOTAL	1157226		650134			
ANNUAL MEAN	3170		1781		2441	
HIGHEST ANNUAL MEAN					7909	1927
LOWEST ANNUAL MEAN					844	1977
HIGHEST DAILY MEAN	9650	May 30	8290	Jun 6	52000	Jun 30 1927
LOWEST DAILY MEAN	445	Aug 7	338	Aug 6	.00	Jul 3 1934
ANNUAL SEVEN-DAY MINIMUM	493	Aug 4	377	Aug 2	.00	Jul 3 1934
ANNUAL RUNOFF (AC-FT)	2295000		1290000		1768000	
10 PERCENT EXCEEDS	7020		5400		6010	
50 PERCENT EXCEEDS	1520		1070		1340	
90 PERCENT EXCEEDS	873		597		494	

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued
(National stream-quality accounting network station)

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 current year.
WATER TEMPERATURES: May 1944 to September 1961, October 1964 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 since October 1980.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,790 microsiemens Sept. 19, 1959; minimum daily, 208 microsiemens June 17, 1952.
WATER TEMPERATURES: Maximum, 33.0°C July 31, 1959; minimum, 0.0°C on many days during winter period of most years.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 383,000 mg/L Sept. 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 recorded, 1,370 microsiemens Aug. 18; minimum observed, 220 microsiemens June 9.
WATER TEMPERATURES: Maximum recorded, 29.1°C Aug. 2; minimum recorded, 0.7°C Dec. 25.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	BAROMETRIC PRESSURE (MM OF HG)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT , 1993											
14...	1200	1340	810	8.4	23.0	16.0	--	8.7	650	--	--
DEC											
01...	1145	1060	760	8.4	8.0	3.0	24	11.4	664	<1	<1
20...	1115	1010	760	8.4	1.5	1.0	--	12.1	663	--	--
JAN , 1994											
19...	1130	1050	680	8.3	5.0	1.5	--	11.5	663	--	--
FEB											
28...	1100	1010	970	8.4	11.5	9.0	--	9.4	657	--	--
MAR											
30...	1200	800	800	8.4	16.5	11.0	17	9.5	664	<1	<1
APR											
28...	1100	1820	540	8.3	14.0	13.0	32	9.3	660	--	--
MAY											
23...	1100	5540	305	8.2	27.0	15.5	--	8.8	660	--	--
JUN											
22...	1115	5190	310	8.1	31.0	20.0	--	8.0	660	--	--
JUL											
28...	1115	857	630	8.2	35.0	25.0	470	6.7	655	<1	<1

DATE	HARDNESS TOTAL (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	CARBONATE WATER DIS IT FIELD MG/L AS CO3	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DISSOLVED (MG/L AS SO4)
OCT , 1993											
14...	310	82	26	50	26	1	3.1	--	--	--	270
DEC											
01...	300	80	23	48	26	1	2.4	1	164	136	240
20...	280	76	22	51	28	1	1.8	--	--	--	240
JAN , 1994											
19...	240	67	18	43	28	1	2.3	--	--	--	200
FEB											
28...	390	95	36	71	28	2	3.3	--	--	--	360
MAR											
30...	300	80	24	58	29	1	2.8	6	149	132	270
APR											
28...	200	58	13	32	26	1	2.2	0	126	103	150
MAY											
23...	120	35	7.5	15	21	0.6	1.6	--	--	--	66
JUN											
22...	120	35	7.0	17	24	0.7	1.8	--	--	--	67
JUL											
28...	210	59	15	48	33	1	2.9	0	155	127	180

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)
OCT , 1993											
14...	14	0.30	7.2	542	539	0.74	1960	0.110	--	<0.010	0.110
DEC											
01...	14	0.30	8.0	518	500	0.70	1480	0.270	--	<0.010	0.270
20...	14	0.30	8.4	508	495	0.69	1390	0.210	--	<0.010	0.210
JAN , 1994											
19...	14	0.30	7.5	442	430	0.60	1250	0.200	0.200	0.020	0.220
FEB											
28...	20	0.30	2.8	704	676	0.96	1920	0.170	--	<0.010	0.170
MAR											
30...	18	0.30	5.0	565	539	0.77	1220	0.082	--	<0.010	0.082
APR											
28...	10	0.30	7.6	354	336	0.48	1740	--	--	<0.010	--
MAY											
23...	3.8	0.20	9.2	200	188	0.27	2990	0.130	0.130	0.020	0.150
JUN											
22...	4.2	0.20	9.7	198	193	0.27	2770	0.100	--	<0.010	0.100
JUL											
28...	11	0.30	11	429	405	0.58	993	0.094	--	<0.010	0.094

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT , 1993										
14...	0.110	0.030	0.04	--	--	--	--	--	<0.010	--
DEC										
01...	0.270	0.020	0.03	--	<0.20	--	0.040	0.010	<0.010	--
20...	0.210	0.020	0.03	--	--	--	--	--	<0.010	--
JAN , 1994										
19...	0.220	0.020	0.03	--	--	--	--	--	<0.010	--
FEB										
28...	0.170	0.010	0.01	--	--	--	--	--	<0.010	--
MAR										
30...	0.082	0.020	0.03	--	<0.20	--	0.030	<0.010	<0.010	--
APR										
28...	<0.050	0.020	0.03	0.68	0.70	0.70	0.270	<0.010	<0.010	--
MAY										
23...	0.150	0.040	0.05	--	--	--	--	--	0.020	0.06
JUN										
22...	0.100	0.030	0.04	--	--	--	--	--	0.010	0.03
JUL										
28...	0.094	0.020	0.03	0.68	0.70	0.79	0.340	<0.010	<0.010	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)
DEC , 1993							
01...	1145	<10	62	<3	6	29	1
MAR , 1994							
30...	1200	<10	55	<3	<3	36	<1
APR							
28...	1100	<10	53	<3	7	21	<1
JUL							
28...	1115	<10	77	<3	<3	28	<1

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, DISSOLVED (UG/L AS V) (01085)
DEC , 1993						
01...	<10	<1	1	<1.0	990	<6
MAR , 1994						
30...	<10	<1	1	<1.0	1000	<6
APR						
28...	<10	<1	<1	<1.0	710	<6
JUL						
28...	<10	<1	<1	<1.0	770	<6

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT , 1993		
14...	1200	60
DEC		
20...	1115	70
JAN , 1994		
19...	1130	60
FEB		
28...	1100	70
MAY		
23...	1100	20
JUN		
22...	1115	20
JUL		
28...	1115	60

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	920	820	883	950	900	927	810	760	789	750	720	736
2	920	820	880	920	890	904	820	780	797	760	720	738
3	930	830	883	930	900	916	810	790	798	770	730	749
4	920	850	890	940	900	923	820	790	799	760	730	750
5	930	850	903	940	890	919	820	780	794	760	720	738
6	940	880	921	940	870	910	820	770	788	760	730	750
7	1000	860	907	890	829	862	810	760	782	780	740	758
8	980	820	901	850	820	830	810	750	784	770	740	761
9	---	---	---	850	820	834	801	760	786	760	650	724
10	---	---	---	850	820	839	810	760	784	750	660	722
11	---	---	---	850	820	834	810	780	792	750	680	722
12	---	---	---	860	790	828	810	760	778	750	690	728
13	---	---	---	870	800	835	810	750	780	750	710	733
14	---	---	---	962	851	892	810	770	793	740	710	725
15	880	820	842	1080	962	1020	800	770	785	740	720	731
16	860	810	843	980	900	946	790	760	777	740	710	724
17	860	820	841	960	920	940	810	770	787	740	650	725
18	980	810	850	970	890	935	810	770	784	750	720	728
19	1030	850	944	910	860	892	780	730	756	730	680	707
20	1020	950	990	890	860	880	790	750	770	700	680	692
21	1000	940	971	910	870	890	810	760	786	710	660	692
22	1000	940	975	890	860	871	790	760	779	710	670	696
23	990	910	951	870	830	853	780	750	764	710	670	694
24	990	890	954	861	840	850	820	760	779	700	660	683
25	970	870	921	880	860	872	800	760	780	690	670	682
26	980	900	959	880	850	868	790	750	772	690	660	676
27	950	900	927	870	780	846	800	740	768	730	670	695
28	930	880	905	850	770	815	770	730	750	780	720	750
29	940	890	912	850	750	828	760	710	740	800	779	785
30	940	900	924	840	800	825	750	740	747	780	751	765
31	940	900	924	---	---	---	760	730	743	780	750	767
MONTH	---	---	---	1080	750	879	820	710	778	800	650	727

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	790	750	771	---	---	---	820	770	796	690	630	651
2	770	730	756	---	---	---	850	810	825	720	610	687
3	780	680	744	---	---	---	870	820	843	740	660	697
4	770	730	748	---	---	---	890	850	870	700	660	683
5	760	730	748	---	---	---	900	850	879	670	540	613
6	780	750	763	---	---	---	900	840	873	600	490	527
7	780	750	766	---	---	---	880	840	865	520	490	501
8	763	740	754	---	---	---	870	830	852	520	430	471
9	810	740	778	---	---	---	869	830	850	470	420	437
10	820	770	796	---	---	---	890	840	867	480	400	421
11	840	800	824	---	---	---	940	860	894	480	390	422
12	870	790	824	---	---	---	---	---	---	440	390	410
13	870	820	854	---	---	---	---	---	---	460	410	426
14	840	800	824	---	---	---	---	---	---	460	390	428
15	830	800	818	---	---	---	---	---	---	430	370	399
16	820	780	800	---	---	---	---	---	---	410	360	388
17	830	760	803	---	---	---	---	---	---	400	350	382
18	850	800	821	---	---	---	---	---	---	390	350	372
19	---	---	---	---	---	---	---	---	---	390	350	371
20	---	---	---	---	---	---	---	---	---	380	350	364
21	---	---	---	---	---	---	---	---	---	380	330	362
22	---	---	---	---	---	---	---	---	---	390	320	357
23	---	---	---	---	---	---	---	---	---	390	280	346
24	---	---	---	---	---	---	---	---	---	370	300	341
25	---	---	---	---	---	---	---	---	---	360	340	351
26	---	---	---	---	---	---	---	---	---	436	350	367
27	---	---	---	---	---	---	---	---	---	530	380	441
28	---	---	---	---	---	---	---	---	---	410	350	384
29	---	---	---	---	---	---	600	557	582	400	300	365
30	---	---	---	---	---	---	640	600	618	390	290	351
31	---	---	---	810	780	798	---	---	---	380	300	343
MONTH	---	---	---	---	---	---	---	---	---	740	280	441

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	360	280	326	---	---	---	940	840	876	1000	920	966
2	350	260	310	---	---	---	930	850	880	1100	870	974
3	340	250	305	---	---	---	960	770	884	1050	950	992
4	350	250	305	---	---	---	940	830	883	992	830	923
5	346	250	301	---	---	---	960	890	916	---	---	---
6	350	250	306	---	---	---	950	880	926	---	---	---
7	340	270	308	---	---	---	980	900	933	---	---	---
8	340	280	313	---	---	---	960	920	941	---	---	---
9	350	220	305	---	---	---	980	850	920	---	---	---
10	350	260	309	---	---	---	920	770	842	---	---	---
11	341	260	304	---	---	---	1150	810	1010	---	---	---
12	350	260	305	---	---	---	1100	830	948	---	---	---
13	340	250	307	---	---	---	910	780	869	---	---	---
14	350	270	317	---	---	---	1010	840	895	---	---	---
15	360	260	325	---	---	---	960	840	890	---	---	---
16	350	260	315	---	---	---	1300	880	972	---	---	---
17	350	260	312	---	---	---	1310	800	953	---	---	---
18	342	260	317	---	---	---	1370	815	1140	---	---	---
19	350	270	320	---	---	---	1210	1020	1100	---	---	---
20	360	270	327	---	---	---	1040	936	988	---	---	---
21	370	270	333	---	---	---	940	830	886	---	---	---
22	380	250	324	---	---	---	1240	880	1060	---	---	---
23	400	230	319	---	---	---	1200	890	1010	---	---	---
24	410	230	315	---	---	---	1040	910	975	---	---	---
25	---	---	---	---	---	---	980	760	929	---	---	---
26	---	---	---	---	---	---	1000	860	913	---	---	---
27	---	---	---	---	---	---	990	890	944	---	---	---
28	---	---	---	---	---	---	1000	890	943	---	---	---
29	---	---	---	810	730	777	1020	900	965	---	---	---
30	---	---	---	900	760	816	1020	890	953	---	---	---
31	---	---	---	910	830	872	1270	900	977	---	---	---
MONTH	---	---	---	---	---	---	1370	760	946	---	---	---

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.7	16.7	17.7	8.5	7.0	7.8	4.7	3.2	3.8	2.8	1.8	2.3
2	18.2	16.3	17.4	8.8	7.3	8.2	4.7	3.4	4.0	2.8	1.6	2.3
3	18.5	16.7	17.8	8.8	7.0	8.0	4.3	3.2	3.7	2.9	1.6	2.2
4	18.6	16.9	17.9	8.7	7.1	8.0	4.1	2.9	3.4	3.1	2.0	2.5
5	18.9	17.5	18.3	8.9	7.4	8.3	3.5	2.1	2.7	4.1	2.6	3.2
6	19.0	17.4	18.3	8.3	6.4	7.3	3.0	2.1	2.6	4.2	3.1	3.7
7	18.3	16.7	17.5	7.4	5.8	6.7	2.8	1.7	2.3	3.5	2.1	2.7
8	17.9	16.0	16.8	7.2	5.4	6.4	2.8	1.6	2.2	2.8	1.3	2.0
9	17.7	15.6	16.5	6.9	5.3	6.2	2.9	2.0	2.5	2.1	1.1	1.6
10	17.7	16.0	16.9	6.8	5.5	6.2	3.1	1.9	2.4	1.8	1.0	1.4
11	17.4	15.8	16.3	7.0	6.2	6.5	3.1	2.1	2.6	1.9	1.1	1.5
12	17.4	15.2	16.2	7.8	6.5	7.1	4.4	3.0	3.6	2.0	1.1	1.5
13	17.6	15.6	16.5	8.4	7.3	7.6	4.1	2.7	3.3	2.4	1.0	1.7
14	17.6	16.0	16.8	8.4	7.2	7.7	3.4	2.0	2.6	2.7	1.3	2.0
15	17.4	15.8	16.5	7.9	7.2	7.6	2.8	1.8	2.2	2.8	1.8	2.4
16	16.7	15.0	15.7	7.9	6.6	7.3	3.7	2.5	3.0	2.8	1.5	2.2
17	15.7	14.6	15.1	7.8	6.6	7.1	3.2	1.7	2.3	2.6	1.4	1.9
18	15.0	13.6	14.2	7.5	6.0	6.7	2.8	1.9	2.3	2.6	1.2	1.9
19	14.1	12.7	13.5	7.0	5.8	6.4	3.2	2.1	2.7	2.8	1.4	2.2
20	13.8	12.2	13.0	6.6	5.0	5.6	3.2	2.0	2.5	2.8	1.6	2.3
21	13.7	11.9	12.7	5.7	4.3	5.0	2.4	1.1	1.5	2.8	1.6	2.3
22	13.5	11.5	12.5	6.2	5.3	5.7	1.5	.9	1.3	2.9	1.5	2.3
23	13.6	12.2	13.0	7.8	6.2	6.9	1.4	1.0	1.3	3.3	1.7	2.4
24	14.0	11.7	13.1	7.9	6.2	7.1	1.6	.9	1.3	4.6	2.9	3.6
25	14.1	10.7	12.9	6.3	3.7	4.7	1.5	.7	1.2	4.7	3.8	4.3
26	13.5	8.6	11.7	3.9	1.9	2.7	3.3	1.0	1.5	5.0	4.2	4.6
27	12.2	9.6	11.2	2.4	1.0	1.5	1.4	1.2	1.3	5.7	4.6	5.1
28	11.8	9.0	10.9	1.8	1.0	1.4	2.3	1.3	1.7	5.5	4.5	5.0
29	11.2	10.3	10.7	2.6	1.3	1.8	3.3	1.3	2.0	5.4	3.8	4.6
30	10.7	8.4	9.1	3.7	2.0	2.6	3.9	1.6	2.4	5.7	4.5	5.1
31	8.6	6.5	7.5	---	---	---	3.8	1.3	2.1	4.7	2.4	3.3
MONTH	19.0	6.5	14.7	8.9	1.0	6.1	4.7	.7	2.4	5.7	1.0	2.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.6	1.2	1.8	10.7	8.6	9.7	14.8	11.9	13.3	17.9	15.4	16.8
2	3.1	.8	1.4	10.1	6.8	9.2	15.6	12.2	14.0	19.0	15.7	17.4
3	1.3	.9	1.2	10.0	6.3	8.7	16.5	14.0	15.1	19.2	17.2	18.2
4	1.4	1.2	1.3	10.3	7.8	9.2	16.3	13.6	14.8	20.5	17.5	18.9
5	3.5	1.4	2.3	11.0	8.8	9.8	15.3	12.5	13.8	20.1	---	---
6	4.7	3.0	3.9	11.5	9.9	10.7	15.1	12.5	13.8	19.0	---	---
7	4.9	4.0	4.5	11.6	9.7	10.7	15.6	13.1	14.2	18.1	---	---
8	6.4	4.6	5.5	12.7	10.7	11.7	14.1	12.3	13.3	17.9	15.8	16.8
9	7.1	5.6	6.4	12.2	10.1	11.4	13.6	12.4	13.0	17.2	15.2	16.0
10	7.0	5.5	6.4	11.6	9.5	10.6	13.7	11.6	12.5	16.9	14.3	15.5
11	7.1	5.9	6.4	11.8	9.8	10.9	13.9	11.3	12.7	16.9	14.8	16.0
12	6.3	4.6	5.4	12.1	10.4	11.4	14.9	12.2	13.7	17.1	14.6	15.8
13	5.4	3.7	4.8	12.6	10.3	11.6	16.8	13.5	15.2	17.1	15.0	16.2
14	5.2	3.5	4.5	13.1	10.8	12.2	16.8	15.2	16.0	17.6	14.8	16.2
15	5.6	3.6	4.8	13.6	11.3	12.6	17.4	14.3	16.1	17.5	15.0	16.3
16	5.8	4.6	5.3	14.2	12.0	13.2	18.4	---	---	16.8	---	---
17	7.1	5.5	6.2	14.6	12.9	13.8	18.7	---	---	16.4	14.6	15.4
18	9.0	7.1	8.0	14.2	12.4	13.2	19.6	15.9	18.3	17.0	---	---
19	8.3	6.8	7.4	13.6	12.0	12.9	21.1	19.0	20.1	16.7	14.8	15.9
20	7.0	5.1	5.9	15.1	12.8	13.9	21.5	19.1	20.4	16.4	13.9	15.4
21	7.1	5.6	6.4	14.7	12.5	13.7	21.9	19.5	20.8	16.6	14.1	15.4
22	7.7	5.8	6.7	14.7	13.2	14.1	22.0	20.3	21.1	17.0	14.1	15.6
23	6.3	4.2	5.4	13.7	11.6	12.9	21.2	18.4	19.5	18.0	15.1	16.4
24	7.0	4.7	5.9	13.8	12.4	13.3	18.4	15.7	16.8	18.9	15.8	17.2
25	7.9	5.6	6.9	13.5	11.3	12.6	15.7	14.1	14.7	18.0	15.1	16.6
26	9.0	6.9	8.1	14.9	12.2	13.5	15.1	13.5	14.2	15.3	13.4	14.4
27	10.1	8.5	9.2	13.8	10.8	11.9	14.4	12.3	13.0	15.8	13.2	14.4
28	11.1	9.0	10.0	11.5	8.8	10.4	15.0	11.9	13.4	17.6	14.4	15.8
29	---	---	---	12.3	9.5	11.1	15.8	12.9	14.3	18.4	15.6	16.9
30	---	---	---	12.6	9.9	11.6	17.2	13.9	15.5	18.5	15.8	17.3
31	---	---	---	13.5	10.3	12.2	---	---	---	18.5	16.2	17.2
MONTH	11.1	.8	5.4	15.1	6.3	11.8	22.0	---	---	20.5	---	---

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.7	15.4	16.6	---	---	---	28.9	25.5	27.3	25.9	24.1	24.8
2	17.8	15.3	16.7	---	---	---	29.1	25.5	27.1	26.0	23.5	24.5
3	17.8	15.5	16.8	---	---	---	28.9	25.5	27.0	26.3	23.4	24.5
4	18.2	15.6	17.0	---	---	---	29.0	25.0	27.1	24.8	23.3	24.2
5	18.2	15.4	17.0	---	---	---	28.7	25.7	26.9	24.8	22.3	23.4
6	17.8	15.3	16.6	---	---	---	28.3	24.9	26.3	24.1	21.6	22.7
7	17.1	15.1	16.2	---	---	---	28.0	24.7	26.2	23.8	21.6	22.5
8	17.5	15.5	16.6	---	---	---	26.1	25.0	25.4	23.8	21.5	22.7
9	17.9	15.2	16.7	---	---	---	26.5	24.4	25.3	23.8	21.8	22.8
10	18.5	15.5	17.0	---	---	---	27.9	25.2	26.5	23.0	21.1	22.1
11	18.8	16.0	17.5	---	---	---	27.9	25.9	27.1	23.2	21.4	22.3
12	18.8	15.9	17.7	---	---	---	27.6	25.7	26.6	23.0	21.7	22.2
13	18.8	16.5	17.8	---	---	---	28.9	25.8	27.3	22.2	20.5	21.4
14	19.0	16.7	17.9	---	---	---	28.4	26.4	27.4	20.6	19.1	20.0
15	18.9	16.5	17.7	---	---	---	28.5	25.3	27.0	20.3	18.3	19.4
16	19.0	16.5	17.7	---	---	---	28.2	25.5	27.1	20.3	17.9	19.0
17	20.0	16.3	18.0	---	---	---	27.8	24.9	26.0	20.3	18.0	19.1
18	20.0	17.0	18.7	---	---	---	25.7	23.4	25.0	20.5	19.0	19.8
19	20.2	17.4	18.7	---	---	---	25.7	23.9	25.2	21.6	19.1	20.3
20	20.8	17.7	19.4	---	---	---	26.2	24.2	25.2	21.6	19.8	20.9
21	20.8	18.5	19.9	---	---	---	26.3	24.3	25.5	21.3	19.5	20.5
22	21.6	19.1	20.2	---	---	---	26.3	24.5	25.7	21.2	15.3	19.1
23	21.6	17.8	19.9	---	---	---	26.3	23.9	25.2	19.7	16.0	18.7
24	21.2	17.4	19.5	---	---	---	25.5	24.6	25.1	19.5	16.1	18.3
25	---	---	---	---	---	---	26.3	23.6	25.0	19.0	15.6	17.4
26	---	---	---	---	---	---	26.1	23.7	25.1	20.0	16.8	18.8
27	---	---	---	---	---	---	26.9	24.8	25.5	19.6	15.5	18.4
28	---	---	---	---	---	---	27.4	24.8	25.8	19.4	16.1	18.4
29	---	---	---	27.5	25.3	26.8	26.8	24.9	25.8	19.6	17.9	18.8
30	---	---	---	27.9	25.3	26.9	27.0	24.0	25.1	19.4	17.4	18.3
31	---	---	---	28.1	25.8	27.2	26.2	23.8	24.9	---	---	---
MONTH	---	---	---	---	---	---	29.1	23.4	26.1	26.3	15.3	20.8

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
DEC , 1993						
01...	1145	1060	3.0	--	208	595
MAR , 1994						
30...	1200	800	11.0	--	195	421
APR						
28...	1100	1820	13.0	90	859	4220
JUL						
28...	1115	857	25.0	91	1470	3400

09379900 LAKE POWELL AT GLEN CANYON DAM, AZ

LOCATION.--Lat 36°56'12", long 111°29'00", in sec. 24, T. 41 N., R. 8 E., Coconino County, Hydrologic Unit 14070006, at Glen Canyon Dam on Colorado River, 900 ft upstream from bridge on U.S. Highway 89, 1.4 mi downstream from Wahweap Creek, 2 mi northwest of Page, and 12 mi downstream from Utah-Arizona State line.

DRAINAGE AREA.--111,700 mi², approximately, including 3,959 mi² in Great Divide Basin in southern Wyoming, which is noncontributing.

PERIOD OF RECORD.--March 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,370 ft above sea level. Prior to Sept. 1, 1964, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete-arch gravity dam; storage began Mar. 13, 1963; dam completed September 1963. Total capacity, (from capacity table computed by U.S. Bureau of Reclamation, based on a survey completed in 1985; used since October 1, 1990) 26,215,000 acre-ft, consisting of the following: Dead storage, 1,893,000 acre-ft below elevation 3,370 ft--sill of outlet gates usable contents, 24,322,000 acre-ft between elevations 3,370 ft and 3,700 ft--top of conservation pool. Reservoir is used for power development, to provide storage replacement for upstream irrigation development, and to meet downstream requirements under the Colorado River Compact of 1922. Figures given herein represent usable contents; prior to Oct. 1, 1968, figures of total contents were published (prior to sealing of diversion tunnel July 7, 1965, all storage was usable).

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES (at 2400) FOR PERIOD OF RECORD.--Maximum contents, 26,373,000 acre-ft July 14, 1983, elevation, 3,708.34 ft; minimum since power pool level was reached (Aug. 16, 1964), 4,166,000 acre-ft Mar. 18, 1965, elevation, 3,490.76 ft.

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 19,257,000 acre-ft June 28, elevation, 3,665.75 ft; minimum, 17,661,000 acre-ft Apr. 23, 25, elevation, 3,653.54 ft.

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

3,650	17,215,000	3,665	19,156,000
3,655	17,846,000	3,670	19,838,000
3,660	18,492,000		

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18817	18787	18686	18398	18113	17848	17775	17734	18664	19239	18709	18075
2	18814	18773	18680	18391	18099	17847	17784	17751	18705	19230	18681	18063
3	18810	18757	18668	18383	18087	17845	17776	17761	18748	19220	18659	18050
4	18805	18760	18660	18373	18080	17846	17769	17767	18796	19212	18634	18038
5	18793	18752	18659	18366	18072	17850	17767	17772	18846	19195	18610	18029
6	18797	18745	18647	18359	18060	17859	17762	17779	18890	19190	18581	18011
7	18803	18749	18639	18346	18047	17854	17757	17788	18933	19170	18561	18007
8	18808	18741	18630	18342	18035	17861	17747	17802	18977	19155	18546	17992
9	18799	18735	18622	18335	18017	17860	17743	17820	19013	19139	18527	17979
10	18800	18734	18611	18322	18004	17860	17738	17831	19043	19128	18496	17973
11	18800	18728	18602	18313	17998	17852	17736	17854	19074	19111	18469	17965
12	18801	18728	18601	18297	17987	17857	17729	17868	19103	19092	18449	17954
13	18800	18734	18589	18291	17984	17857	17720	17892	19124	19074	18433	17932
14	18795	18736	18582	18275	17974	17854	17720	17922	19142	19056	18419	17924
15	18793	18727	18567	18266	17962	17852	17710	17948	19158	19033	18403	17905
16	18796	18728	18556	18265	17955	17845	17705	17986	19170	19015	18378	17896
17	18792	18724	18549	18250	17941	17843	17700	18015	19185	19006	18349	17889
18	18799	18724	18538	18242	17929	17835	17694	18054	19202	18985	18336	17887
19	18797	18719	18536	18233	17922	17836	17684	18096	19214	18966	18313	17891
20	18797	18722	18519	18222	17918	17835	17676	18136	19220	18943	18297	17859
21	18800	18720	18510	18213	17911	17829	17668	18187	19222	18922	18280	17853
22	18800	18715	18494	18206	17903	17822	17665	18237	19229	18914	18259	17846
23	18800	18716	18481	18204	17887	17817	17661	18280	19226	18885	18240	17834
24	18803	18714	18469	18193	17877	17813	17666	18322	19237	18876	18220	17825
25	18803	18710	18460	18178	17869	17808	17661	18373	19244	18856	18201	17820
26	18804	18705	18450	18167	17864	17807	17671	18417	19252	18832	18178	17811
27	18792	18709	18434	18161	17863	17804	17681	18462	19256	18809	18170	17798
28	18797	18707	18429	18149	17852	17797	17694	18507	19257	18787	18151	17785
29	18799	18702	18417	18142	---	17801	17704	18544	19255	18760	18134	17787
30	18791	18694	18411	18139	---	17793	17720	18584	19245	18744	18120	17772
31	18791	---	18403	18122	---	17785	---	18628	---	18724	18090	---
MAX	18800	18800	18700	18400	18100	17900	17800	18600	19300	19200	18700	18100
MIN	18800	18700	18400	18100	17900	17800	17700	17700	18700	18700	18100	17800
(#)	3662.26	3661.53	3659.31	3657.15	3655.04	3654.52	3654.01	3661.03	3665.66	3661.76	3656.90	3654.42
(*)	-34	-97	-291	-281	-270	-67	-65	+908	+617	-521	-634	-318

CAL YR 1993 . . . . . (*) +5068
WTR YR 1994 . . . . . (*) -1053

(#) Elevation, in feet, at end of month.
(*) Change in contents, in thousands of acre-feet.

09403600 KANAB CREEK NEAR KANAB, UT

LOCATION.--Lat 37°06'02", long 112°32'50", in NE¼NE¼SW¼ 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.

DRAINAGE AREA.--198 mi².

PERIOD OF RECORD.--July 1959 to September 1968 (peaks only). January 1979 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 5,060 ft above sea level, from topographic map. A crest-stage gage was in operation at this site from July 22, 1959, to Sept. 30, 1968 at different datum. July 6, 1979, to Sept. 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, Sept. 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, 3.0 ft³/s, June 15, 1986, July 20, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Sept. 10	1645	a*300	b*8.32	No other peak greater than base discharge			

(a) estimated
(b) backwater from flood discharge from Tiny Canyon

Minimum daily discharge, 3.0 ft³/s, July 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	8.7	7.3	8.7	9.3	14	12	13	8.3	5.8	3.9	5.7
2	6.9	9.5	6.4	9.9	9.7	17	12	12	7.7	6.1	3.6	16
3	7.2	9.0	6.6	9.9	8.0	15	12	12	7.5	5.8	3.2	e5.0
4	6.9	9.1	6.5	9.8	9.6	13	12	12	7.6	5.8	3.4	e5.0
5	7.4	8.0	6.8	9.5	10	14	12	13	7.7	6.1	3.7	e5.0
6	31	8.6	6.3	10	10	12	12	12	7.5	5.9	3.8	e5.0
7	26	9.5	6.7	10	12	11	14	12	6.9	5.7	3.8	e5.0
8	5.7	8.4	7.3	8.2	12	13	14	12	7.0	6.1	4.0	e5.0
9	5.5	9.2	6.4	10	10	9.8	15	12	6.8	6.5	3.9	e5.0
10	5.7	8.9	7.0	9.9	9.5	9.2	17	12	6.9	5.6	3.6	e30
11	6.2	9.1	7.3	11	11	10	17	11	6.7	5.6	3.7	6.0
12	9.7	9.4	8.4	10	11	8.3	16	11	5.8	5.2	3.8	7.5
13	7.0	9.0	8.3	9.9	12	12	14	11	5.8	5.7	4.1	9.1
14	6.7	8.3	8.0	9.2	10	9.5	14	11	6.0	5.6	4.3	9.9
15	7.3	9.0	8.5	9.5	10	9.0	14	11	5.3	5.8	4.6	10
16	7.3	9.2	7.8	9.4	11	8.2	14	11	5.1	5.9	4.1	11
17	7.9	7.9	9.7	9.5	13	8.4	14	11	5.5	5.3	11	11
18	8.8	9.0	9.8	9.5	15	8.4	14	12	5.7	9.4	3.4	11
19	7.9	8.2	10	9.6	13	9.2	13	10	5.6	3.6	3.3	15
20	8.1	8.7	10	9.7	11	13	13	10	5.5	3.0	3.7	5.8
21	8.5	8.1	12	10	12	11	14	11	5.5	3.3	3.8	6.0
22	8.9	8.1	11	9.4	11	11	13	10	6.0	3.4	3.8	6.2
23	9.4	7.6	9.9	9.4	11	11	13	9.7	6.0	3.5	3.8	6.4
24	9.6	7.4	14	9.9	10	12	13	11	5.7	3.8	3.8	6.6
25	9.5	7.6	13	10	11	12	13	9.6	5.0	3.7	3.9	6.8
26	9.4	7.2	11	11	13	13	14	8.8	5.3	3.6	4.2	7.0
27	9.5	7.6	8.9	11	15	13	14	9.5	5.5	3.5	4.2	7.2
28	10	6.2	8.7	11	14	13	15	9.4	4.9	3.6	4.4	7.4
29	11	6.6	9.3	10	---	14	14	8.7	5.1	3.9	4.6	7.6
30	9.5	7.2	10	11	---	12	14	7.7	6.1	4.0	5.4	7.9
31	9.3	---	7.7	e12	---	11	---	7.9	---	3.8	5.7	---
TOTAL	291.0	250.3	270.6	307.9	314.1	357.0	412	334.3	186.0	154.6	130.5	252.1
MEAN	9.39	8.34	8.73	9.93	11.2	11.5	13.7	10.8	6.20	4.99	4.21	8.40
MAX	31	9.5	14	12	15	17	17	13	8.3	9.4	11	30
MIN	5.5	6.2	6.3	8.2	8.0	8.2	12	7.7	4.9	3.0	3.2	5.0
AC-FT	577	496	537	611	623	708	817	663	369	307	259	500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1994, BY WATER YEAR (WY)

MEAN	11.7	11.0	12.1	12.9	17.9	25.0	26.1	10.9	7.42	7.37	9.13	9.51
MAX	25.7	15.2	21.7	16.8	45.1	72.4	132	27.6	12.1	13.8	16.5	17.3
(WY)	1982	1988	1980	1983	1980	1983	1980	1980	1981	1981	1981	1986
MIN	6.37	6.58	5.31	6.18	9.04	9.68	6.81	6.80	4.37	4.19	4.21	5.43
(WY)	1989	1990	1990	1987	1992	1988	1990	1991	1986	1982	1994	1989

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1980 - 1994	
ANNUAL TOTAL	5998.7		3260.4			
ANNUAL MEAN	16.4		8.93		13.4	
HIGHEST ANNUAL MEAN					28.4	1980
LOWEST ANNUAL MEAN					7.96	1991
HIGHEST DAILY MEAN	149	Mar 26	31	Oct 6	354	Apr 6 1980
LOWEST DAILY MEAN	4.7	Aug 23	3.0	Jul 20	3.0	Jun 15 1986
ANNUAL SEVEN-DAY MINIMUM	5.1	Jul 15	3.5	Jul 19	3.0	Jun 13 1986
ANNUAL RUNOFF (AC-FT)	11900		6470		9700	
10 PERCENT EXCEEDS	35		13		20	
50 PERCENT EXCEEDS	8.9		9.0		10	
90 PERCENT EXCEEDS	6.2		4.2		5.7	

e Estimated

09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT

LOCATION.--Lat 37°20'19", long 112°36'13", in SE$^1/_4$NE$^1/_4$NW$^1/_4$ sec. 14, T. 40 S., R. 7 W., Kane County, Hydrologic Unit 15010008, on right bank 50 ft downstream from Lydia's Creek, and 1.0 mi north of the town of Glendale on U.S. Highway 89.

DRAINAGE AREA.--74.2 mi^2.

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

GAGE.--Water-stage recorder and artificial concrete control. Elevation of gage is 5,900 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. A few small diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 640 ft^3/s, July 27, 1976, gage height, 4.14 ft; minimum daily discharge, 3.3 ft^3/s, June 20, 1989.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 6	1030	*127	*2.02	No other peaks greater than base discharge.			

Minimum daily discharge, 4.8 ft^3/s, June 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	14	15	16	14	24	18	15	8.2	5.1	6.0	7.2
2	12	14	15	16	14	27	17	14	8.4	4.9	6.0	7.4
3	13	14	14	16	15	29	17	12	8.0	4.9	6.0	8.5
4	13	14	14	16	17	31	17	10	8.1	4.9	5.9	7.6
5	14	14	14	17	16	30	17	9.1	8.2	4.9	5.9	7.1
6	33	14	14	16	17	29	16	8.3	8.5	4.9	5.9	6.9
7	30	15	15	14	17	31	16	8.2	7.5	5.2	6.0	6.1
8	17	15	15	15	22	33	16	8.9	7.5	5.5	6.1	6.4
9	15	14	15	15	17	32	28	9.1	7.8	5.2	6.0	6.1
10	15	15	15	15	17	28	26	9.1	7.9	5.2	6.1	6.0
11	20	18	15	15	17	26	20	9.9	7.2	5.3	6.0	6.1
12	20	20	17	15	16	27	15	10	7.7	5.6	6.0	6.2
13	16	18	15	16	16	29	13	11	9.4	5.5	6.5	7.0
14	15	17	15	16	16	29	12	11	7.6	5.3	5.8	7.2
15	15	15	15	16	16	30	12	10	6.4	5.6	6.3	7.8
16	16	15	16	16	17	37	11	9.3	6.7	5.6	6.3	7.8
17	19	15	15	15	25	29	11	7.8	6.4	5.4	6.7	7.1
18	15	15	15	16	25	27	11	9.5	6.5	5.7	7.4	7.4
19	15	15	15	14	20	32	10	9.4	6.5	6.3	5.8	9.0
20	13	14	14	16	19	28	9.5	9.3	6.6	6.3	6.7	9.5
21	13	14	14	16	18	24	8.6	10	7.2	6.2	6.8	8.6
22	13	17	14	15	18	24	8.5	10	6.6	6.4	6.3	8.7
23	14	16	14	15	17	24	7.9	9.2	6.0	6.4	5.9	8.4
24	14	15	14	15	18	24	7.8	8.7	6.0	6.8	7.5	7.2
25	13	13	15	15	21	24	10	11	5.9	6.7	6.8	7.0
26	16	13	15	16	22	24	20	12	6.0	6.4	6.6	7.2
27	13	13	16	15	21	21	23	12	5.9	6.5	5.8	6.6
28	14	14	16	16	22	18	27	12	5.1	6.5	6.2	6.2
29	14	15	16	15	---	17	20	10	4.8	6.5	7.3	6.2
30	14	15	16	15	---	17	16	8.9	4.9	6.4	7.0	7.7
31	14	---	16	14	---	18	---	8.3	---	6.1	7.2	---
TOTAL	490	450	464	478	510	823	461.3	313.0	209.5	178.2	196.8	218.2
MEAN	15.8	15.0	15.0	15.4	18.2	26.5	15.4	10.1	6.98	5.75	6.35	7.27
MAX	33	20	17	17	25	37	28	15	9.4	6.8	7.5	9.5
MIN	12	13	14	14	14	17	7.8	7.8	4.8	4.9	5.8	6.0
AC-FT	972	893	920	948	1010	1630	915	621	416	353	390	433

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1994, BY WATER YEAR (WY)

MEAN	13.8	15.5	16.6	16.9	19.2	25.1	40.7	32.1	15.8	12.0	11.9	11.4
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	8.93	6.38	5.16	5.55	5.72	5.10
(WY)	1990	1990	1990	1991	1991	1977	1989	1989	1989	1991	1991	1989

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1967 - 1994	
ANNUAL TOTAL	12040.4		4792.0			
ANNUAL MEAN	33.0		13.1		19.2	
HIGHEST ANNUAL MEAN					46.2	1980
LOWEST ANNUAL MEAN					8.26	1990
HIGHEST DAILY MEAN	172	Apr 12	37	Mar 16	285	Apr 21 1980
LOWEST DAILY MEAN	9.5	Aug 17	4.8	Jun 29	3.3	Jun 20 1989
ANNUAL SEVEN-DAY MINIMUM	11	Sep 5	4.9	Jun 29	3.7	Jun 19 1989
ANNUAL RUNOFF (AC-FT)	23880		9500		13930	
10 PERCENT EXCEEDS	98		22		27	
50 PERCENT EXCEEDS	15		14		15	
90 PERCENT EXCEEDS	12		6.0		7.9	

09404700 EAST FORK VIRGIN RIVER NEAR MOUNT CARMEL JUNCTION, UT

LOCATION.--Lat 37°12'30", long 112°41'16", in SE¼SW¼SE¼ 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.--179.3 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,140 above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Many diversions for irrigation above station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 18, 1992 reached a stage of 5.34 ft, present datum, from floodmarks, discharge, 550 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 401 ft³/s, Oct. 31, 1992, gage height, 4.08 ft in gage well, 5.00 ft, from floodmarks, from rating curve extended above 150 ft³/s on basis of slope-area measurement; minimum daily discharge 0.89 ft³/s, Aug. 21, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 372 ft³/s, Oct. 6, gage height, 3.96 ft, from rating curve extended above 150 ft³/s on basis of slope-area measurement; minimum daily discharge 0.89 ft³/s, Aug. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	e25	26	25	22	32	23	14	3.7	1.7	1.1	1.1
2	12	e25	26	25	25	35	23	12	4.4	2.2	1.1	2.6
3	12	e25	25	26	25	35	22	11	4.0	2.2	1.1	4.8
4	12	e25	25	26	24	37	23	7.7	3.4	1.7	1.0	1.7
5	15	e25	25	26	24	37	23	6.7	3.2	1.6	1.1	1.6
6	e81	e25	25	24	24	36	22	5.3	3.0	1.5	1.1	2.5
7	e40	e26	25	22	24	35	22	5.1	2.8	1.4	1.1	1.6
8	e28	e26	25	24	26	36	21	6.1	2.7	1.4	1.2	1.5
9	e26	e25	26	24	26	34	29	5.8	2.8	1.3	1.2	1.6
10	e26	e26	26	23	26	32	27	5.0	2.8	1.3	1.2	1.6
11	e30	e28	26	23	28	31	26	4.5	2.7	1.3	1.2	1.6
12	e30	e32	28	23	24	31	24	4.7	2.6	1.3	1.1	1.2
13	e28	e29	26	24	25	34	21	4.7	2.6	1.3	1.2	1.1
14	e27	e28	26	25	26	33	19	5.8	2.7	1.3	1.4	1.5
15	e26	e27	26	25	26	33	17	5.1	2.8	1.2	1.4	1.5
16	e28	e27	26	24	26	38	14	5.8	2.6	1.2	1.1	1.5
17	e29	e27	26	24	49	34	12	3.8	2.5	1.2	5.5	1.5
18	e28	e27	25	24	40	32	12	4.4	2.5	1.6	5.2	1.3
19	e28	e26	25	24	28	32	11	4.1	2.5	2.1	1.8	1.5
20	e25	e26	24	23	26	36	10	3.9	2.5	1.8	1.2	2.0
21	e23	e26	25	23	26	31	8.5	3.7	2.4	1.5	.89	2.5
22	e25	e28	25	24	25	28	8.3	4.1	2.4	1.5	.91	1.8
23	e26	e27	25	23	25	27	6.1	4.1	2.4	1.5	1.0	1.6
24	e25	e26	27	24	26	26	4.1	3.8	2.4	1.5	1.2	1.5
25	e25	23	26	23	27	27	6.4	5.0	2.2	1.5	1.1	1.5
26	e28	25	26	23	29	29	16	5.9	1.9	1.6	1.1	1.7
27	e25	26	25	23	29	27	16	5.5	1.9	1.5	1.2	1.8
28	e26	26	26	23	29	24	21	5.4	1.9	1.5	1.3	2.1
29	e26	26	25	24	---	25	19	5.8	1.9	1.5	1.1	2.5
30	e26	26	25	23	---	24	15	4.7	1.7	1.3	1.1	7.0
31	e25	---	25	22	---	23	---	3.7	---	1.1	1.2	---
TOTAL	825	789	792	739	760	974	521.4	177.2	79.9	46.6	44.40	59.3
MEAN	26.6	26.3	25.5	23.8	27.1	31.4	17.4	5.72	2.66	1.50	1.43	1.98
MAX	81	32	28	26	49	38	29	14	4.4	2.2	5.5	7.0
MIN	12	23	24	22	22	23	4.1	3.7	1.7	1.1	.89	1.1
AC-FT	1640	1560	1570	1470	1510	1930	1030	351	158	92	88	118

CAL YR 1993 TOTAL 15053.7 MEAN 41.2 MAX 173 MIN 4.7 AC-FT 29860
WTR YR 1994 TOTAL 5807.80 MEAN 15.9 MAX 81 MIN .89 AC-FT 11520

e Estimated

09404900 EAST FORK VIRGIN RIVER NEAR SPRINGDALE, UT

LOCATION.--Lat 37°09'51", long 112°57'28", in SE¼SW¼NW¼ 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.--395 mi², approximately.

PERIOD OF RECORD.-October 1991 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,940 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good except those for flows above 200 ft³/s, which are fair. Numerous diversions for irrigation upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,940 ft³/s, Aug. 29, 1993, gage height, 9.70 ft, 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, 33 ft³/s, Sept. 7-9, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 270 ft³/s, Feb. 17, gage height, 5.57 ft, from rating curve extended as explained above; minimum daily discharge, 35 ft³/s, June 26-29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	59	64	61	58	72	64	56	41	38	38	38
2	40	57	63	60	60	77	63	55	38	38	37	39
3	39	58	63	61	62	80	63	52	38	38	37	44
4	39	60	62	62	64	81	63	49	40	38	37	43
5	40	60	62	62	63	83	64	45	38	38	37	41
6	103	60	62	61	64	80	63	45	37	38	37	41
7	102	58	62	58	66	79	62	44	39	38	37	42
8	57	58	63	60	83	81	62	45	37	38	37	41
9	50	58	63	60	67	79	80	45	37	38	37	40
10	47	58	63	60	65	77	77	44	37	38	37	39
11	48	80	63	60	66	76	73	44	36	38	37	40
12	77	88	69	60	60	76	69	43	36	38	37	39
13	54	68	63	60	60	77	67	43	36	38	37	39
14	52	71	63	62	64	77	65	43	36	38	36	39
15	52	63	65	62	63	77	63	43	36	38	36	38
16	53	61	64	61	64	82	58	42	36	38	36	38
17	58	62	62	60	108	80	55	43	36	38	39	38
18	62	62	63	61	126	76	55	41	36	39	44	38
19	60	61	63	61	75	78	53	41	36	39	40	38
20	58	60	61	62	68	85	53	41	36	39	39	40
21	57	61	61	61	69	75	51	40	37	40	38	41
22	57	65	61	62	66	70	49	40	36	39	37	38
23	58	64	61	61	63	67	49	40	36	38	37	37
24	59	63	59	62	65	68	46	40	36	38	37	37
25	58	59	62	63	68	72	48	40	36	38	37	36
26	56	59	61	63	72	74	60	43	35	38	37	36
27	57	61	62	62	72	69	62	42	35	38	38	36
28	57	62	60	62	72	66	79	40	35	38	38	37
29	60	63	60	61	---	65	67	39	35	38	37	41
30	60	64	60	61	---	66	57	39	38	37	37	47
31	60	---	60	58	---	64	---	41	---	38	38	---
TOTAL	1771	1883	1930	1890	1953	2329	1840	1348	1101	1183	1163	1181
MEAN	57.1	62.8	62.3	61.0	69.7	75.1	61.3	43.5	36.7	38.2	37.5	39.4
MAX	103	88	69	63	126	85	80	56	41	40	44	47
MIN	39	57	59	58	58	64	46	39	35	37	36	36
AC-FT	3510	3730	3830	3750	3870	4620	3650	2670	2180	2350	2310	2340

CAL YR 1993 TOTAL 31754 MEAN 87.0 MAX 320 MIN 33 AC-FT 62980
WTR YR 1994 TOTAL 19572 MEAN 53.6 MAX 126 MIN 35 AC-FT 38820

09405490 NORTH FORK VIRGIN RIVER ABOVE BIG BEND NEAR SPRINGDALE, UT

LOCATION.--Lat 37°16'43", long 112°56'38", in NW¼NE¼ sec. 3, T. 41 S., R. 10 W., Washington County, Hydrologic Unit 15010008, Zion National Park, on left bank, 0.4 mi upstream from Big Bend, and 8.0 mi north of Springdale.

DRAINAGE AREA.--311 mi², approximately.

PERIOD OF RECORD.-October 1991 to September 1994 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 4,400 ft above sea level, from topographic map.

REMARKS.--Records good except those for flows above 600 ft³/s, which are fair, and those for Sept. 3-7 and estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,180 ft³/s, Sept. 3, 1994, gage height 9.40 ft from crest-stage gage, from rating curve extended above 1,200 ft³/s on basis of slope-area measurement at gage height, 9.18 ft; minimum daily discharge, 30 ft³/s, Dec. 1, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,180 ft³/s, Sept. 3, gage height 9.40 ft, from rating curve extended as explained above; minimum daily discharge, 33 ft³/s, Aug. 5-7.

REVISIONS.--The maximum discharge for water year 1993 has been revised to 1,680 ft³/s, May 3, gage height 8.37 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	60	e69	e56	e48	e58	88	148	89	e49	e40	49
2	52	59	e70	e56	e50	e63	93	136	81	e48	e35	49
3	52	59	e68	e55	e56	e67	102	132	78	e48	e35	217
4	52	60	e68	e56	e56	e73	106	139	75	e48	e34	50
5	54	59	e68	e57	e54	e75	86	171	74	e49	e33	45
6	133	57	e69	e55	e57	e71	83	187	71	e49	e33	44
7	95	59	e67	e49	e57	e73	83	179	68	e48	e33	48
8	62	59	e67	e53	e63	e76	88	151	67	e48	e34	47
9	58	59	e69	e53	e57	e69	108	139	67	e47	e37	46
10	58	60	e67	e56	e56	e66	87	138	65	e47	e36	45
11	61	70	e67	e53	e56	e67	86	140	63	e46	e36	42
12	67	80	e78	e55	e52	e64	95	155	61	e46	e37	41
13	61	66	e64	e55	e50	e67	106	191	59	e46	e47	40
14	59	67	e68	e55	e57	e72	126	200	59	e44	e48	40
15	59	61	e68	e56	e55	e80	145	201	57	e41	e47	40
16	61	61	e66	e55	e55	e79	159	167	57	e40	e44	40
17	69	62	e62	e53	e107	e84	181	129	56	e40	e90	40
18	67	63	e65	e55	e83	e82	177	115	56	e41	e80	38
19	64	65	e66	e55	e57	e100	177	110	56	e50	e68	37
20	62	67	e59	e54	e55	e93	191	103	55	e52	e58	40
21	61	71	e55	e54	e55	e79	198	109	57	e48	e80	40
22	60	76	e55	e54	e53	e83	210	105	56	e46	e58	38
23	63	73	e54	e54	e49	74	191	101	53	e44	e46	38
24	61	69	e52	e54	e55	68	150	98	52	e42	e45	37
25	59	59	e54	e55	e59	73	135	101	52	e42	e43	36
26	59	57	e58	e55	e59	73	135	101	51	e43	e50	36
27	58	62	e61	e53	e57	69	134	130	51	e41	e53	36
28	59	69	e60	e54	e57	63	151	104	51	e40	e53	36
29	60	70	e56	e51	---	69	140	96	51	e40	e55	37
30	59	70	e55	e52	---	75	144	90	51	e46	e50	49
31	60	---	e56	e46	---	77	---	93	---	e43	e49	---
TOTAL	1957	1929	1961	1674	1625	2282	3955	4159	1839	1402	1487	1421
MEAN	63.1	64.3	63.3	54.0	58.0	73.6	132	134	61.3	45.2	48.0	47.4
MAX	133	80	78	57	107	100	210	201	89	52	90	217
MIN	52	57	52	46	48	58	83	90	51	40	33	36
AC-FT	3880	3830	3890	3320	3220	4530	7840	8250	3650	2780	2950	2820

CAL YR 1993 TOTAL 76717 MEAN 210 MAX 1380 MIN 36 AC-FT 152200
WTR YR 1994 TOTAL 25691 MEAN 70.4 MAX 217 MIN 33 AC-FT 50960

e Estimated

09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT

LOCATION.--Lat 37°12'35", long 112°58'40", in NW¼SW¼NW¼ 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. Elevation of gage is 3,970 ft above sea level, from topographic map. May 13, 1913, to June 30, 1914, nonrecording gage at site 3.8 mi downstream (revised) at different datum. June 6, 1923, to Dec. 14, 1949, nonrecording gages at several sites within 0.8 mi of present site at various datums.

REMARKS.--No estimated daily discharges. Records good. 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 observed, 20 ft³/s, July 31, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,790 ft³/s, Sept. 3, gage height, 5.55 ft; minimum daily discharge, 22 ft³/s, Aug. 5-7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	61	78	65	50	66	92	162	94	38	27	39
2	49	62	80	64	56	75	99	146	84	37	25	40
3	48	62	77	64	67	82	113	135	75	37	25	222
4	48	63	78	66	70	88	119	139	72	37	24	46
5	51	62	77	64	65	93	95	177	70	38	22	34
6	169	59	79	64	69	87	89	198	68	38	22	31
7	151	61	76	54	71	89	87	200	66	37	22	36
8	72	64	77	58	97	92	92	164	63	37	24	35
9	63	63	80	61	77	85	186	149	61	36	26	35
10	63	65	79	64	71	80	107	145	59	36	25	35
11	84	118	79	61	72	81	95	148	58	35	25	33
12	80	120	104	63	60	77	108	160	55	35	26	29
13	66	81	75	65	58	82	114	204	54	35	37	29
14	63	83	81	66	68	86	139	223	53	33	38	29
15	62	68	83	65	66	93	169	221	52	31	37	29
16	62	67	80	63	67	92	190	208	52	30	32	29
17	75	70	72	62	183	99	209	172	52	30	88	29
18	74	70	77	65	139	96	209	148	53	31	67	27
19	68	71	79	66	77	139	190	137	53	39	53	27
20	64	75	69	64	69	120	208	126	53	42	44	32
21	63	81	61	63	67	98	216	116	55	38	79	32
22	63	89	61	64	61	96	233	110	54	35	47	29
23	67	87	58	62	52	84	225	103	48	32	37	30
24	65	81	55	63	63	77	168	102	46	31	36	30
25	60	66	59	64	70	87	143	109	46	31	34	29
26	58	65	67	66	72	85	162	118	45	32	40	29
27	58	71	72	63	66	74	159	151	42	31	44	26
28	60	82	72	62	66	64	220	114	41	30	44	26
29	61	83	66	59	---	69	150	102	40	30	45	27
30	62	83	62	60	---	76	156	94	39	36	41	51
31	62	---	64	53	---	79	---	94	---	31	39	---
TOTAL	2139	2233	2277	1943	2069	2691	4542	4575	1703	1069	1175	1155
MEAN	69.0	74.4	73.5	62.7	73.9	86.8	151	148	56.8	34.5	37.9	38.5
MAX	169	120	104	66	183	139	233	223	94	42	88	222
MIN	48	59	55	53	50	64	87	94	39	30	22	26
AC-FT	4240	4430	4520	3850	4100	5340	9010	9070	3380	2120	2330	2290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1988, BY WATER YEAR (WY)

MEAN	52.5	57.0	62.7	59.1	74.9	90.0	226	315	120	65.2	64.6	59.7
MAX	89.1	104	297	196	501	191	636	1081	690	137	144	151
(WY)	1984	1966	1967	1980	1980	1983	1969	1983	1983	1983	1968	1980
MIN	32.6	36.8	38.6	39.7	42.3	43.8	51.8	49.8	34.4	28.5	30.3	28.4
(WY)	1956	1957	1975	1964	1977	1977	1977	1977	1961	1963	1960	1956

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1994, BY WATER YEAR (WY)

MEAN	45.2	48.9	48.1	54.1	65.6	115	222	229	76.8	48.3	43.2	37.8
MAX	69.0	74.4	73.5	89.1	101	263	644	813	205	89.1	63.2	54.7
(WY)	1994	1994	1994	1993	1993	1993	1993	1993	1993	1993	1993	1993
MIN	33.4	35.9	36.6	39.0	47.7	54.0	76.2	55.8	36.5	34.5	34.4	24.8
(WY)	1992	1990	1990	1991	1990	1990	1990	1990	1990	1994	1990	1989

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1989 - 1994	
ANNUAL TOTAL	77434		27571			
ANNUAL MEAN	212		75.5		86.2	
HIGHEST ANNUAL MEAN					207	1993
LOWEST ANNUAL MEAN					43.6	1990
HIGHEST DAILY MEAN	1140	May 4	233	Apr 22	1140	May 4 1993
LOWEST DAILY MEAN	42	Jan 12	22	Aug 5	22	Aug 5 1994
ANNUAL SEVEN-DAY MINIMUM	47	Sep 23	23	Aug 2	23	Aug 2 1994
ANNUAL RUNOFF (AC-FT)	153600		54690		62450	
10 PERCENT EXCEEDS	650		145		145	
50 PERCENT EXCEEDS	80		65		50	
90 PERCENT EXCEEDS	54		31		31	

09406000 VIRGIN RIVER AT VIRGIN, UT

LOCATION.--Lat 37°12'15", long 113°10'48", in SW¼NW¼SW¼ 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 and crest-stage gage. Elevation of gage is 3,500 ft above sea level, from topographic map. At present location since July 18, 1985; from Oct. 1, 1978, to July 5, 1985, located 2 mi downstream on left bank, and from Dec. 19, 1949, to September 1971, located directly across from previous site, on right bank at different datum. Prior to Dec. 19, 1949, nonrecording gages at several sites within 3 mi of present site at various datums.

REMARKS.--No estimated daily discharges. Records good except those for Oct. 6-7, Feb. 17-18, Mar. 19, Apr. 28, May 26, Aug. 17, and Sept. 3, 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 July 10, 1920 and June 11, 1921.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 6	1915	a 2,490	12.25	Sept. 3	0545	a*3,240	*12.92
May 26	2145	a 1,700	11.38				

(a) From rating curve extended above 812 ft³/s on basis of one slope-area measurement at gage height, 13.72 ft.

Minimum daily discharge, 53 ft³/s, Aug. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	132	141	144	131	167	169	237	135	68	65	69
2	82	133	136	147	136	180	174	224	120	67	59	68
3	79	133	139	145	143	193	187	207	113	66	60	649
4	77	138	139	145	152	202	192	202	111	66	57	94
5	84	134	139	145	148	213	168	225	108	67	56	75
6	358	134	139	144	149	201	160	245	103	68	54	72
7	397	135	141	135	156	195	154	249	101	66	53	73
8	143	138	141	133	220	200	152	215	99	67	58	69
9	124	138	143	138	178	192	302	197	96	67	60	68
10	121	138	144	140	161	185	222	192	93	64	61	67
11	135	212	143	138	164	186	183	189	91	65	56	67
12	186	262	177	140	151	178	187	202	90	66	59	65
13	134	188	148	140	148	182	187	241	89	64	93	61
14	124	172	146	143	154	183	212	286	88	62	66	63
15	121	148	151	143	155	194	242	276	85	62	63	61
16	123	142	152	144	158	196	262	279	82	61	59	61
17	149	143	143	139	332	203	278	228	81	60	85	61
18	154	144	144	139	413	196	280	189	81	66	129	62
19	143	143	148	141	188	269	252	175	83	72	90	61
20	133	147	145	146	163	244	270	163	83	73	81	66
21	129	150	140	141	161	192	274	155	88	71	96	67
22	129	161	139	139	155	179	288	147	89	69	82	64
23	131	156	135	140	144	168	289	143	82	66	69	63
24	134	146	135	142	147	161	225	140	79	65	65	63
25	130	134	139	143	162	174	204	145	77	64	66	61
26	128	127	145	149	176	199	257	203	78	63	68	66
27	129	130	152	145	168	167	261	203	76	63	71	62
28	127	138	149	143	169	151	449	152	74	63	74	63
29	131	144	147	140	---	151	272	135	74	63	72	63
30	131	146	143	140	---	156	232	128	70	76	71	82
31	135	---	144	136	---	161	---	134	---	64	68	---
TOTAL	4378	4486	4467	4387	4882	5818	6984	6106	2719	2044	2166	2586
MEAN	141	150	144	142	174	188	233	197	90.6	65.9	69.9	86.2
MAX	397	262	177	149	413	269	449	286	135	76	129	649
MIN	77	127	135	133	131	151	152	128	70	60	53	61
AC-FT	8680	8900	8860	8700	9680	11540	13850	12110	5390	4050	4300	5130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-71, 1979-94, BY WATER YEAR (WY)

MEAN	104	138	150	147	183	222	362	397	151	103	124	111
MAX	185	234	648	461	833	551	981	1582	762	207	255	289
(WY)	1984	1966	1967	1969	1980	1993	1993	1979	1983	1980	1983	1958
MIN	66.7	88.1	98.5	110	108	117	121	87.5	58.1	50.1	55.3	53.1
(WY)	1957	1957	1957	1965	1961	1963	1970	1959	1961	1960	1960	1956

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1951-71, 1979-94	
ANNUAL TOTAL	134472		51023			
ANNUAL MEAN	368		140		183	
HIGHEST ANNUAL MEAN					390	1980
LOWEST ANNUAL MEAN					95.7	1990
HIGHEST DAILY MEAN	1960	Feb 20	649	Sep 3	9670	Dec 6 1966
LOWEST DAILY MEAN	74	Sep 29	53	Aug 7	40	Aug 14 1963
ANNUAL SEVEN-DAY MINIMUM	76	Sep 23	57	Aug 2	44	Jul 17 1961
ANNUAL RUNOFF (AC-FT)	266700		101200		132200	
10 PERCENT EXCEEDS	1000		217		322	
50 PERCENT EXCEEDS	154		140		121	
90 PERCENT EXCEEDS	85		64		70	

09406640 LEAP CREEK ABOVE MAPLE HOLLOW, NEAR PINTURA, UT

LOCATION.--Lat. 37°22'58", long 113°17'58", in NE¼SW¼ sec. 22, T. 39 S., R. 13 W., Washington County, Hydrologic Unit 15010008, Dixie National Forest, on right bank about 200 ft upstream from unnamed diversion, and 4.6 mi northwest of Pintura.

DRAINAGE.--7.17 mi².

PERIOD OF RECORD.--December 1993 to September 1994.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,110 ft above sea level, from topographic map.

REMARKS.--Records poor. No diversions upstream of station.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 17	1730	21	4.76	Aug. 12	2205	a*94	*6.17
Apr. 29	1550	28	4.94	Aug. 20	1735	25	4.86

(a) From rating curve extended above 2.6 ft³/s on basis of slope-area measurement.

Minimum daily discharge, 0.06 ft³/s, Aug. 5-8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	1.0	e.80	4.3	2.3	4.8	1.3	.31	.11	.36
2	---	---	---	1.0	e.90	6.4	2.3	3.9	1.2	.29	.10	.36
3	---	---	---	1.0	e.90	7.0	2.3	3.5	e1.1	.28	.09	.36
4	---	---	---	1.1	e.80	7.1	2.3	3.4	e1.1	.27	.08	.35
5	---	---	---	1.1	e.80	6.3	2.2	3.2	e1.0	.27	.06	.32
6	---	---	---	1.0	.92	6.5	2.2	3.1	e1.0	.25	.06	.32
7	---	---	---	1.2	1.4	7.7	2.1	3.0	e1.0	.24	.06	.38
8	---	---	---	.83	2.2	5.3	2.1	2.9	e.90	.23	.06	.28
9	---	---	---	.86	1.6	4.2	3.0	2.8	.89	.22	.08	.26
10	---	---	---	.90	1.5	3.8	2.8	2.6	.83	.19	.11	.26
11	---	---	---	1.1	1.4	3.8	2.6	2.5	.77	.17	.10	.26
12	---	---	---	1.0	1.4	3.6	2.5	2.4	.73	.17	1.7	.25
13	---	---	---	1.0	1.7	3.5	2.4	2.4	.71	.16	1.1	.24
14	---	---	---	1.0	1.4	3.4	2.4	2.3	.68	.15	.45	.25
15	---	---	---	1.0	1.5	3.2	2.3	2.1	.65	.14	.39	e.27
16	---	---	---	1.0	1.6	3.1	2.3	2.1	.62	.14	.33	.24
17	---	---	---	1.1	7.4	3.0	2.3	2.0	.64	.13	.31	.22
18	---	---	---	1.0	5.7	2.9	2.3	2.0	e.63	.17	.31	.20
19	---	---	---	.97	e5.0	3.6	2.3	1.9	e.60	.25	1.1	.20
20	---	---	---	.97	e4.0	4.8	2.3	1.8	e.70	.25	1.9	.27
21	---	---	1.33	.97	e4.0	3.3	2.3	1.8	.79	.20	2.0	.27
22	---	---	e1.33	.97	2.3	3.1	2.3	1.7	.62	.16	.53	.24
23	---	---	e1.33	.97	2.7	2.9	2.2	1.6	.55	.15	.43	.21
24	---	---	e1.33	.97	3.0	2.7	2.2	1.6	.49	.14	.39	.20
25	---	---	e1.37	1.0	3.9	3.0	2.3	1.6	.45	.14	.36	.20
26	---	---	e1.33	1.1	3.9	3.3	2.5	1.7	.42	.12	.35	.19
27	---	---	1.3	1.0	3.7	2.9	2.4	1.8	.40	e.18	.36	.18
28	---	---	1.2	1.0	3.4	2.6	5.2	1.5	.38	.10	.39	.18
29	---	---	1.2	1.0	---	2.4	14	1.4	.35	.10	.40	.20
30	---	---	1.1	1.2	---	2.4	6.6	1.3	.33	.15	.36	.39
31	---	---	1.1	1.1	---	2.3	---	1.5	---	.12	.35	---
TOTAL	---	---	---	31.41	69.82	124.4	89.3	72.2	21.83	5.84	14.42	7.91
MEAN	---	---	---	1.01	2.49	4.01	2.98	2.33	.73	.19	.47	.26
MAX	---	---	---	1.2	7.4	7.7	14	4.8	1.3	.31	2.0	.39
MIN	---	---	---	.83	.80	2.3	2.1	1.3	.33	.10	.06	.18
AC-FT	---	---	---	62	138	247	177	143	43	12	29	16

e Estimated

09406900 WET SANDY CREEK NEAR PINTURA, UT

LOCATION.--Lat. 37°19'15", long 113°21'05", in SE¼NW¼SE¼ sec. 7, T. 40 S., R. 13 W., Washington County, Hydrologic Unit 15010008, Dixie National Forest, on left bank about 100 ft upstream from unnamed diversion, 4.5 mi west of Pintura, Utah, and 5.0 mi upstream from mouth.

DRAINAGE.--5.29 mi².

PERIOD OF RECORD.--December 1993 to September 1994.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,240 ft above sea level, from topographic map.

REMARKS.--Records poor. No diversions upstream of station.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Feb. 1	0445	.50	a*4.39	No peaks greater than base discharge.			
Mar. 3	1700	b*6.6	4.36				

a Backwater from ice.
b From rating curve extended above 1.0 ft³\s.

Minimum daily discharge, 0.32 ft³/s, Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	.77	e.50	1.5	1.1	1.2	1.1	.79	.72	.46
2	---	---	---	.76	.54	2.0	1.2	1.2	1.0	.79	.71	.46
3	---	---	---	.76	.53	2.3	1.2	1.3	1.0	.75	.72	.47
4	---	---	---	.77	.55	2.2	1.1	1.4	1.0	.72	.71	.44
5	---	---	---	.76	.52	1.8	1.1	1.4	.99	.72	.70	.43
6	---	---	---	.71	.52	2.2	1.1	1.4	.98	.72	.69	.42
7	---	---	---	.69	.59	2.0	1.1	1.4	.98	.72	.70	.40
8	---	---	---	.74	.61	1.2	1.1	1.4	.98	.72	.65	.39
9	---	---	---	.74	.62	1.0	1.3	1.4	.96	.71	.64	.39
10	---	---	---	.75	.57	.97	1.2	1.3	.93	.70	.62	.40
11	---	---	---	.74	.56	.96	1.1	1.3	.91	.70	.59	.39
12	---	---	---	.74	e.50	.95	1.1	1.3	.90	.70	.61	.38
13	---	---	---	.73	e.50	.95	1.1	1.4	.90	.69	.61	.39
14	---	---	---	.70	.52	.99	1.1	1.3	.89	.69	.62	.39
15	---	---	---	.69	.52	1.0	1.2	1.3	.89	.68	.57	.40
16	---	---	.92	.68	.52	1.1	1.2	1.3	.89	.68	.55	.37
17	---	---	.86	.66	1.3	1.0	1.2	1.3	.89	.68	.54	.36
18	---	---	.85	.67	1.0	1.0	1.3	1.3	.89	.72	.55	.40
19	---	---	.83	.64	e.80	1.4	1.3	1.3	.88	.73	.69	.41
20	---	---	e.70	.63	e.80	1.5	1.4	1.3	.89	.71	.63	.50
21	---	---	e.70	.63	e.60	1.1	1.4	1.3	.95	.69	.62	.40
22	---	---	e.70	.63	e.60	1.1	1.4	1.2	.87	.67	.56	.37
23	---	---	e.70	.63	e.60	1.1	1.4	1.2	.85	.68	.55	.36
24	---	---	e.70	.63	e.60	1.1	1.4	1.2	.83	.68	.54	.35
25	---	---	.80	.66	.81	1.2	1.4	1.2	.83	.68	.53	.35
26	---	---	.76	.66	1.1	1.5	1.4	1.2	.82	.68	.53	.35
27	---	---	.76	.64	1.1	1.1	1.4	1.2	.81	.73	.53	.33
28	---	---	.76	.65	1.0	1.1	1.5	1.1	.80	.69	.52	.32
29	---	---	.73	.61	---	1.1	2.0	1.1	.80	.71	.48	.38
30	---	---	.80	.59	---	1.1	1.4	1.1	.79	.72	.48	.53
31	---	---	.78	e.60	---	1.1	---	1.1	---	.73	.48	---
TOTAL	---	---	---	21.26	18.98	40.62	38.2	39.4	27.20	21.98	18.64	11.99
MEAN	---	---	---	.69	.68	1.31	1.27	1.27	.91	.71	.60	.40
MAX	---	---	---	.77	1.3	2.3	2.0	1.4	1.1	.79	.72	.53
MIN	---	---	---	.59	.50	.95	1.1	1.1	.79	.67	.48	.32
AC-FT	---	---	---	42	38	81	76	78	54	44	37	24

e Estimated

09408000 LEEDS CREEK NEAR LEEDS, UT

LOCATION.--Lat 37°16'03", long 113°22'12", in SW¼SE¼NE¼ 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.

DRAINAGE AREA.--15.5 mi².

PERIOD OF RECORD.--October 1915 to June 1920 (fragmentary) in reports of Geological Survey; October 1964 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 4,000 ft above sea level, from topographic map. Prior to June 1920, at various sites and datums about 600 ft downstream; Oct. 28, 1964, to Aug. 20, 1967, water-stage recorder at site 1,000 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good except those for Oct. 6, which are poor. One diversion above station for domestic use.

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 PERIOD OF RECORD.--Maximum discharge, 4,420 ft³/s, Aug. 3, 1988, gage height, 9.41 ft, from rating curve extended above 29 ft³/s on basis of slope-area measurement; minimum daily discharge, 1.1 ft³/s, Sept. 17, 1972.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 6	1900	a*198	*3.80	No other peak greater than base discharge.			

(a) From rating curve extended above 50 ft³/s on basis of slope-area measurement at gage height 9.41 ft.

Minimum daily discharge, 3.1 ft³/s, Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	6.5	6.0	5.3	4.5	5.8	6.8	8.7	8.5	5.9	4.3	3.8
2	6.4	6.5	6.0	5.3	4.6	6.3	6.8	8.8	8.7	5.8	4.4	3.8
3	6.3	6.5	5.8	5.2	4.6	6.8	6.8	8.9	8.7	5.6	4.3	4.0
4	6.3	6.5	5.8	5.2	4.9	7.0	6.9	8.9	8.9	5.6	4.3	3.7
5	6.7	6.4	5.8	5.1	4.7	7.0	6.9	9.1	9.1	5.6	4.2	3.7
6	21	6.5	5.8	5.1	4.7	6.9	6.8	9.1	9.4	5.4	4.2	3.7
7	8.0	6.4	5.7	5.0	5.3	6.7	6.7	9.1	9.4	5.4	4.3	3.6
8	7.7	6.3	5.7	5.0	6.0	6.5	6.8	8.9	9.4	5.4	4.4	3.5
9	7.6	6.3	5.7	5.0	5.1	6.4	7.5	8.9	9.5	5.3	4.4	3.5
10	7.5	6.3	5.6	4.9	4.9	6.3	7.2	8.7	9.5	5.2	4.4	3.5
11	7.5	7.6	5.6	5.1	4.9	6.3	7.0	8.5	9.4	5.2	4.3	3.5
12	7.4	6.8	5.9	5.0	4.7	6.3	7.2	8.4	9.3	5.2	4.5	3.4
13	7.3	6.6	5.6	5.0	4.7	6.2	7.4	8.3	9.3	5.1	4.6	3.4
14	7.3	6.6	5.5	5.0	4.7	6.2	7.5	8.2	9.4	5.0	4.7	3.5
15	7.2	6.4	5.8	4.9	4.8	6.1	7.6	8.1	9.4	4.9	4.6	3.4
16	7.3	6.3	5.7	4.9	4.7	6.1	7.7	8.1	9.4	4.9	4.3	3.4
17	9.0	6.3	5.5	4.8	7.0	6.2	7.7	8.4	9.4	4.9	4.3	3.3
18	7.1	6.3	5.5	4.8	7.9	6.2	7.8	8.3	9.2	5.0	4.3	3.3
19	6.8	6.3	5.5	4.9	5.6	6.7	7.7	8.4	9.1	5.2	4.8	3.3
20	6.7	6.2	5.5	4.8	5.3	6.7	7.6	8.4	9.1	5.0	4.4	4.2
21	6.6	6.2	5.5	4.7	5.2	6.7	7.5	8.3	9.3	4.9	4.4	3.7
22	6.5	6.3	5.4	4.7	4.9	6.6	7.5	8.3	9.0	4.8	4.3	3.5
23	6.5	6.1	5.5	4.7	4.9	6.6	7.5	8.1	8.7	4.7	4.3	3.4
24	6.5	6.0	5.4	4.6	5.0	6.6	7.7	8.1	8.5	4.7	4.2	3.3
25	6.3	6.0	5.5	4.8	5.4	7.0	7.8	8.2	7.8	4.5	4.1	3.3
26	6.3	6.0	5.3	4.9	5.7	6.7	8.0	8.2	6.8	4.5	4.1	3.3
27	6.4	6.0	5.5	4.8	5.7	6.6	8.0	8.4	6.5	4.4	4.1	3.2
28	6.6	6.0	5.4	4.6	5.8	6.6	8.7	8.1	6.2	4.4	4.1	3.1
29	6.5	6.0	5.3	4.6	---	6.6	8.4	8.1	6.1	4.3	3.9	3.4
30	6.5	6.2	5.3	4.6	---	6.7	8.6	8.2	5.9	4.3	3.8	4.0
31	6.5	---	5.3	4.6	---	6.8	---	8.6	---	4.3	3.9	---
TOTAL	228.7	190.4	173.4	151.9	146.2	202.2	224.1	262.8	258.9	155.4	133.2	105.7
MEAN	7.38	6.35	5.59	4.90	5.22	6.52	7.47	8.48	8.63	5.01	4.30	3.52
MAX	21	7.6	6.0	5.3	7.9	7.0	8.7	9.1	9.5	5.9	4.8	4.2
MIN	6.3	6.0	5.3	4.6	4.5	5.8	6.7	8.1	5.9	4.3	3.8	3.1
AC-FT	454	378	344	301	290	401	445	521	514	308	264	210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1994, BY WATER YEAR (WY)

MEAN	4.00	4.10	4.74	4.59	6.74	9.29	9.80	10.9	13.7	10.6	7.22	4.67
MAX	9.16	10.7	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	1983
MIN	2.05	1.85	2.01	2.18	2.32	2.46	2.00	2.30	2.15	1.51	1.62	1.73
(WY)	1971	1978	1978	1991	1991	1977	1977	1977	1977	1977	1977	1972

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1965 - 1994	
ANNUAL TOTAL	6531.2		2232.9			
ANNUAL MEAN	17.9		6.12		7.53	
HIGHEST ANNUAL MEAN					18.1	1980
LOWEST ANNUAL MEAN					2.20	1977
HIGHEST DAILY MEAN	118	Feb 8	21	Oct 6	412	Dec 6 1966
LOWEST DAILY MEAN	3.8	Jan 1	3.1	Sep 28	1.1	Sep 17 1972
ANNUAL SEVEN-DAY MINIMUM	4.8	Jan 1	3.3	Sep 23	1.3	Jul 10 1977
ANNUAL RUNOFF (AC-FT)	12950		4430		5450	
10 PERCENT EXCEEDS	33		8.6		16	
50 PERCENT EXCEEDS	12		6.0		4.6	
90 PERCENT EXCEEDS	5.7		4.2		2.4	

09408150 VIRGIN RIVER NEAR HURRICANE, UT

LOCATION.--Lat 37°10'20", long 113°23'07", in NE¼SE¼SE¼ sec. 35, T. 41 S., R. 14 W., Washington County, Hydrologic Unit 15010008, Bureau of Land Management, on right bank, 0.6 mi downstream (revised) from Quail Creek Reservoir Dam, 1.2 mi upstream from State Highway 9, and 5.2 mi west of Hurricane.

DRAINAGE AREA.--1,493 mi² (revised).

PERIOD OF RECORD.--March 1967 to Febuary 1989, October 1990 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,800 ft above sea level, from topographic map. Prior to Mar. 30, 1993 at different sites and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Since June 1985, flow diverted about 14 mi upstream into a pipeline (capacity approximately 250 ft³/s), feeding Quail Creek Reservoir (capacity 40,000 acre-feet), an offstream site located about 0.6 mi upstream from the gage. Flows also subject to releases from Quail Creek Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 66,000 ft³/s, Jan. 1, 1989, result of Quail Creek reservoir dike failure; minimum daily discharge, 23 ft³/s, Dec. 11, 1986, at site 1.2 mi downstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1909, 17.34 ft Dec. 6, 1966, from flood-marks; discharge, 20,100 ft³/s, site and datum then in use, from slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 2,100 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 6	2150	a*5,000	*12.55	Sept. 3	0805	a3,850	10.73

a From rating curve extended above 1,900 ft³/s on basis of slope-area measurement at gage height 12.55 ft.

Minimum daily discharge, 62 ft³/s, Jul. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	110	316	218	125	195	109	271	111	76	64	95
2	102	116	339	217	129	201	114	270	108	72	64	93
3	102	e114	303	198	131	214	113	240	108	71	66	558
4	122	e124	297	183	133	222	125	223	111	69	70	172
5	135	e114	301	183	129	233	125	235	107	69	75	113
6	574	e119	299	184	129	221	133	251	85	74	72	102
7	762	113	304	182	132	217	134	253	78	74	69	94
8	157	127	298	181	186	215	132	220	74	78	72	93
9	163	119	302	186	195	204	224	203	73	72	74	85
10	161	115	299	176	149	195	259	187	78	70	74	82
11	163	e135	297	164	147	184	172	184	89	72	72	91
12	231	310	325	162	151	177	155	198	79	67	66	81
13	180	253	271	163	144	173	155	215	85	71	124	71
14	158	182	202	163	155	175	175	261	84	66	93	76
15	146	170	206	163	164	179	217	249	86	62	82	86
16	137	160	209	163	164	179	217	246	91	64	84	79
17	152	178	207	150	204	185	240	205	89	67	85	88
18	171	187	207	131	702	181	262	183	88	69	164	90
19	158	179	209	116	235	217	242	170	96	86	127	86
20	127	174	213	104	193	329	254	163	92	76	117	86
21	118	177	215	104	176	179	262	158	89	84	121	92
22	117	196	214	102	184	128	269	158	90	94	121	89
23	115	206	216	104	178	123	272	134	81	80	83	85
24	120	208	213	104	178	117	224	105	79	76	72	83
25	120	212	216	105	188	164	209	106	85	69	81	80
26	111	206	221	124	202	314	231	117	83	77	83	77
27	111	214	228	107	197	189	262	423	83	73	92	78
28	111	218	227	105	196	122	424	153	82	65	96	70
29	109	234	223	107	---	114	379	109	83	67	100	81
30	110	241	217	106	---	107	289	108	75	73	105	104
31	113	---	217	115	---	105	---	109	---	64	103	---
TOTAL	5271	5211	7811	4570	5196	5758	6378	6107	2642	2247	2771	3160
MEAN	170	174	252	147	186	186	213	197	88.1	72.5	89.4	105
MAX	762	310	339	218	702	329	424	423	111	94	164	558
MIN	102	110	202	102	125	105	109	105	73	62	64	70
AC-FT	10460	10340	15490	9060	10310	11420	12650	12110	5240	4460	5500	6270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968-88, 1991-94, BY WATER YEAR (WY)

MEAN	122	148	172	217	261	347	446	520	197	115	129	120
MAX	304	280	440	662	1200	1178	1230	1657	869	248	316	268
(WY)	1987	1988	1972	1989	1980	1978	1993	1983	1983	1983	1983	1980
MIN	54.2	56.4	51.4	58.9	59.8	92.8	62.5	72.3	58.6	46.4	71.0	56.8
(WY)	1991	1991	1987	1991	1991	1977	1977	1972	1974	1972	1978	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1968-88, 1991-94	
ANNUAL TOTAL	177663		57122			
ANNUAL MEAN	487		156		232	
HIGHEST ANNUAL MEAN					515	1980
LOWEST ANNUAL MEAN					72.2	1991
HIGHEST DAILY MEAN	3240	Feb 20	762	Oct 7	13200	Jan 1 1989
LOWEST DAILY MEAN	73	Aug 1	62	Jul 15	23	Dec 11 1986
ANNUAL SEVEN-DAY MINIMUM	76	Jul 27	66	Jul 28	31	Dec 8 1986
ANNUAL RUNOFF (AC-FT)	352400		113300		168200	
10 PERCENT EXCEEDS	1310		252		440	
50 PERCENT EXCEEDS	226		132		141	
90 PERCENT EXCEEDS	110		74		65	

e Estimated

09408175 ST. GEORGE-WASHINGTON CANAL NEAR WASHINGTON, UT

LOCATION.--Lat 37°06'54", long 113°26'18", in NE¼SE¼SE¼ 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, Utah.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Parshall flume since Nov. 8, 1991. Elevation of gage is 2,680 ft above sea level, from topographic map. Prior to Nov. 8, 1991 at site 150 ft downstream at same datum. Water-quality monitoring equipment located about 150 ft downstream.

REMARKS.--Records good except those for flows below 10 ft³/s and 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	77	64	47	50	50	88	51	93	78	69	e93
2	89	77	65	47	51	52	97	.00	96	75	69	e93
3	87	77	64	37	51	52	99	44	106	75	70	99
4	89	77	64	5.6	50	53	112	86	109	74	73	e94
5	86	70	64	.00	50	53	110	87	109	73	80	e94
6	79	65	64	.00	49	53	107	88	89	77	77	e93
7	57	66	64	11	49	52	101	89	80	81	74	e93
8	37	66	64	21	48	52	102	34	78	79	77	e93
9	39	66	63	21	47	55	99	3.0	75	78	81	e94
10	59	66	63	29	47	75	73	67	78	71	80	e93
11	59	66	63	37	46	84	64	101	93	78	77	e90
12	61	71	61	37	47	85	62	104	80	72	68	e89
13	60	66	60	37	47	67	71	113	86	75	100	86
14	58	60	55	37	47	.00	82	111	85	72	78	74
15	58	60	53	37	47	.00	88	102	86	67	89	76
16	57	59	53	37	47	.00	91	107	91	70	87	87
17	58	60	53	37	47	71	92	107	91	71	88	85
18	59	61	52	42	47	96	93	105	90	72	101	86
19	62	60	52	47	47	97	93	103	96	62	100	86
20	86	60	52	48	47	95	93	102	95	69	e95	83
21	92	60	49	48	47	79	94	102	93	86	e93	81
22	94	61	49	48	47	73	94	102	95	101	82	80
23	92	61	48	49	47	73	95	98	84	89	73	79
24	83	61	48	49	48	72	93	89	81	84	67	79
25	78	61	48	49	49	74	89	90	85	74	76	79
26	77	61	48	49	50	87	75	92	84	80	78	78
27	77	61	42	49	50	79	77	57	83	77	88	78
28	77	61	12	49	50	73	78	48	84	70	e91	78
29	77	62	47	49	---	72	72	78	84	72	e92	77
30	77	63	47	49	---	71	69	76	78	75	e93	77
31	77	---	47	50	---	80	---	85	---	70	e94	---
TOTAL	2236	1942	1678	1152.60	1349	1975.00	2653	2521.00	2657	2347	2560	2567
MEAN	72.1	64.7	54.1	37.2	48.2	63.7	88.4	81.3	88.6	75.7	82.6	85.6
MAX	95	77	65	50	51	97	112	113	109	101	101	99
MIN	37	59	12	.00	46	.00	62	.00	75	62	67	74
AC-FT	4440	3850	3330	2290	2680	3920	5260	5000	5270	4660	5080	5090

CAL YR 1993 TOTAL 24617.60 MEAN 67.4 MAX 108 MIN .00 AC-FT 48830
WTR YR 1994 TOTAL 25637.60 MEAN 70.2 MAX 113 MIN .00 AC-FT 50850

e Estimated

09408175 ST. GEORGE-WASHINGTON CANAL NEAR WASHINGTON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: December 1987 to current year.
WATER TEMPERATURES: December 1987 to current year.

REMARKS.--Records are fair.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 5,330 microsiemens, July 19, 1990; minimum, 510 microsiemens, May 4, 15, 1993.
WATER TEMPERATURES: Maximum, 32.7°C, July 15, 1988; minimum, 0.0°C, Dec. 21, 1990.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 3,230 microsiemens, July 29; minimum recorded, 980 microsiemens, Apr. 28.
WATER TEMPERATURES: Maximum recorded, 28.6°C, June 10, 11; minimum recorded, 2.2°C, Dec. 24.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2690	2400	2560	2140	1950	2030	1570	1260	1400	1640	1430	1490
2	2640	2340	2500	2320	1980	2050	1550	1260	1330	1510	1430	1470
3	2740	2610	2670	2350	1950	2030	1510	1280	1390	1620	1410	1480
4	3010	2300	2630	2220	1970	2040	1490	1290	1360	---	---	---
5	2400	2300	2360	2010	1880	1930	1510	1370	1410	---	---	---
6	2750	1830	2330	2040	1960	2000	1490	1270	1390	---	---	---
7	2470	1690	2060	1980	1890	1940	1510	1290	1380	---	---	---
8	---	---	---	2210	1850	1930	1480	1240	1370	---	---	---
9	---	---	---	1880	1740	1800	1490	1350	1380	---	---	---
10	1900	1860	1880	2010	1630	1840	1420	1310	1360	---	---	---
11	1880	1830	1860	1990	1800	1860	1420	1310	1380	---	---	---
12	1910	1520	1670	---	---	---	1580	1190	1400	---	---	---
13	1780	1570	1690	---	---	---	1500	1190	1320	---	---	---
14	1840	1770	1810	---	---	---	1720	1400	1550	---	---	---
15	1910	1830	1870	---	---	---	2060	1510	1660	---	---	---
16	2010	1910	1970	---	---	---	1900	1530	1630	---	---	---
17	1970	1820	1920	---	---	---	1680	1490	1570	---	---	---
18	1880	1700	1760	---	---	---	1690	1500	1580	---	---	---
19	1930	1680	1790	---	---	---	1960	1530	1640	---	---	---
20	2130	1660	1930	---	---	---	1990	1520	1620	---	---	---
21	2250	1950	2090	---	---	---	1610	1510	1560	---	---	---
22	2410	2000	2130	---	---	---	1660	1500	1590	---	---	---
23	2280	2070	2100	---	---	---	1990	1450	1600	---	---	---
24	2320	2000	2120	---	---	---	1660	1530	1580	---	---	---
25	2040	1990	2020	---	---	---	1680	1530	1580	---	---	---
26	2080	1970	2030	2030	1680	---	1690	1500	1570	---	---	---
27	2230	2070	2110	1990	1610	1690	1820	1390	1540	---	---	---
28	2300	2060	2100	2200	1570	1730	---	---	---	---	---	---
29	2150	2040	2080	1750	1440	1590	1480	1430	1460	---	---	---
30	2260	2040	2100	1640	1360	1520	1470	1440	1460	---	---	---
31	2270	2040	2090	---	---	---	1590	1450	1490	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	1640	1500	1540	2390	2150	2230	1520	1310	---
2	---	---	---	1730	1410	1510	2530	2020	2170	---	---	---
3	---	---	---	1600	1330	1440	2400	1960	2140	1550	1440	---
4	---	---	---	1560	1310	1390	2570	1890	2080	1570	1420	1500
5	---	---	---	1490	1260	1360	2280	1830	1960	1800	1320	1550
6	---	---	---	1440	1260	1340	1990	1740	1850	1680	1300	1430
7	---	---	---	1490	1320	1380	1970	1870	1920	1550	1240	1360
8	---	---	---	1560	1320	1440	1920	1870	1910	---	1280	---
9	---	---	---	1580	1350	1450	2330	1240	1850	---	---	---
10	---	---	---	1670	1430	1530	1340	1010	1150	1670	---	---
11	---	---	---	1770	1510	1580	1640	1340	1540	1750	1550	1630
12	---	---	---	1860	1520	1620	2120	1590	1730	1810	1550	1660
13	---	---	---	1710	1580	1630	2120	1580	1730	1950	1360	1570
14	---	---	---	---	---	---	2050	1450	1760	1640	1220	1390
15	---	---	---	---	---	---	1750	1260	1480	1570	1200	1330
16	---	---	---	---	---	---	1810	1260	1420	1550	1190	1310
17	---	---	---	---	---	---	1970	1120	1360	1500	1270	1420
18	---	---	---	1760	1530	1630	1680	1110	1270	1570	1420	1510
19	---	---	---	1690	1550	1610	1540	1170	1310	1880	1520	1640
20	---	---	---	---	---	---	1740	1170	1320	1850	1580	1700
21	---	---	---	1760	1210	1460	1580	1130	1270	1860	1710	1790
22	---	---	---	2020	1750	1850	1640	1100	1250	1870	1780	1840
23	---	---	---	2350	1920	2030	1560	1080	1220	2300	1830	1920
24	1870	---	---	2120	1980	2040	1390	1160	1310	2360	2250	2310
25	2180	1690	1800	2520	2010	2120	1480	1390	1430	2350	2270	2320
26	2230	1560	1710	2870	1150	1390	1750	1240	1480	2740	2250	2350
27	1680	1500	1580	1470	1310	1400	1440	1240	1310	2980	2050	---
28	1680	1540	1600	2860	1370	1910	1380	980	1170	---	---	---
29	---	---	---	2240	2040	2140	1190	1010	1050	---	---	---
30	---	---	---	2430	2000	2210	1370	1190	1290	---	---	---
31	---	---	---	2260	2190	2240	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	2570	980	1570	---	---	---

09408175 ST. GEORGE-WASHINGTON CANAL NEAR WASHINGTON, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	2800	2500	2620	2830	2650	2720	2500	2290	2400
2	---	---	---	2690	2390	2560	2770	2680	2730	2870	2230	2580
3	---	---	---	2700	2560	2620	2810	2620	2690	---	---	---
4	---	---	---	2720	2590	2650	2880	2310	2650	2570	1690	2160
5	---	---	---	2740	2550	2640	2460	2290	2390	2180	2050	2160
6	---	---	---	2820	2620	2660	2560	2320	2410	2440	1980	2290
7	---	---	---	3040	2220	2540	2620	2350	2480	2510	2040	2360
8	---	---	---	2720	2310	2530	2840	2430	2620	2570	2480	2530
9	---	---	---	2500	2310	2410	2690	2190	2420	2530	2270	2440
10	---	---	---	2890	2380	2620	2460	2170	2410	2790	2510	2670
11	---	---	---	2880	2480	2630	2430	2210	2350	2900	2440	2680
12	---	---	---	2760	2450	2590	2460	2100	2380	2920	2280	2500
13	---	---	---	2910	2560	2730	---	---	---	2930	2610	2750
14	2830	---	---	2680	2470	2590	2150	1840	2020	2910	2710	2760
15	2920	2710	2770	2910	2590	2770	2360	2020	2160	2940	2450	2720
16	2920	2450	2650	3110	2690	2850	2420	2160	2310	2750	2240	2450
17	2680	2490	2570	2990	2580	2750	2460	2220	2310	2880	2330	2650
18	2750	2580	2650	2790	2630	2680	---	---	---	2480	2290	2410
19	3000	2520	2670	---	---	---	---	---	---	2700	2290	2430
20	2660	2280	2490	2570	---	---	---	---	---	2660	2410	2520
21	2860	2370	2610	2650	2400	2510	---	---	---	3010	2260	2490
22	2680	2400	2520	2790	1930	2410	---	---	---	2490	2240	2340
23	2720	2360	2530	2580	2370	2430	2790	---	---	2500	2380	2450
24	2780	2580	2660	2590	2330	2440	3010	2660	2750	2650	2340	2500
25	3090	2640	2730	2670	2340	2470	2880	2640	2740	2740	2430	2550
26	3090	2410	2590	2860	2400	2590	2870	2620	2740	2860	2490	2670
27	2750	2490	2590	2660	2230	2440	3170	2490	2750	2950	2530	2660
28	2720	2460	2550	2540	2310	2450	2700	2390	2530	2790	2560	2650
29	2790	2370	2580	3230	2210	2630	2560	2120	2460	3130	2520	2810
30	2570	2270	2430	3130	2260	2720	2730	2290	2460	3140	2240	2570
31	---	---	---	3090	2140	2420	2730	2250	2340	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.4	15.6	18.8	14.2	9.7	11.6	9.7	6.7	7.9	8.2	5.8	6.7
2	22.4	15.6	18.9	13.3	8.6	10.5	9.7	7.2	8.1	8.4	5.4	6.6
3	22.8	15.9	19.2	14.1	9.0	11.1	9.6	6.9	7.9	10.2	5.4	7.6
4	22.8	16.0	19.3	14.3	9.2	11.4	9.4	6.7	7.7	---	---	---
5	20.0	17.4	18.8	12.4	8.3	10.4	9.1	6.4	7.4	---	---	---
6	19.0	13.6	17.8	12.1	6.9	9.1	9.4	6.8	7.7	---	---	---
7	16.7	12.2	14.4	12.1	7.4	9.3	9.2	6.8	7.7	7.7	5.0	---
8	17.3	10.9	14.4	11.7	7.4	9.2	9.1	6.6	7.6	7.6	4.5	5.7
9	18.2	11.5	14.5	12.1	7.3	9.4	9.4	6.9	7.9	6.8	4.2	5.3
10	19.8	13.4	16.6	11.4	8.5	9.8	9.5	6.7	7.8	8.1	4.8	6.1
11	18.6	14.8	16.9	11.2	10.2	10.7	9.7	7.0	8.3	7.9	4.6	6.1
12	19.7	14.7	17.2	11.6	9.2	10.2	9.7	3.3	7.1	8.7	5.1	6.6
13	19.2	14.2	16.7	11.6	8.4	9.8	8.8	6.4	7.4	9.1	5.2	6.9
14	19.5	14.3	16.9	9.7	7.6	8.9	8.5	5.5	6.8	9.7	6.1	7.7
15	19.2	14.3	16.7	10.5	6.8	8.4	7.4	6.3	6.9	10.0	6.9	8.2
16	17.1	14.3	15.9	11.5	7.5	9.2	9.2	6.4	7.5	9.7	6.2	7.7
17	18.0	14.7	16.1	12.5	8.5	10.0	8.0	5.6	6.7	9.3	5.3	7.2
18	16.3	13.2	14.8	12.4	9.0	10.4	7.3	4.7	5.9	10.0	5.8	7.7
19	17.7	11.8	14.3	10.4	7.7	9.0	7.3	4.6	5.8	10.3	6.1	8.1
20	17.3	11.9	14.3	10.1	6.5	8.0	6.0	3.2	4.5	10.9	6.7	8.8
21	17.0	12.5	14.5	9.5	6.6	8.0	5.9	3.1	4.2	11.0	6.9	8.9
22	18.1	13.0	15.2	11.3	8.6	10.0	5.4	3.0	3.9	11.0	7.5	9.2
23	18.1	12.9	15.1	12.4	9.3	10.6	4.9	2.6	3.7	9.6	7.2	8.4
24	18.2	12.9	15.2	9.8	5.9	8.2	5.6	2.2	3.6	11.7	7.3	9.4
25	18.1	13.4	15.3	8.3	3.8	5.8	6.1	3.3	4.3	10.2	8.9	9.5
26	14.7	10.9	12.8	6.7	2.9	4.4	6.2	4.1	5.1	10.5	8.7	9.6
27	15.3	9.6	12.0	6.5	3.5	4.7	7.5	5.8	6.6	10.7	7.9	9.3
28	14.8	10.8	12.6	8.2	4.7	6.3	8.1	---	---	10.9	7.6	9.1
29	15.4	10.8	12.8	9.2	5.6	7.2	8.0	5.3	6.4	10.9	6.7	8.8
30	14.2	8.9	11.1	8.2	7.0	7.6	7.5	4.8	6.0	9.6	6.1	8.0
31	13.1	9.5	11.1	---	---	---	8.0	5.0	6.3	7.8	3.8	5.6
MONTH	22.8	8.9	15.5	14.3	2.9	9.0	9.7	---	---	---	---	---

09408175 ST. GEORGE-WASHINGTON CANAL NEAR WASHINGTON, UT--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.7	2.6	4.7	13.5	8.5	10.7	18.4	12.7	15.2	19.1	14.2	---
2	8.9	4.4	6.2	14.3	9.5	11.6	19.3	11.6	15.2	---	---	---
3	9.6	6.4	7.6	14.9	10.0	12.3	18.7	13.4	15.7	20.5	---	---
4	8.2	7.6	7.9	14.7	10.3	12.4	17.7	12.2	14.4	22.1	15.7	18.6
5	11.4	7.7	9.2	13.9	10.3	12.1	17.9	9.9	13.4	21.6	16.7	19.1
6	11.7	8.8	10.0	15.0	10.6	12.5	16.5	12.0	14.1	21.2	16.6	18.7
7	10.2	9.6	9.8	13.7	10.3	11.9	18.2	12.9	15.1	19.5	15.5	17.2
8	11.1	9.3	10.0	14.7	9.8	12.1	14.7	12.8	13.6	---	14.4	---
9	11.2	7.3	9.1	14.5	9.5	11.8	15.5	12.3	13.6	---	---	---
10	12.4	7.7	9.8	14.6	10.1	12.2	15.0	11.0	12.9	20.9	15.3	17.7
11	10.6	6.9	9.6	14.3	11.2	12.5	17.5	10.8	13.8	20.0	16.0	18.0
12	9.1	4.7	6.8	13.7	10.2	11.6	19.4	12.2	15.5	22.7	15.8	18.9
13	9.9	4.8	7.1	15.7	9.7	12.6	20.1	13.3	16.4	22.4	18.6	20.3
14	11.3	6.6	8.5	---	---	---	19.7	13.9	16.7	22.9	17.3	19.9
15	10.7	6.6	8.5	---	---	---	20.0	13.3	16.6	22.0	17.8	19.8
16	10.8	8.1	9.4	---	---	---	21.1	13.9	17.4	19.5	15.9	17.9
17	10.3	9.8	10.1	16.1	12.3	14.0	20.2	15.2	17.6	18.0	14.7	16.0
18	9.9	6.4	7.4	15.3	12.3	13.5	18.8	15.5	17.1	19.5	14.7	16.5
19	9.0	6.7	7.5	13.4	12.6	13.0	21.5	15.2	18.1	20.8	14.5	17.2
20	7.4	6.8	7.1	16.0	11.1	13.3	21.8	15.9	18.8	23.6	14.6	18.0
21	10.4	6.7	8.2	17.9	11.3	14.3	21.7	16.2	18.8	21.8	14.3	17.8
22	10.7	6.7	8.3	16.1	11.7	14.0	20.4	16.0	18.1	22.2	15.4	18.5
23	10.3	5.5	7.5	14.5	10.1	12.1	17.8	14.8	16.2	23.6	15.7	19.5
24	11.3	6.2	8.4	14.4	10.7	12.4	14.8	12.0	13.5	23.7	18.0	20.7
25	12.8	7.5	9.8	12.5	11.1	11.5	13.5	10.9	12.2	21.7	18.3	20.0
26	13.0	8.8	10.8	14.8	9.9	12.0	14.4	11.1	12.5	25.7	17.7	21.2
27	12.3	9.9	11.0	15.0	10.5	12.4	13.9	11.2	12.3	---	17.8	---
28	13.0	9.0	10.6	16.6	9.6	12.7	14.4	11.2	12.6	25.6	---	---
29	---	---	---	18.1	11.1	14.2	16.5	11.0	13.5	26.6	18.0	21.9
30	---	---	---	17.5	11.6	14.3	18.0	12.3	15.0	27.2	18.6	22.6
31	---	---	---	19.0	11.6	15.0	---	---	---	25.9	20.6	23.1
MONTH	13.0	2.6	8.6	---	---	---	21.8	9.9	15.2	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	27.4	19.1	23.0	26.9	20.2	23.5	28.0	19.1	23.1	24.8	17.5	20.8
2	27.8	19.7	23.6	27.1	19.7	23.2	27.5	18.5	22.8	24.7	17.0	20.5
3	25.7	19.9	22.8	26.7	17.7	22.0	26.9	17.3	22.0	24.8	17.7	21.5
4	26.0	18.3	21.8	25.8	17.2	21.5	26.8	17.3	21.9	24.3	17.0	20.7
5	26.0	18.0	21.8	26.3	17.4	21.7	25.6	16.8	21.1	24.5	16.3	20.5
6	24.0	18.6	21.2	26.1	17.2	21.4	25.8	17.0	21.2	24.7	18.2	21.5
7	25.4	17.5	21.3	26.4	16.4	20.9	25.2	17.6	21.1	25.1	17.7	21.2
8	26.8	18.0	22.2	27.8	17.3	22.3	22.4	18.3	20.4	24.9	17.9	21.3
9	27.8	18.9	23.3	27.8	18.7	23.2	27.6	18.7	22.4	23.0	17.9	20.6
10	28.6	20.4	24.5	27.3	18.2	22.7	26.6	19.8	22.9	21.1	16.1	18.6
11	28.6	20.4	24.5	27.6	18.2	22.6	26.5	18.5	22.4	23.0	16.4	19.4
12	28.1	20.5	24.4	27.0	17.7	22.2	27.7	19.6	23.2	21.9	16.4	18.9
13	26.8	20.2	23.4	27.0	18.0	22.3	27.4	19.4	23.1	20.4	14.0	16.7
14	25.6	19.8	22.5	27.4	18.2	22.5	27.4	20.2	23.6	21.1	12.5	16.4
15	24.8	19.0	21.5	27.3	17.6	22.3	27.9	20.2	23.7	22.1	13.9	17.6
16	26.0	18.5	21.7	27.1	17.6	22.3	27.5	19.7	23.5	22.0	14.2	18.0
17	25.8	16.6	20.9	25.0	17.8	21.6	27.2	19.9	23.3	21.8	15.4	18.5
18	26.2	17.8	21.7	26.1	18.9	---	27.0	19.3	23.4	21.3	15.2	18.2
19	26.9	18.1	22.3	---	---	---	24.3	19.1	21.7	21.1	16.6	18.7
20	24.2	18.4	21.6	27.8	---	---	---	19.4	---	23.5	16.6	19.5
21	28.2	19.7	23.3	28.5	20.4	24.3	25.3	18.8	22.0	23.3	16.3	19.7
22	28.1	20.1	23.9	28.2	21.7	24.9	26.6	19.2	22.6	23.3	16.3	19.7
23	27.8	19.5	23.7	26.1	21.1	23.8	27.5	20.7	23.4	22.7	15.5	19.0
24	27.9	19.1	23.4	28.0	20.2	23.7	27.0	19.2	23.1	21.6	15.7	18.7
25	27.6	19.6	23.5	28.3	20.1	24.1	25.7	17.2	21.3	23.2	16.4	19.5
26	26.5	19.1	22.7	26.5	19.4	22.9	25.7	17.1	21.1	23.3	16.6	19.8
27	27.1	19.0	22.8	27.9	19.5	23.5	26.5	19.0	22.4	22.8	15.7	19.1
28	27.4	19.3	23.2	25.9	20.1	22.7	27.1	19.5	23.0	22.2	15.2	18.7
29	27.9	19.6	23.7	27.7	19.2	23.1	26.4	19.1	22.5	21.0	18.0	19.3
30	27.6	19.4	23.4	27.6	19.6	23.5	25.5	18.1	21.7	21.9	15.6	18.5
31	---	---	---	27.1	19.9	23.4	23.7	17.9	20.8	---	---	---
MONTH	28.6	16.6	22.8	---	---	---	---	16.8	---	25.1	12.5	19.4

09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT

LOCATION.--Lat 37°23'00", long 113°28'57", in NW¼SE¼NE¼ sec. 24, T. 39 S., R. 15 W., Washington County, Hydrologic Unit 15010008, in 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 sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow slightly regulated by Pine Valley Reservoir. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 776 ft³/s, Dec. 6, 1966, gage height, 6.85 ft; minimum daily discharge, 0.51 ft³/s, Feb. 15, 1990.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 15	2200	*36	*2.14				

Minimum daily discharge, 2.0 ft³/s, Sept. 27, 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	4.4	3.8	e3.0	e3.0	e4.2	8.2	13	18	5.0	3.5	2.7
2	4.8	4.3	3.9	e3.0	e3.0	e4.2	8.3	13	16	4.9	3.4	2.7
3	4.8	4.3	3.9	e3.0	e3.0	e4.8	9.1	14	15	4.8	3.3	2.7
4	4.7	4.3	3.8	e3.0	e3.2	e5.2	9.1	17	14	4.7	3.3	2.6
5	5.1	4.1	3.8	e3.2	e3.2	e5.6	8.5	22	13	4.6	3.2	2.6
6	7.8	4.1	3.8	e3.2	e3.4	e6.6	8.1	25	12	4.6	3.2	2.4
7	6.9	4.1	3.7	e3.2	e3.4	e6.6	7.7	23	11	4.5	3.2	2.4
8	5.4	4.1	3.7	e3.0	e3.4	e6.6	7.7	20	11	4.5	3.2	2.3
9	5.1	4.1	3.7	e3.0	e3.2	e6.4	8.2	18	9.9	4.4	3.3	2.3
10	4.9	4.1	3.6	e3.0	e3.2	e6.4	7.7	18	9.5	4.3	3.3	2.2
11	5.1	5.0	3.6	e3.0	e3.2	e6.6	7.6	20	9.1	4.3	3.2	2.3
12	5.0	4.5	3.9	e3.0	e3.2	e6.8	8.1	22	8.7	4.2	3.4	2.3
13	4.9	4.4	3.7	e3.2	e3.2	e7.4	9.1	26	8.4	4.1	3.9	2.2
14	4.8	4.3	3.6	e3.2	e3.2	e7.8	11	30	8.2	4.1	3.6	2.2
15	4.8	4.2	3.7	e3.2	e3.2	e8.0	13	30	7.9	4.0	3.6	2.2
16	4.8	4.1	3.6	e3.2	e3.2	e8.2	15	28	7.6	4.0	3.3	2.2
17	5.0	4.3	e3.6	e3.0	e3.4	8.3	18	23	7.4	3.9	3.2	2.2
18	5.5	4.2	e3.6	e3.0	e3.8	8.4	20	19	7.2	4.7	3.0	2.2
19	5.4	4.1	e3.6	e3.0	e4.4	9.2	21	18	7.0	4.8	3.9	2.2
20	5.1	4.1	e3.6	e3.0	e4.2	9.4	23	16	6.9	4.3	3.4	2.8
21	4.9	4.1	e3.5	e3.0	e4.0	8.8	27	15	7.2	4.2	4.1	2.5
22	4.8	4.3	e3.5	e3.2	e3.6	8.1	30	15	6.9	4.1	3.4	2.3
23	4.8	4.4	e3.4	e3.2	e3.6	7.5	28	14	6.4	4.0	3.1	2.3
24	4.7	4.2	e3.4	e3.2	e3.6	6.6	22	15	6.1	4.0	3.0	2.2
25	4.6	3.9	e3.2	e3.2	e4.0	6.6	17	15	5.9	3.9	3.0	2.1
26	4.6	4.2	e3.2	e3.4	e4.2	6.5	15	16	5.7	3.8	2.9	2.1
27	4.6	4.3	e3.2	e3.4	e4.4	6.2	13	21	5.5	3.7	2.9	2.0
28	4.6	4.0	e3.2	e3.4	e4.2	6.1	13	20	5.4	3.7	2.9	2.0
29	4.5	3.9	e3.2	e3.2	---	6.0	13	19	5.3	3.6	2.8	2.2
30	4.4	3.9	e3.2	e3.0	---	6.2	12	18	5.1	3.7	2.7	2.5
31	4.4	---	e3.0	e3.0	---	6.6	---	21	---	3.6	2.7	---
TOTAL	155.7	126.3	110.2	96.6	98.6	211.9	418.4	604	267.3	131.0	100.9	69.9
MEAN	5.02	4.21	3.55	3.12	3.52	6.84	13.9	19.5	8.91	4.23	3.25	2.33
MAX	7.8	5.0	3.9	3.4	4.4	9.4	30	30	18	5.0	4.1	2.8
MIN	4.4	3.9	3.0	3.0	3.0	4.2	7.6	13	5.1	3.6	2.7	2.0
AC-FT	309	251	219	192	196	420	830	1200	530	260	200	139

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1994, BY WATER YEAR (WY)

MEAN	3.55	3.89	3.85	2.76	3.20	6.14	17.6	34.5	24.6	10.1	5.77	3.87
MAX	12.5	21.4	30.3	5.08	7.67	15.8	43.4	122	126	47.9	23.2	12.1
(WY)	1973	1988	1967	1979	1960	1993	1969	1973	1983	1983	1983	1983
MIN	.84	.95	1.02	1.10	.68	1.20	1.66	5.03	2.63	1.21	1.07	1.02
(WY)	1978	1978	1978	1990	1990	1977	1977	1989	1963	1963	1960	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1960 - 1994	
ANNUAL TOTAL	7302.8		2390.8			
ANNUAL MEAN	20.0		6.55		10.0	
HIGHEST ANNUAL MEAN					29.4	1983
LOWEST ANNUAL MEAN					2.30	1977
HIGHEST DAILY MEAN	149	May 17	30	Apr 22	397	Dec 6 1966
LOWEST DAILY MEAN	1.3	Feb 15	2.0	Sep 27	.51	Feb 15 1990
ANNUAL SEVEN-DAY MINIMUM	1.5	Feb 11	2.1	Sep 23	.55	Feb 13 1990
ANNUAL RUNOFF (AC-FT)	14490		4740		7250	
10 PERCENT EXCEEDS	53		15		23	
50 PERCENT EXCEEDS	7.8		4.2		4.0	
90 PERCENT EXCEEDS	2.2		3.0		1.6	

e Estimated

09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UT
(Transmountain diversion)

LOCATION.--Lat 37°28'04", long 113°28'21", in $SW^1/_4SE^1/_4NW^1/_4$ sec. 19, T. 38 S., R. 14 W., Washington County, Hydrologic Unit 15010008, on right bank 0.2 mi downstream from outlet of diversion tunnel and 6 mi southeast of Pinto.

PERIOD OF RECORD.--October 1953 to September 1962 (monthly discharge only, October 1953 to September 1960), October 1969 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,820 ft above sea level, from topographic map. Prior to September 1962, at site 600 ft upstream at different datum. Prior to October 1990, at same location at datum 3.0 ft higher.

REMARKS.--No estimated daily discharges. Records good except those for flows below 1.0 ft^3/s, which are poor. Flow at this station is seasonal occurring during the snowmelt period and heavy storm periods. This is a transmountain diversion from a tributary of Santa Clara River in Colorado River Basin to Pinto Creek in Escalante Valley in the Great Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 229 ft^3/s, May 24, 1983, gage height, 5.58 ft present datum; no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29 ft^3/s, Mar.4, gage height, 4.79 ft; no flow for extended periods during year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	1.5	7.9	5.5	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	3.1	8.4	4.9	.00	.00	.00
3	.00	.00	.00	.00	.00	.57	4.4	8.7	4.3	.00	.00	.00
4	.00	.00	.00	.00	.00	12	5.5	10	3.9	.00	.00	.00
5	.00	.00	.00	.00	.00	3.1	4.8	13	3.6	.00	.00	.00
6	.00	.00	.00	.00	.00	3.1	4.4	15	3.1	.00	.00	.00
7	.00	.00	.00	.00	.00	3.8	4.1	15	1.2	.00	.00	.00
8	.00	.00	.00	.00	.00	3.6	3.4	12	.56	.00	.00	.00
9	.00	.00	.00	.00	.00	2.9	4.7	10	.26	.00	.00	.00
10	.00	.00	.00	.00	.00	2.7	4.7	9.6	.04	.00	.00	.00
11	.00	.00	.00	.00	.00	1.9	4.8	9.5	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	1.3	4.5	11	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	1.8	5.4	12	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	2.2	6.7	12	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	1.7	7.7	12	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	1.5	9.0	12	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	1.4	10	11	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	1.2	15	9.5	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	1.6	14	8.5	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	2.8	14	7.3	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	2.1	16	6.6	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	1.7	18	5.4	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	1.3	18	5.1	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	1.3	14	5.0	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	1.4	11	5.4	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	1.8	10	5.3	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	1.1	9.2	6.2	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.78	9.8	6.1	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.83	9.3	5.9	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.87	7.7	5.3	.00	.00	.00	.00
31	.00	---	.00	.00	---	1.1	---	6.3	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	63.45	254.7	277.0	27.36	0.00	0.00	0.00
MEAN	.000	.000	.000	.000	.000	2.05	8.49	8.94	.91	.000	.000	.000
MAX	.00	.00	.00	.00	.00	12	18	15	5.5	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	1.5	5.0	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	126	505	549	54	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961-62, 1970-94, BY WATER YEAR (WY)

MEAN	.59	1.10	.21	.10	.37	3.38	17.2	19.8	6.79	.20	.40	.003
MAX	14.4	13.5	2.13	1.54	2.12	14.0	59.9	73.4	42.6	1.95	7.97	.074
(WY)	1973	1973	1972	1984	1984	1983	1978	1983	1983	1983	1984	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.024	.000	.000	.000	.000
(WY)	1961	1962	1962	1962	1973	1973	1977	1989	1974	1961	1961	1961

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1961-62, 1970-94	
ANNUAL TOTAL	3112.26		622.51			
ANNUAL MEAN	8.53		1.71		4.19	
HIGHEST ANNUAL MEAN					13.8	1983
LOWEST ANNUAL MEAN					.27	1989
HIGHEST DAILY MEAN	65	May 14	18	Apr 22	180	May 24 1983
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1960
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1960
ANNUAL RUNOFF (AC-FT)	6170		1230		3030	
10 PERCENT EXCEEDS	40		7.5		13	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

09409100 SANTA CLARA RIVER ABOVE BAKER RESERVOIR NEAR CENTRAL, UT

LOCATION.--Lat 37°23'05", long 113°37'52", in SW¼ NW¼NE¼ (revised) 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, 2.3 mi south of Central, Utah, and 4.0 mi north of Veyo, Utah.

DRAINAGE AREA.--116 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 4,875 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good except those for discharges below 2.0 ft³/s, which are poor. Diversion 0.5 mi upstream for power generation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 460 ft³/s (estimated), Feb. 19, 1993, gage height, 3.70 ft; minimum daily discharge, 0.13 ft³/s, Aug. 15, 16, 1991.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 6, 1966 reached a discharge of 2,080 ft³/s, from flow over dam measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft³/s Mar. 16, gage height, 1.42 ft; minimum daily discharge, 0.69 ft³/s, Aug. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.8	.74	1.3	1.2	2.0	14	1.3	2.5	6.9	6.6	.71
2	1.4	1.6	.74	1.2	1.3	4.3	15	1.4	1.9	7.0	6.5	.70
3	1.3	1.6	.74	1.2	1.4	7.0	15	1.5	1.8	7.0	6.4	.70
4	1.3	1.6	.76	1.3	1.4	6.9	16	1.4	1.9	7.1	6.4	.70
5	1.3	1.6	.86	1.3	1.3	5.1	15	3.0	1.6	7.1	6.4	3.7
6	1.4	1.5	.86	1.3	1.4	3.9	11	4.8	1.4	7.1	6.4	3.2
7	2.5	1.5	.85	1.2	1.5	2.7	2.7	6.8	1.4	7.1	6.4	.74
8	2.0	1.5	.85	1.3	1.7	2.3	1.1	6.3	1.5	7.1	6.5	.74
9	1.6	1.5	1.1	1.3	1.5	1.8	1.2	3.4	1.4	7.1	6.4	.73
10	1.7	1.5	1.1	1.4	1.5	6.2	1.2	1.6	1.5	7.0	6.5	.73
11	2.0	2.2	1.1	1.2	1.4	16	1.1	1.9	1.5	6.9	6.4	.72
12	2.1	1.8	1.2	1.3	1.3	14	1.1	1.8	1.4	6.8	6.4	4.3
13	1.9	1.5	1.1	1.2	1.3	14	1.2	2.7	1.5	6.7	6.6	5.9
14	1.7	1.4	1.0	1.3	1.5	14	1.2	7.0	1.4	7.0	6.4	6.0
15	1.2	1.3	1.0	1.3	1.5	15	1.4	8.6	1.4	6.6	6.4	6.0
16	1.1	1.3	1.0	1.3	1.5	17	1.6	9.8	1.4	6.5	6.4	5.9
17	1.5	1.3	.98	1.3	2.7	17	1.8	5.6	1.3	6.7	6.3	5.9
18	3.2	1.3	.97	1.3	3.6	17	2.5	3.6	1.3	6.7	6.4	5.9
19	2.6	1.2	.92	1.3	1.8	18	3.3	1.9	1.3	6.8	6.7	6.0
20	2.0	1.1	.76	1.3	1.5	21	4.9	1.7	1.3	7.0	6.6	6.0
21	1.8	1.1	.77	1.3	1.4	20	7.3	1.6	1.2	7.1	6.4	5.9
22	1.8	1.2	.78	1.4	1.4	18	8.7	1.5	1.3	7.3	6.3	5.8
23	1.7	1.1	.87	1.4	1.4	16	8.8	1.6	1.2	7.2	6.1	5.8
24	1.7	.99	1.0	1.3	1.6	15	4.7	1.5	1.1	6.8	6.1	5.8
25	1.5	.81	1.2	1.4	1.6	15	2.1	1.4	1.1	6.8	3.3	5.8
26	1.5	.83	1.2	1.4	1.7	15	1.7	1.7	1.1	6.8	.71	5.9
27	1.5	.90	1.4	1.4	1.9	14	1.6	2.1	5.4	6.8	.69	5.8
28	1.7	.88	1.3	1.3	1.9	13	1.5	2.4	8.3	6.8	.72	5.8
29	1.8	.83	1.2	1.3	---	13	1.6	2.2	8.2	6.8	.72	6.0
30	1.8	.83	1.2	1.3	---	13	1.4	1.8	7.5	6.6	.71	6.1
31	1.8	---	1.3	1.1	---	13	---	2.8	---	6.6	.72	---
TOTAL	53.7	39.57	30.85	40.2	45.2	370.2	151.7	96.7	67.1	213.8	161.57	123.97
MEAN	1.73	1.32	1.00	1.30	1.61	11.9	5.06	3.12	2.24	6.90	5.21	4.13
MAX	3.2	2.2	1.4	1.4	3.6	21	16	9.8	8.3	7.3	6.7	6.1
MIN	1.1	.81	.74	1.1	1.2	1.8	1.1	1.3	1.1	6.5	.69	.70
AC-FT	107	78	61	80	90	734	301	192	133	424	320	246

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1994, BY WATER YEAR (WY)

MEAN	2.42	2.75	4.05	4.69	4.80	11.3	11.9	21.7	10.7	4.37	2.85	3.35
MAX	7.93	10.3	10.6	12.9	11.8	34.6	35.1	77.8	36.3	8.14	5.21	5.84
(WY)	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1994	1990
MIN	.41	.50	.40	.55	.55	.75	1.65	.47	.63	.66	.74	.54
(WY)	1992	1990	1990	1990	1990	1990	1990	1990	1990	1990	1992	1991

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1990 - 1994	
ANNUAL TOTAL	6823.91		1394.56			
ANNUAL MEAN	18.7		3.82		7.09	
HIGHEST ANNUAL MEAN					20.8	1993
LOWEST ANNUAL MEAN					1.39	1990
HIGHEST DAILY MEAN	182	May 17	21	Mar 20	182	May 17 1993
LOWEST DAILY MEAN	.74	Dec 1	.69	Aug 27	.13	Aug 15 1991
ANNUAL SEVEN-DAY MINIMUM	.79	Nov 29	.71	Aug 29	.18	Aug 14 1991
ANNUAL RUNOFF (AC-FT)	13540		2770		5140	
10 PERCENT EXCEEDS	53		7.2		14	
50 PERCENT EXCEEDS	5.5		1.6		1.7	
90 PERCENT EXCEEDS	1.1		.99		.49	

09409880 SANTA CLARA RIVER AT GUNLOCK, UT

LOCATION.--Lat 37°16'55", long 113°46'00", in SW¼SW¼NW¼ 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 and crest-stage gage. Elevation of gage is 3,628 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good except those for flows below 2.0 ft³/s, which are poor. Many diversions for irrigation upstream from station. Flow regulated by several reservoirs and powerplant upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,810 ft³/s Feb. 14, 1980, gage height, 5.74 ft from rating curve extended above 1,600 ft³/s; no flow several days during 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 134 ft³/s, Feb. 18, gage height, 3.60 ft; minimum daily discharge, 0.87 ft³/s, June 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	16	19	16	19	28	19	16	11	5.1	8.5	4.5
2	5.0	17	18	16	19	28	18	15	14	4.2	8.7	3.3
3	6.6	20	19	16	19	29	18	13	18	2.4	7.9	3.1
4	7.5	16	20	16	19	28	18	12	18	5.0	5.5	5.3
5	7.5	16	20	17	23	27	15	12	15	5.9	3.3	5.3
6	9.0	21	20	16	28	24	15	11	11	4.9	5.9	5.3
7	9.1	20	16	13	30	27	18	12	10	8.0	3.7	5.1
8	9.0	19	9.9	15	40	27	13	14	11	9.0	3.5	4.1
9	9.8	16	10	15	35	22	13	18	11	7.8	2.2	4.3
10	9.2	12	11	16	27	19	16	14	8.9	8.8	2.0	4.5
11	13	20	12	16	24	17	16	9.7	7.8	7.4	3.3	3.3
12	12	22	18	16	22	19	15	11	9.4	5.5	2.4	3.4
13	12	24	14	17	21	21	15	15	9.5	3.4	3.0	2.9
14	9.1	24	12	17	24	22	15	20	5.3	2.9	2.6	2.7
15	8.4	24	19	17	19	22	15	20	1.1	2.5	2.7	3.0
16	10	24	21	17	14	25	14	17	.87	7.4	3.6	3.0
17	12	22	21	17	33	23	13	18	2.3	11	3.3	3.4
18	18	22	20	17	78	20	13	18	3.3	8.9	3.7	3.5
19	20	22	19	17	39	20	12	16	3.4	7.7	5.5	3.4
20	18	22	18	17	30	30	8.9	16	9.0	12	5.5	2.3
21	17	23	17	17	28	30	7.2	14	5.7	10	5.7	2.1
22	17	23	16	17	26	21	9.7	13	5.6	9.4	5.0	2.0
23	18	23	16	19	24	15	11	12	10	9.3	3.4	2.6
24	18	23	16	21	24	18	10	11	5.7	8.1	2.4	3.4
25	16	22	16	19	24	23	12	9.7	4.5	7.3	5.3	3.2
26	15	22	15	13	26	28	15	9.7	2.6	8.2	8.1	2.7
27	15	22	15	14	25	29	16	8.3	1.4	8.7	4.1	2.2
28	16	22	15	19	30	26	18	6.0	2.3	7.2	4.3	1.9
29	16	21	15	19	---	23	18	7.6	4.0	7.9	5.0	1.8
30	16	20	17	18	---	21	17	10	5.0	6.6	5.7	3.9
31	17	---	18	18	---	20	---	9.1	---	6.8	5.8	---
TOTAL	393.3	620	512.9	518	770	732	433.8	408.1	226.67	219.3	141.6	101.5
MEAN	12.7	20.7	16.5	16.7	27.5	23.6	14.5	13.2	7.56	7.07	4.57	3.38
MAX	20	24	21	21	78	30	19	20	18	12	8.7	5.3
MIN	5.0	12	9.9	13	14	15	7.2	6.0	.87	2.4	2.0	1.8
AC-FT	780	1230	1020	1030	1530	1450	860	809	450	435	281	201

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1994, BY WATER YEAR (WY)

MEAN	10.9	15.3	15.4	19.3	37.7	50.3	41.1	43.9	31.1	11.4	9.25	8.24
MAX	28.0	30.9	26.0	95.4	372	211	150	222	138	38.1	30.5	26.5
(WY)	1984	1981	1981	1980	1980	1979	1973	1973	1973	1980	1980	1980
MIN	3.14	5.78	7.72	4.73	7.69	8.08	6.05	5.14	4.85	2.72	3.10	2.79
(WY)	1992	1990	1978	1972	1972	1971	1977	1989	1972	1977	1989	1990

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1970 - 1994	
ANNUAL TOTAL	23017.5		5077.17			
ANNUAL MEAN	63.1		13.9		24.4	
HIGHEST ANNUAL MEAN					86.8	1980
LOWEST ANNUAL MEAN					7.10	1990
HIGHEST DAILY MEAN	682	Jan 18	78	Feb 18	2040	Feb 15 1980
LOWEST DAILY MEAN	3.9	Jul 31	.87	Jun 16	.00	Jul 26 1977
ANNUAL SEVEN-DAY MINIMUM	4.9	Jul 31	2.5	Sep 23	.02	Aug 1 1977
ANNUAL RUNOFF (AC-FT)	45660		10070		17680	
10 PERCENT EXCEEDS	169		24		48	
50 PERCENT EXCEEDS	24		15		12	
90 PERCENT EXCEEDS	8.5		3.4		4.8	

09410100 SANTA CLARA RIVER BELOW WINSOR DAM, NEAR SANTA CLARA, UT

LOCATION.--Lat 37°11'22", long 113°46'02", in NE¼NW¼SW¼ sec. 28, T. 41 S., R. 17 W., Washington County, Hydrologic Unit 15010008, on right bank 1,100 ft downstream from Winsor Dam, 0.6 mi northwest of Shivwits Indian Village, and 7.5 mi northwest of Santa Clara.

DRAINAGE AREA.--378 mi².

PERIOD OF RECORD.--December 1971 to current year.

REVISED RECORDS.--WRD UT-73-1: 1972(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,210 ft above sea level, from topographic map, prior to Mar. 29, 1988, at several sites upstream and downstream at different datums.

REMARKS.--Records good except those for flows less than 2.0 ft³/s, flows in excess of 200 ft³/s, and estimated daily discharges, which are poor. Flow regulated by Gunlock Reservoir. Several diversions upstream for irrigation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 5,850 ft³/s, flood of 1938 (exact date unknown), gage height 7.90 ft, from slope area measurement.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,770 ft³/s Mar. 3, 1983, gage height, 6.07 ft from rating curve extended above 980 ft³/s on basis of slope-area measurement; no flow several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 855 ft³/s, July 18, gage height, 15.15 ft; minimum daily discharge, 0.10 ft³/s, Oct. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	6.2	.52	.41	14	30	17	9.7	15	13	15	e10
2	13	6.9	.42	.41	15	30	17	10	9.8	13	15	e10
3	12	7.6	.41	.41	15	29	16	10	9.5	14	14	e10
4	8.4	7.8	.41	.41	14	34	16	8.9	13	14	15	e10
5	8.3	7.6	.41	.44	14	36	15	9.3	13	14	15	e6.0
6	7.8	7.6	.43	.44	15	36	15	9.5	13	15	16	e6.0
7	8.0	7.8	.46	.41	15	33	15	9.6	14	15	17	e6.0
8	8.3	7.9	.46	.41	18	27	15	11	14	14	18	e6.0
9	8.3	7.3	.46	.51	34	26	15	14	13	15	17	e6.0
10	6.9	7.4	.46	.52	30	26	15	15	13	15	17	e6.0
11	5.3	7.0	.47	.52	27	16	15	15	13	15	16	e12
12	5.1	6.4	.64	.52	27	13	15	15	14	15	16	e12
13	5.1	3.9	.46	.52	27	13	15	15	13	15	16	e12
14	5.3	3.6	.46	.54	29	13	15	15	13	15	16	e12
15	5.3	3.4	.50	.57	31	13	16	11	13	15	e15	e12
16	5.0	2.2	.52	.57	32	13	16	9.8	13	15	e14	e12
17	4.7	1.1	.48	.57	33	13	16	14	13	15	e14	e12
18	4.5	.86	.46	2.4	35	13	15	14	14	45	e14	e12
19	3.4	.73	.46	12	43	12	15	14	13	17	e14	e12
20	.87	.63	.42	13	44	9.1	16	15	13	17	e14	e8.0
21	e.40	.57	.41	30	47	7.5	16	15	13	17	e14	e8.0
22	e.30	.57	.41	22	47	9.1	16	15	13	18	e14	e8.0
23	e.30	.57	.41	16	34	13	15	14	12	17	e14	e8.0
24	e.30	.53	.41	15	32	12	16	14	12	18	e14	e12
25	e.20	.52	.41	17	30	14	16	14	11	18	e14	e12
26	e.10	.52	.41	14	29	15	14	13	11	19	e14	e12
27	e.60	.52	.41	12	29	15	10	13	11	20	e14	e12
28	1.2	.48	.41	14	30	15	10	13	11	20	e14	e12
29	1.4	.49	.41	13	---	16	10	14	11	19	e10	e12
30	1.4	.52	.41	14	---	16	10	15	11	15	e10	e10
31	2.2	---	.41	15	---	17	---	15	---	14	e10	---
TOTAL	146.97	109.21	13.82	217.58	790	584.7	443	399.8	375.3	521	450	298.0
MEAN	4.74	3.64	.45	7.02	28.2	18.9	14.8	12.9	12.5	16.8	14.5	9.93
MAX	13	7.9	.64	30	47	36	17	15	15	45	18	12
MIN	.10	.48	.41	.41	14	7.5	10	8.9	9.5	13	10	6.0
AC-FT	292	217	27	432	1570	1160	879	793	744	1030	893	591

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1994, BY WATER YEAR (WY)

MEAN	3.54	5.88	3.45	15.7	36.3	47.3	47.4	41.2	35.3	18.1	15.4	10.9
MAX	27.1	43.6	35.2	158	366	231	169	157	168	46.2	33.9	29.1
(WY)	1984	1984	1984	1980	1980	1983	1978	1973	1983	1983	1980	1980
MIN	.000	.000	.000	.000	.000	.14	6.08	5.06	8.03	.90	.33	.000
(WY)	1978	1978	1991	1975	1975	1977	1977	1977	1991	1990	1990	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1973 - 1994	
ANNUAL TOTAL	20290.10		4349.38			
ANNUAL MEAN	55.6		11.9		23.3	
HIGHEST ANNUAL MEAN					90.1	1980
LOWEST ANNUAL MEAN					3.76	1990
HIGHEST DAILY MEAN	994	Jan 18	47	Feb 21	1530	Mar 3 1983
LOWEST DAILY MEAN	.10	Oct 26	.10	Oct 26	.00	Oct 8 1972
ANNUAL SEVEN-DAY MINIMUM	.31	Oct 21	.31	Oct 21	.00	Oct 8 1972
ANNUAL RUNOFF (AC-FT)	40250		8630		16850	
10 PERCENT EXCEEDS	141		19		50	
50 PERCENT EXCEEDS	22		13		12	
90 PERCENT EXCEEDS	.51		.46		.00	

e Estimated

09413000 SANTA CLARA RIVER AT ST. GEORGE, UT

LOCATION.--Lat 37°04'31", long 113°35'32", in SE¼SW¼NE¼ 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 and crest-stage gage. Elevation of gage is 2,560 ft above sea level, from topographic map. October 1950 to September 1956, gage located 0.25 mi downstream; November 1984 to September 1989, 0.5 mi downstream from present site, both at different datum.

REMARKS.--Records good except for estimated daily discharges and flows less than 2.0 ft³/s, which are poor. Flow regulated by reservoirs and many diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,200 ft³/s, Aug. 24, 1955, gage height, 10.02 ft from rating curve extended above 400 ft³/s on basis of indirect measurements at gage heights 7.31 and 9.48 ft, site and datum then in use; no flow at times in 1951, 1953, 1955-56, 1989, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 529 ft³/s, July 19, gage height, 9.61 ft; maximum gage height, 9.62 ft, Feb. 28, backwater from construction dam; minimum daily discharge 0.72 ft³/s, Aug. 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	2.8	5.0	4.9	12	e32	4.6	8.9	3.3	1.1	2.5	2.5
2	6.3	3.2	5.0	4.9	12	31	5.4	7.1	2.6	1.1	2.3	2.9
3	5.6	4.3	4.7	4.7	12	27	5.4	6.6	2.1	1.8	2.1	5.9
4	5.9	5.8	4.8	4.2	14	22	6.8	6.1	2.1	2.1	1.3	3.5
5	4.8	6.0	5.1	4.7	13	24	6.7	4.6	2.0	2.8	.72	2.8
6	24	6.2	5.2	3.4	12	30	5.3	4.7	2.3	2.4	1.8	2.6
7	18	5.9	5.4	2.7	13	25	3.8	4.0	4.1	1.9	1.5	2.2
8	12	5.9	5.5	3.1	16	20	3.7	3.3	3.3	1.6	2.8	2.0
9	11	7.4	5.4	3.9	29	16	3.8	3.8	3.0	2.0	3.5	2.9
10	10	9.4	4.8	4.1	30	20	4.9	3.5	2.7	2.1	3.0	2.6
11	9.0	12	4.8	4.5	27	18	4.9	3.1	2.0	2.1	3.6	1.3
12	8.2	10	5.0	4.6	27	12	3.2	3.7	1.9	3.0	5.5	2.5
13	6.7	8.2	5.0	4.6	27	9.8	3.1	4.3	2.4	2.1	4.7	2.9
14	6.8	7.4	4.9	4.5	28	6.3	2.8	5.6	2.5	2.1	3.1	3.4
15	6.5	8.0	5.4	4.5	27	4.6	2.7	4.3	4.9	2.0	2.0	3.0
16	5.7	7.2	4.9	4.5	28	6.6	3.1	3.3	3.0	1.0	1.5	2.5
17	6.1	6.4	5.0	4.4	35	7.1	4.7	2.6	2.2	.78	.76	2.3
18	7.0	5.7	4.9	4.7	43	4.8	4.9	3.0	3.4	8.8	1.2	2.2
19	6.9	3.9	5.2	5.4	42	10	3.8	3.0	2.9	42	3.6	2.1
20	4.7	4.0	5.1	10	43	10	2.5	2.5	3.6	12	3.5	3.7
21	4.0	5.2	5.0	7.6	44	9.5	2.9	2.5	3.2	4.0	3.5	2.0
22	4.0	5.4	5.0	8.6	43	4.9	3.5	2.6	3.3	6.1	3.0	1.8
23	4.7	5.1	5.0	10	36	6.5	4.0	3.2	3.6	5.5	1.7	1.5
24	5.1	4.9	4.9	13	e35	7.7	4.8	2.4	2.7	4.2	1.6	1.4
25	4.7	4.5	5.1	12	e35	17	5.4	2.2	2.0	5.5	2.2	2.0
26	4.0	4.7	5.5	13	e32	16	13	2.9	2.0	4.7	2.1	2.5
27	3.8	4.5	5.7	12	e32	13	11	3.7	1.9	3.9	2.7	2.6
28	3.9	4.6	5.0	13	e32	16	30	2.2	1.4	3.8	2.7	1.7
29	3.6	4.6	5.0	13	---	15	14	2.5	1.2	3.4	3.0	2.3
30	2.5	5.2	4.7	11	---	14	9.4	2.7	1.2	2.3	2.5	4.5
31	3.0	---	4.8	11	---	9.1	---	2.4	---	1.7	1.8	---
TOTAL	211.8	178.4	156.8	216.5	779	464.9	184.1	117.3	78.8	139.88	77.78	78.1
MEAN	6.83	5.95	5.06	6.98	27.8	15.0	6.14	3.78	2.63	4.51	2.51	2.60
MAX	24	12	5.7	13	44	32	30	8.9	4.9	42	5.5	5.9
MIN	2.5	2.8	4.7	2.7	12	4.6	2.5	2.2	1.2	.78	.72	1.3
AC-FT	420	354	311	429	1550	922	365	233	156	277	154	155

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1994, BY WATER YEAR (WY)

MEAN	3.22	4.35	5.95	13.9	14.7	22.9	19.9	12.5	5.86	3.70	7.30	3.33
MAX	10.3	12.7	14.5	128	136	177	136	80.8	38.0	8.65	38.8	7.10
(WY)	1993	1953	1953	1993	1993	1993	1952	1993	1993	1955	1955	1985
MIN	.22	.59	.91	.82	.79	1.44	1.50	1.09	.31	.36	.055	.29
(WY)	1991	1991	1992	1991	1991	1991	1991	1990	1990	1990	1956	1953

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1951 - 1994	
ANNUAL TOTAL	20374.6		2683.36			
ANNUAL MEAN	55.8		7.35		9.99	
HIGHEST ANNUAL MEAN					56.0	1993
LOWEST ANNUAL MEAN					1.18	1991
HIGHEST DAILY MEAN	1170	Jan 18	44	Feb 21	1170	Jan 18 1993
LOWEST DAILY MEAN	2.3	Aug 19	.72	Aug 5	.00	Sep 21 1951
ANNUAL SEVEN-DAY MINIMUM	2.9	Aug 13	1.4	Jun 27	.00	Aug 2 1956
ANNUAL RUNOFF (AC-FT)	40410		5320		7230	
10 PERCENT EXCEEDS	147		16		15	
50 PERCENT EXCEEDS	11		4.7		3.3	
90 PERCENT EXCEEDS	3.5		2.0		.40	

e Estimated

09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT

LOCATION.--Lat 37°04'14", long 113°34'55", in SE¼NW¼SW¼ 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.

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 sea level, from topographic map, prior to Sept. 19, 1978 at site 1.5 mi downstream at different datum.

REMARKS.--Records fair except those for Oct. 1-11, 16-26 and estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 19,600 acres.

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, 9.5 ft³/s Sept. 5, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,560 ft³/s, Oct. 7, gage height, 6.73 ft from rating curve extended above 3,000 ft³/s on basis of slope-area measurement of peak flow at gage height 10.76 ft; minimum daily discharge, 17 ft³/s, July 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	e120	315	224	116	255	81	300	70	24	28	52
2	95	e100	378	225	128	277	85	305	59	24	27	39
3	96	e130	336	218	138	288	82	248	59	23	25	403
4	104	e130	324	194	158	288	91	227	67	28	22	224
5	127	e140	333	195	144	297	87	214	78	23	31	121
6	211	e140	330	226	147	297	94	228	65	21	25	79
7	1050	e140	337	213	149	274	97	254	52	22	29	55
8	253	e120	325	219	186	241	109	249	46	33	40	58
9	213	e140	331	220	248	227	164	239	42	27	29	62
10	193	e130	330	209	191	193	302	181	32	17	34	51
11	185	e160	323	164	178	172	193	126	48	24	33	48
12	e200	e300	344	153	191	170	153	157	32	28	34	59
13	e180	e270	318	145	181	172	146	154	38	29	52	49
14	e160	e200	207	148	187	218	142	194	34	24	67	53
15	e140	e180	216	148	200	208	175	205	35	25	47	51
16	139	e170	218	147	200	208	182	203	40	20	40	48
17	151	e180	213	145	230	179	202	173	44	21	33	50
18	177	e180	216	108	737	152	235	155	41	48	317	49
19	154	174	219	90	325	166	201	136	54	164	166	57
20	107	166	223	77	271	335	210	127	52	98	108	63
21	107	168	229	73	251	203	227	127	37	45	81	69
22	103	177	220	70	251	120	235	122	35	46	85	77
23	114	190	222	86	247	123	236	120	32	41	53	66
24	112	190	221	88	242	112	218	81	27	37	40	59
25	108	194	221	93	245	138	216	80	32	29	39	54
26	105	191	222	108	257	308	245	88	27	31	34	55
27	e120	201	225	119	257	244	272	372	33	32	36	54
28	e130	205	238	94	253	132	462	202	35	27	40	52
29	e100	222	228	93	---	103	483	113	35	30	36	51
30	e90	262	225	103	---	104	328	97	30	26	45	83
31	e95	---	224	96	---	90	---	87	---	28	64	---
TOTAL	5204	5270	8311	4491	6308	6294	5953	5564	1311	1095	1740	2291
MEAN	168	176	268	145	225	203	198	179	43.7	35.3	56.1	76.4
MAX	1050	300	378	226	737	335	483	372	78	164	317	403
MIN	85	100	207	70	116	90	81	80	27	17	22	39
AC-FT	10320	10450	16480	8910	12510	12480	11810	11040	2600	2170	3450	4540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1994, BY WATER YEAR (WY)

MEAN	124	166	184	255	335	417	482	528	187	88.6	106	94.5
MAX	322	286	350	695	1642	1025	1335	1838	1145	244	246	326
(WY)	1984	1984	1984	1989	1980	1993	1993	1983	1983	1984	1982	1980
MIN	44.4	51.4	71.5	64.7	56.1	48.8	47.2	29.5	22.8	20.5	25.1	32.2
(WY)	1991	1991	1991	1991	1991	1990	1990	1990	1990	1990	1991	1978

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1978 - 1994	
ANNUAL TOTAL	191620		53832			
ANNUAL MEAN	525		147		247	
HIGHEST ANNUAL MEAN					628	1980
LOWEST ANNUAL MEAN					61.0	1991
HIGHEST DAILY MEAN	4000	Feb 20	1050	Oct 7	13000	Jan 1 1989
LOWEST DAILY MEAN	30	Aug 1	17	Jul 10	9.5	Sep 5 1991
ANNUAL SEVEN-DAY MINIMUM	33	Jul 31	24	Jul 1	13	Aug 7 1990
ANNUAL RUNOFF (AC-FT)	380100		106800		178800	
10 PERCENT EXCEEDS	1400		270		550	
50 PERCENT EXCEEDS	241		136		137	
90 PERCENT EXCEEDS	60		32		33	

e Estimated

09413500 VIRGIN RIVER NEAR ST. GEORGE, UT

LOCATION.--Lat 37°00'52", long 113°40'47", in NW¼NE¼SE¼ 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, 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 sea level, from topographic map. October 1950 to December 1956, gage located about 400 ft downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by reservoirs and many diversions for irrigation upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 55,000 ft³/s (estimated) Jan. 1, 1989, gage height, about 30.0 ft, result of Quail Creek reservoir dike failure.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft³/s Aug. 25, 1955, gage height 12.70, site and datum then in use; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,670 ft³/s, Oct. 7, gage height, 6.41 ft, from rating table extended above 1,200 ft³/s on basis of slope-area measurement at gage height 11.03 ft; minimum daily discharge 13 ft³/s, July 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	134	e318	251	124	e280	84	305	68	21	27	52
2	65	118	e377	258	136	297	84	342	55	19	24	37
3	60	142	e343	265	143	325	77	272	e58	15	22	384
4	67	142	e343	224	175	312	89	244	e53	22	21	278
5	72	171	e343	228	165	314	86	220	e50	19	28	118
6	145	169	e351	268	161	335	84	237	e47	15	21	78
7	814	e172	e351	264	155	308	90	281	e44	16	23	57
8	251	146	e360	249	192	257	91	266	e42	24	35	53
9	195	170	343	255	289	271	127	246	e39	26	23	59
10	189	159	e351	234	226	235	317	181	29	15	30	e54
11	e183	191	352	194	212	193	214	106	40	18	28	e51
12	214	304	369	171	231	184	142	134	30	22	28	e54
13	203	280	368	164	204	211	134	137	31	24	35	e51
14	160	e238	217	173	205	260	127	179	28	21	62	e48
15	172	203	244	169	227	239	155	222	28	21	40	41
16	e178	186	242	152	221	238	172	225	32	14	30	43
17	173	200	234	150	247	205	190	172	35	13	23	47
18	200	e212	231	119	777	161	246	145	34	37	281	47
19	175	e212	231	92	371	169	214	110	42	159	223	55
20	e156	201	236	85	294	336	239	92	47	90	98	61
21	e142	e183	229	e84	260	235	221	92	35	41	77	e66
22	119	e218	238	e84	257	124	254	103	29	39	73	e64
23	127	238	236	89	259	122	239	132	28	37	56	e64
24	152	225	243	93	233	112	219	83	24	34	39	64
25	158	208	248	88	e250	139	183	67	28	28	37	51
26	120	212	249	93	268	328	237	74	e24	30	33	52
27	153	231	233	126	282	288	258	359	30	32	39	49
28	168	238	258	96	e289	152	444	235	31	28	32	47
29	123	e258	249	e96	---	104	460	105	31	29	39	45
30	104	296	249	e124	---	111	327	91	28	25	35	67
31	e107	---	246	e115	---	e96	---	102	---	27	56	---
TOTAL	5208	6057	8882	5053	6853	6941	5804	5559	1120	961	1618	2237
MEAN	168	202	287	163	245	224	193	179	37.3	31.0	52.2	74.6
MAX	814	304	377	268	777	336	460	359	68	159	281	384
MIN	60	118	217	84	124	96	77	67	24	13	21	37
AC-FT	10330	12010	17620	10020	13590	13770	11510	11030	2220	1910	3210	4440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-56, 1991-94, BY WATER YEAR (WY)

MEAN	65.5	116	160	206	236	278	402	348	64.1	58.7	135	40.8
MAX	168	202	287	519	869	954	1312	1300	298	123	522	80.3
(WY)	1994	1994	1994	1993	1993	1993	1952	1993	1993	1955	1955	1954
MIN	22.8	65.2	64.5	120	88.1	69.3	38.3	6.86	.000	10.1	4.30	.000
(WY)	1951	1992	1957	1992	1951	1956	1953	1953	1951	1952	1956	1956

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1951-56, 1991-94	
ANNUAL TOTAL	180179		56293			
ANNUAL MEAN	494		154		177	
HIGHEST ANNUAL MEAN					472	1993
LOWEST ANNUAL MEAN					73.7	1956
HIGHEST DAILY MEAN	3550	Feb 20	814	Oct 7	5490	Aug 25 1955
LOWEST DAILY MEAN	18	Aug 2	13	Jul 17	.00	Apr 17 1951
ANNUAL SEVEN-DAY MINIMUM	20	Jul 31	18	Jul 1	.00	May 29 1951
ANNUAL RUNOFF (AC-FT)	357400		111700		128300	
10 PERCENT EXCEEDS	1310		289		343	
50 PERCENT EXCEEDS	249		143		90	
90 PERCENT EXCEEDS	45		28		.00	

e Estimated

09413900 BEAVER DAM WASH NEAR ENTERPRISE, UT

LOCATION.--Lat 37°28'12", long 114°02'45", in NW¼SW¼NW¼ sec. 24, T. 38 S., R. 20 W., Washington County, Hydrologic Unit 15010010, 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 sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges and for flows below 2.0 ft³/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,440 ft³/s, Feb. 19, 1993, gage height, 9.56 ft, from rating curve extended above 140 ft³/s on basis of slope-area measurement of peak. No flow Aug. 8, 10, 1994.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug. 20	1900	*419	*7.19	No other peaks above base discharge.			

Minimum daily discharge, no flow Aug. 8, 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	2.4	3.9	e3.3	3.3	7.8	6.9	5.2	2.6	.46	.36	.87
2	1.2	2.6	3.9	e3.3	3.3	10	6.3	4.6	2.4	.17	.32	.88
3	1.0	2.6	3.8	e3.4	3.3	14	6.0	4.9	2.6	.09	.32	.66
4	.72	2.8	3.4	e3.4	3.4	15	5.9	5.6	2.5	.10	.31	.27
5	1.1	3.0	3.4	3.4	3.6	16	5.9	6.3	2.1	.34	.30	.31
6	1.4	3.3	3.4	3.6	3.6	14	5.7	6.1	2.5	.42	.18	.51
7	1.6	3.9	3.4	3.6	4.4	17	5.7	6.0	2.5	.40	.02	.55
8	1.9	4.3	3.4	3.4	15	16	5.7	5.5	2.2	.40	.00	.62
9	1.9	4.4	3.6	3.5	11	12	6.5	5.5	2.0	.36	.08	.81
10	1.9	3.9	3.8	3.6	7.4	9.8	7.3	5.5	2.1	.11	.00	.94
11	1.9	3.9	3.8	3.6	5.9	9.2	7.3	5.5	1.9	.18	.11	1.0
12	2.0	4.0	4.0	3.6	5.1	9.6	7.1	5.4	1.2	.25	.11	1.0
13	2.1	4.4	4.3	3.6	4.7	8.9	6.8	5.0	2.0	.25	.02	1.0
14	2.2	4.5	4.2	3.6	4.4	8.5	6.8	4.5	2.2	.25	.05	1.1
15	2.4	4.1	3.9	3.8	4.3	8.5	6.4	3.3	1.7	.23	.21	1.2
16	2.4	3.6	3.9	3.7	4.3	8.0	6.1	3.3	1.2	.18	.78	1.2
17	2.3	3.6	3.9	3.6	12	8.0	5.5	3.5	1.3	.10	.93	1.1
18	2.5	3.6	4.8	3.6	22	7.8	5.7	3.4	1.1	.13	.97	.94
19	2.8	3.6	4.8	3.6	12	7.1	5.9	3.6	.75	.22	.91	.97
20	2.8	3.4	4.0	3.7	9.5	11	5.9	3.9	1.3	.24	15	1.3
21	2.8	3.1	3.7	3.8	6.9	12	5.9	3.9	1.6	.29	6.3	1.4
22	2.7	3.0	3.6	3.8	6.1	9.3	5.9	3.9	1.7	.29	1.7	.97
23	2.6	3.4	3.6	3.7	5.6	7.9	5.9	4.0	1.8	.26	1.5	1.3
24	2.6	3.4	3.6	3.6	5.5	7.1	6.4	4.0	1.7	.07	1.4	1.3
25	2.7	3.4	3.6	3.6	5.5	7.9	6.2	3.9	1.1	.06	1.0	1.2
26	2.7	3.4	3.6	3.8	6.8	9.5	6.8	3.9	.50	.20	.69	1.1
27	2.7	3.4	3.6	3.8	7.4	11	7.0	3.7	.68	.29	.59	1.1
28	2.5	3.6	3.6	3.8	8.2	10	7.3	2.9	.87	.34	.29	1.2
29	2.2	3.9	3.6	3.8	---	8.8	6.8	2.1	.83	.40	.55	1.6
30	2.3	3.9	3.4	3.7	---	7.4	6.5	2.5	.58	.44	.98	1.9
31	2.3	---	3.3	3.5	---	7.1	---	2.6	---	.43	.94	---
TOTAL	65.42	106.4	116.8	111.8	194.5	316.2	190.1	134.0	49.51	7.95	36.92	30.30
MEAN	2.11	3.55	3.77	3.61	6.95	10.2	6.34	4.32	1.65	.26	1.19	1.01
MAX	2.8	4.5	4.8	3.8	22	17	7.3	6.3	2.6	.46	15	1.9
MIN	.72	2.4	3.3	3.3	3.3	7.1	5.5	2.1	.50	.06	.00	.27
AC-FT	130	211	232	222	386	627	377	266	98	16	73	60

CAL YR 1993 TOTAL 10600.07 MEAN 29.0 MAX 939 MIN .32 AC-FT 21030
WTR YR 1994 TOTAL 1359.90 MEAN 3.73 MAX 22 MIN .00 AC-FT 2700

e Estimated

09414900 BEAVER DAM WASH AT BEAVER DAM, AZ

LOCATION.--Lat. 36°54'07", long 113°55'58", in NW¼NE¼NE¼ sec. 5, T. 40 N., R. 15 W., Mohave County, Hydrologic Unit 15010010, on downstream end of bridge pier at Beaver Dam, AZ.

DRAINAGE.--575 mi².

PERIOD OF RECORD.--February 1993 to September 1994 (discontinued).

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,940 ft³/s Feb. 10, 1993, gage height, 7.14 ft, from rating curve extended above 2,200 ft³/s; minimum daily discharge 0.76 ft³/s, Sept. 6, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40 ft³/s Feb. 18, gage height, 4.81 ft; minimum daily discharge 1.4 ft³/s, June 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	2.4	2.5	3.7	2.8	2.3	2.9	2.2	2.6	2.6	2.0	2.0
2	2.8	2.8	2.3	3.4	2.7	2.4	2.9	2.2	2.6	2.5	1.8	2.0
3	3.0	3.0	2.2	3.5	2.7	2.7	2.9	2.2	2.8	2.5	1.7	2.0
4	2.5	2.9	2.4	3.6	2.9	2.7	3.1	2.3	2.5	2.4	1.7	2.1
5	2.3	2.7	2.2	3.0	2.9	2.5	3.1	2.5	1.9	2.3	1.7	2.1
6	2.2	2.8	2.1	2.9	3.1	2.9	3.2	2.6	1.9	2.2	1.7	2.2
7	3.4	2.7	2.3	3.6	3.3	3.2	3.3	2.7	2.1	2.3	1.8	1.9
8	3.0	2.7	2.4	3.2	3.3	3.0	3.5	2.6	2.1	2.4	1.9	1.9
9	2.8	2.8	2.6	3.3	3.5	2.5	3.2	2.5	1.9	2.3	2.0	1.9
10	2.8	2.8	2.4	3.2	2.7	2.1	3.2	2.5	1.4	2.2	1.9	2.0
11	2.9	3.1	2.7	2.6	2.7	1.7	3.2	2.5	1.8	2.3	2.0	2.1
12	3.0	2.8	2.7	2.5	2.7	2.0	3.2	2.6	1.9	2.4	1.9	2.2
13	3.0	2.7	2.5	2.5	2.8	2.2	3.3	2.7	1.7	2.4	1.9	2.2
14	2.6	2.7	2.8	2.7	2.9	2.2	3.3	2.7	1.5	2.3	1.9	2.3
15	2.7	2.5	3.0	2.8	2.9	2.4	3.2	2.5	1.7	2.4	1.9	2.1
16	3.0	2.5	2.7	2.8	3.0	2.3	3.0	2.4	1.6	2.3	1.8	2.0
17	3.2	2.6	2.9	2.8	3.3	2.3	3.0	2.5	1.7	2.3	1.8	2.1
18	3.2	2.7	2.9	2.9	11	2.6	3.0	2.5	1.9	2.5	1.9	2.1
19	3.1	2.7	3.0	2.8	3.2	2.7	2.8	2.4	2.2	2.5	2.5	1.9
20	3.0	2.8	3.1	2.8	2.9	2.8	2.1	2.1	2.1	2.4	2.4	2.1
21	3.0	2.8	3.4	2.8	2.8	2.7	2.3	2.4	2.2	2.2	2.3	2.1
22	2.9	2.8	3.5	2.8	2.7	2.8	2.1	2.4	2.0	2.1	2.2	2.1
23	3.0	2.8	3.5	2.8	2.2	2.8	2.1	2.7	1.8	2.2	2.3	2.3
24	3.0	2.9	3.7	2.7	2.1	3.1	2.1	2.6	1.8	2.1	2.2	2.2
25	3.0	2.8	4.0	2.4	2.1	3.2	2.2	2.0	2.0	1.9	2.3	2.2
26	2.9	2.9	3.7	2.4	2.1	2.6	2.2	2.3	2.0	2.0	2.2	2.3
27	2.9	2.9	3.7	2.7	2.1	2.6	2.3	2.4	2.2	1.9	2.3	2.2
28	3.1	2.8	3.7	2.7	2.4	2.7	2.3	2.4	2.4	1.9	2.2	2.2
29	2.8	2.5	3.7	2.8	---	2.7	2.4	2.6	2.4	1.9	2.3	2.4
30	2.6	2.7	3.8	2.8	---	2.8	2.3	2.7	2.5	1.9	2.1	2.5
31	2.4	---	3.7	2.8	---	2.8	---	2.4	---	2.0	2.0	---
TOTAL	89.2	82.6	92.1	90.3	85.8	80.3	83.7	76.1	61.2	69.6	62.6	63.7
MEAN	2.88	2.75	2.97	2.91	3.06	2.59	2.79	2.45	2.04	2.25	2.02	2.12
MAX	3.4	3.1	4.0	3.7	11	3.2	3.5	2.7	2.8	2.6	2.5	2.5
MIN	2.2	2.4	2.1	2.4	2.1	1.7	2.1	2.0	1.4	1.9	1.7	1.9
AC-FT	177	164	183	179	170	159	166	151	121	138	124	126

WTR YR 1994 TOTAL 937.2 MEAN 2.57 MAX 11 MIN 1.4 AC-FT 1860

GREAT SALT LAKE BASIN

10010000 GREAT SALT LAKE AT STATE PARK SALTAIR BEACH BOAT HARBOR, UT

LOCATION (REVISED).--Lat 40 43'53", long 112 12'46", in NE$^1/_4$SW$^1/_4$NW$^1/_4$ 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 Aug. 9, 1989 because of highway construction. Gage relocated to boat harbor marina on Aug. 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. WRD-UT-74-1: 1967-73. WDR-UT-83-1: 1981-82.

GAGE.--Water-stage recorder at Boat Harbor since October 1938. Datum at gage since September 15, 1970 is 4,186.80 ft above sea level. 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 sea level, November 1877 to November 1879 at Farmington Bay at 4,206.9 ft above sea level, November 1879 to April 1881 near Black Rock at 4,203.1 ft above sea level, April 1881 to December 1899 at Garfield Landing at 4,198.5 ft above sea level, 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 sea level, and July 1903 to October 1938 at Saltair at 4,196.9 ft above sea level.

REMARKS.--Wind effects may cause substantial changes in elevations, which are not shown in the published elevations. Specific gravity and temperature were collected from water surface near the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4,211.85 ft June 3, 1986, Mar. 30-Apr. 6, 1987; minimum, 4,191.35 ft Oct. 15, Nov. 1, 1963. Maximum elevation prior to June 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
Oct. 7, 1993	19.0	1.106	15.2
Dec. 8	3.0	1.109	15.3
Feb. 25, 1994	5.0	1.104	14.7
Apr. 13	11.0	1.094	13.4
June 1	22.0	1.092	13.4
Aug. 4	26.0	1.110	15.9

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4200.7	4200.8	4200.6	4200.7	4200.7	4200.9	4201.1	4201.3	4201.1	4200.6	4200.0	4199.2
2	4200.7	4200.7	4200.6	4200.6	4200.7	4200.9	4201.1	4201.3	4201.2	4200.5	4199.9	4199.2
3	4200.7	4200.7	4200.6	4200.6	4200.7	4200.9	4201.2	4201.3	4201.1	4200.6	4199.8	4199.2
4	4200.7	4200.8	4200.6	4200.7	4200.7	4200.9	4201.2	4201.3	4201.1	4200.5	4199.8	4199.2
5	4200.7	4200.7	4200.6	4200.7	4200.7	4200.9	4201.2	4201.4	4201.1	4200.5	4199.8	4199.2
6	4200.7	4200.6	4200.6	4200.8	4200.7	4201.0	4201.1	4201.4	4201.2	4200.4	4199.8	4199.1
7	4200.7	4200.6	4200.6	4200.6	4200.7	4201.0	4201.2	4201.3	4201.0	4200.4	4199.8	4199.1
8	4200.7	4200.6	4200.8	4200.7	4200.8	4201.0	4201.1	4201.3	4201.1	4200.4	e4199.7	4199.1
9	4200.7	4200.6	4200.8	4200.7	4200.8	4201.0	4201.2	4201.4	4201.0	4200.3	e4199.7	4199.1
10	4200.7	4200.7	4200.7	4200.7	4200.8	4201.0	4201.3	4201.3	4201.0	4200.4	e4199.7	4199.1
11	4200.7	4200.7	4201.0	4200.7	4201.0	4201.0	4201.2	4201.3	4200.9	4200.3	e4199.7	4199.1
12	4200.7	4200.7	4200.8	4200.7	4200.8	4201.1	4201.2	4201.4	4201.0	4200.3	e4199.7	4199.0
13	4200.7	4200.7	4200.7	4200.7	4200.8	4201.0	4201.2	4201.3	4200.9	4200.3	e4199.6	4199.0
14	4200.7	4200.8	4200.7	4200.7	4200.8	4201.0	4201.3	4201.3	4201.0	4200.3	e4199.6	4199.0
15	4200.7	4200.6	4200.7	4200.7	4200.8	4201.0	4201.2	4201.2	4200.9	4200.2	e4199.6	4199.0
16	4200.8	4200.6	4200.7	4200.7	4200.8	4201.0	4201.2	4201.3	4200.9	4200.2	e4199.6	4198.9
17	4200.8	4200.6	4200.6	4200.7	4200.7	4201.0	4201.2	4201.3	4200.8	4200.2	e4199.6	4198.9
18	4200.8	4200.7	4200.6	4200.7	4200.8	4201.0	4201.2	4201.3	4200.8	4200.2	e4199.6	4198.8
19	4200.8	4200.6	4200.6	4200.7	4200.8	4201.0	4201.2	4201.3	4200.8	4200.2	e4199.5	4198.8
20	4200.8	4200.6	4200.6	4200.7	4200.8	4201.0	4201.2	4201.2	4200.7	4200.2	e4199.4	4198.8
21	4200.8	4200.6	4200.7	4200.7	4200.8	4201.0	4201.2	4201.2	4200.7	4200.1	e4199.3	4198.8
22	4200.8	4200.6	4200.6	4200.7	4200.9	4201.2	4201.2	4201.2	4200.7	4200.1	e4199.3	4198.8
23	4200.8	4200.7	4200.7	4200.7	4200.8	4201.1	4201.2	4201.2	4200.7	4200.1	4199.5	4198.7
24	4200.8	4200.7	4200.6	4200.7	4200.8	4201.1	4201.1	4201.2	4200.7	4200.0	4199.4	4198.7
25	4200.8	4200.6	4200.6	4200.7	4200.8	4201.1	4201.2	4201.2	4200.7	4200.0	4199.4	4198.7
26	4200.9	4200.6	4200.6	4200.8	4200.9	4201.2	4201.2	4201.1	4200.8	4200.0	4199.4	4198.7
27	4200.8	4200.6	4200.6	4200.8	4200.9	4201.2	4201.2	4201.2	4200.7	4200.0	4199.4	4198.7
28	4200.8	4200.6	4200.6	4200.8	4200.9	4201.1	4201.3	4201.1	4200.6	4200.0	4199.4	4198.7
29	4200.9	4200.6	4200.6	4200.8	---	4201.2	4201.3	4201.1	4200.6	4200.0	4199.3	4198.7
30	4200.7	4200.6	4200.6	4200.9	---	4201.2	4201.3	4201.1	4200.6	4199.9	4199.3	4198.7
31	4200.7	---	4200.6	4200.8	---	4201.1	---	4201.1	---	4199.9	4199.3	---
MEAN	4200.8	4200.7	4200.7	4200.7	4200.8	4201.0	4201.2	4201.3	4200.9	4200.2	4199.6	4198.9
MAX	4200.9	4200.8	4201.0	4200.9	4201.0	4201.2	4201.3	4201.4	4201.2	4200.6	4200.0	4199.2
MIN	4200.7	4200.6	4200.6	4200.6	4200.7	4200.9	4201.1	4201.1	4200.6	4199.9	4199.3	4198.7

WTR YR 1994 MEAN 4200.6 MAX 4201.4 MIN 4198.7

e Estimated

10010100 GREAT SALT LAKE NEAR SALINE, UT

LOCATION.--Lat 41°15'09", long 112°29'40", in SE¼NE¼NW¼ 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, gage datum.

GAGE.--Water-stage recorder on pier of boat harbor. Datum of gage, 4,189.80 ft above sea level.

REMARKS.--Wind effects may cause substantial changes in elevations, which are not shown in the published elevations. Samples for specific gravity and temperature were collected from water surface near the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4,210.95 ft Apr. 7-29, 1987; minimum, 4,192.65 ft Oct. 15, Nov. 1, 1966.

Date	Temperature, water (Deg. C)	Specific Gravity (20.0°C)	Percent Salinity
Oct. 6, 1993	23.0	1.212	27.9
Apr. 12, 1994	13.0	1.202	26.5
June 7	20.0	1.213	27.9

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4196.2	4196.5	4196.5	4196.8	4197.0	4197.2	4197.5	4197.7	4197.7	4197.4	4196.9	4196.5
2	4196.2	4196.4	4196.5	4196.8	4197.0	4197.2	4197.5	4197.6	4197.7	4197.4	4196.9	4196.5
3	4196.2	4196.4	4196.5	4196.8	4197.0	4197.3	4197.5	4197.7	4197.6	4197.3	4196.9	4196.5
4	4196.2	4196.6	4196.6	4196.8	4197.0	4197.3	4197.7	4197.7	4197.7	4197.2	4196.9	4196.5
5	4196.2	4196.5	4196.6	4197.0	4197.0	4197.4	4197.5	4197.7	4197.6	4197.3	4196.9	4196.5
6	4196.2	4196.4	4196.5	4197.0	4197.0	4197.4	4197.5	4197.8	4197.7	4197.2	4196.9	4196.4
7	4196.3	4196.4	4196.6	4196.8	4197.0	4197.4	4197.6	4197.8	4197.6	4197.2	4196.8	4196.4
8	4196.3	4196.4	4196.6	4196.8	4197.1	4197.4	4197.5	4197.7	4197.6	4197.2	4196.8	4196.4
9	4196.3	4196.5	4196.6	4196.8	4197.0	4197.3	4197.6	4197.7	4197.5	4197.2	4196.7	4196.5
10	4196.3	4196.5	4196.6	4196.8	4197.0	4197.3	4197.8	4197.7	4197.5	4197.2	4196.7	4196.5
11	4196.3	4196.5	4196.6	4196.8	4197.2	4197.5	4197.7	4197.7	4197.5	4197.2	4196.8	4196.5
12	4196.3	4196.5	4196.7	4196.8	4197.1	4197.5	4197.6	4197.7	4197.5	4197.2	4196.8	4196.4
13	4196.3	4196.5	4196.6	4196.8	4197.0	4197.4	4197.6	4197.8	4197.6	4197.2	4196.8	4196.4
14	4196.3	4196.6	4196.6	4196.8	4197.1	4197.3	4197.8	4197.7	4197.6	4197.1	4196.8	4196.4
15	4196.4	4196.5	4196.7	4196.9	4197.1	4197.4	4197.7	4197.7	4197.4	4197.1	4196.7	4196.4
16	4196.4	4196.5	4196.7	4196.9	4197.1	4197.3	4197.6	4197.8	4197.6	4197.1	4196.8	4196.4
17	4196.5	4196.5	4196.7	4196.9	4197.0	4197.4	4197.6	4197.7	4197.5	4197.1	4196.7	4196.3
18	4196.6	4196.6	4196.6	4196.9	4197.1	4197.3	4197.7	4197.7	4197.4	4197.1	4196.7	4196.3
19	4196.4	4196.5	4196.7	4196.9	4197.2	4197.4	4197.7	4197.7	4197.4	4197.1	4196.7	4196.3
20	4196.4	4196.5	4196.7	4196.9	4197.0	4197.4	4197.7	4197.7	4197.4	4197.1	4196.6	4196.3
21	4196.4	4196.5	4196.7	4196.9	4197.1	4197.3	4197.6	4197.6	4197.4	4197.0	4196.6	4196.3
22	4196.4	4196.5	4196.7	4196.9	4197.2	4197.5	4197.7	4197.6	4197.3	e4197.0	4196.7	4196.3
23	4196.4	4196.6	4196.8	4196.9	4197.1	4197.6	4197.7	4197.7	4197.4	e4197.0	4196.7	4196.3
24	4196.4	4196.6	4196.7	4197.0	4197.2	4197.5	4197.6	4197.7	4197.4	e4197.0	4196.6	4196.3
25	4196.5	4196.5	4196.7	4197.0	4197.2	4197.5	4197.7	4197.6	4197.4	e4197.0	4196.6	4196.3
26	4196.6	4196.5	4196.7	4197.1	4197.2	4197.6	4197.7	4197.5	4197.5	e4197.0	4196.6	4196.3
27	4196.4	4196.5	4196.7	4197.1	4197.2	4197.5	4197.6	4197.6	4197.4	e4197.0	4196.5	4196.3
28	4196.4	4196.5	4196.7	4197.1	4197.3	4197.5	4197.7	4197.6	4197.3	4197.0	4196.6	4196.3
29	4196.6	4196.5	4196.7	4197.1	---	4197.5	4197.8	4197.6	4197.4	4197.0	4196.5	4196.3
30	4196.4	4196.5	4196.8	4197.2	---	4197.5	4197.6	4197.6	4197.3	4197.0	4196.6	4196.5
31	4196.4	---	4196.8	4197.0	---	4197.5	---	4197.6	---	4196.9	4196.6	---
MEAN	4196.4	4196.5	4196.7	4196.9	4197.1	4197.4	4197.6	4197.7	4197.5	4197.1	4196.7	4196.4
MAX	4196.6	4196.6	4196.8	4197.2	4197.3	4197.6	4197.8	4197.8	4197.7	4197.4	4196.9	4196.5
MIN	4196.2	4196.4	4196.5	4196.8	4197.0	4197.2	4197.5	4197.5	4197.3	4196.9	4196.5	4196.3

WTR YR 1994 MEAN 4197.0 MAX 4197.8 MIN 4196.2

e Estimated

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE¼NW¼SE¼ 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.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,965 ft above sea level, from river-profile map. Prior to Oct. 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 June 6, 1986, gage height, 4.05 ft; maximum gage height, 4.28 ft June 19, 1983, 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 16	0100	*1,230	*6.04	May 31	0200	1,140	5.91

Minimum daily discharge, 22 ft³/s, Feb. 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	65	e53	e39	e35	e33	47	154	747	120	78	41
2	56	51	e58	e49	e36	e35	46	147	694	105	80	41
3	59	60	e46	e46	e38	e37	51	159	708	99	71	44
4	56	59	e52	e48	e36	e37	51	165	705	119	65	46
5	55	55	e49	e50	e41	e37	47	253	667	159	53	42
6	67	48	e43	e44	e44	e35	45	349	603	154	48	42
7	73	58	49	e45	e49	e34	46	442	518	151	46	46
8	81	60	44	e48	e44	33	44	449	438	148	49	42
9	77	59	46	e48	e38	37	46	496	394	147	87	40
10	70	59	46	e42	43	39	44	607	381	143	73	39
11	74	58	47	e46	40	39	44	715	389	150	64	38
12	92	57	47	e48	44	37	48	811	382	162	58	42
13	82	54	e46	e52	39	38	54	887	349	157	55	71
14	81	51	e42	e50	e30	40	60	939	340	143	57	66
15	81	56	e40	e45	e45	41	61	908	302	124	55	64
16	76	61	e44	e46	e47	43	79	968	275	121	51	56
17	74	56	e45	e48	e42	45	108	710	260	118	47	53
18	79	51	e33	e45	e45	41	131	534	242	117	49	49
19	73	e54	e36	e42	e37	45	163	510	233	121	89	48
20	70	e48	e34	e38	e37	41	192	462	228	118	68	48
21	66	e53	e34	e36	e33	42	240	420	241	103	67	47
22	70	e46	e32	e36	e26	45	342	468	250	82	62	45
23	66	52	e33	e46	e23	40	417	559	213	83	58	44
24	64	e40	e35	e56	e22	41	342	643	193	79	54	43
25	64	e33	e34	e56	e33	45	271	757	175	77	52	43
26	59	e27	e36	e52	e35	40	241	766	161	73	49	42
27	55	e38	e40	e47	e34	40	199	678	150	75	50	41
28	62	e52	e46	e43	e35	41	177	967	138	76	53	41
29	64	e58	e38	e43	---	41	162	890	127	75	48	45
30	50	e62	e36	e41	---	42	149	915	122	71	45	62
31	65	---	e39	e37	---	44	---	961	---	85	42	---
TOTAL	2117	1581	1303	1412	1051	1228	3947	18689	10625	3555	1823	1411
MEAN	68.3	52.7	42.0	45.5	37.5	39.6	132	603	354	115	58.8	47.0
MAX	92	65	58	56	49	45	417	968	747	162	89	71
MIN	50	27	32	36	22	33	44	147	122	71	42	38
AC-FT	4200	3140	2580	2800	2080	2440	7830	37070	21070	7050	3620	2800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1994, BY WATER YEAR (WY)

MEAN	62.3	54.0	46.4	41.7	40.0	42.9	112	597	853	290	93.3	71.6
MAX	208	106	94.9	72.4	64.3	69.0	316	1044	1990	933	244	229
(WY)	1983	1984	1984	1984	1984	1986	1946	1984	1986	1975	1965	1983
MIN	30.8	32.5	27.7	29.6	25.3	26.0	37.2	162	204	67.4	37.5	23.9
(WY)	1959	1955	1960	1991	1964	1964	1944	1977	1992	1961	1954	1956

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1943 - 1994	
ANNUAL TOTAL	86267		48742			
ANNUAL MEAN	236		134		192	
HIGHEST ANNUAL MEAN					335	1986
LOWEST ANNUAL MEAN					81.5	1977
HIGHEST DAILY MEAN	1890	May 22	968	May 16	2680	Jun 4 1986
LOWEST DAILY MEAN	23	Feb 13	22	Feb 24	18	Jan 3 1960
ANNUAL SEVEN-DAY MINIMUM	24	Feb 11	29	Feb 21	21	Dec 28 1959
ANNUAL RUNOFF (AC-FT)	171100		96680		139300	
10 PERCENT EXCEEDS	868		385		606	
50 PERCENT EXCEEDS	61		53		58	
90 PERCENT EXCEEDS	28		37		33	

e Estimated

10015700 SULPHUR CREEK ABOVE RESERVOIR, BELOW LA CHAPELLE CREEK, NEAR EVANSTON, WY

LOCATION.--Lat 41°07'45", long 110°48'21", in NE¼SE¼SW¼ sec. 2, T. 13 N., R. 119 W., Uinta County, Hydrologic Unit 16010101, on right bank 0.2 mi downstream from La Chapelle Creek, 3.3 mi upstream from Sulphur Creek Dam, and 12.8 mi southeast of Evanston.

DRAINAGE AREA.--64.2 mi².

PERIOD OF RECORD.--October 1957 to current year. Monthly discharge only for October and November 1957, published in WSP 1734. October 1957 to October 1987 not equivalent because of inflow between sites. October 1987 to October 1989 at present site at different datum.

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

GAGE.--Water-stage recorder. Elevation of gage is 7,240 ft above sea level, from topographic map. Prior to October 7, 1987 at site 1.3 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,400 ft³/s June 1, 1983, gage height, 9.10 ft, from rating curve extended above 1,200 ft³/s on basis of slope-area measurement of peak flow. Flood was result of released water from temporary blockage of upstream road culverts; no flow at times some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 74 ft³/s Apr. 12, gage height, 6.51 ft; no flow several days in August and September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	e4.4	e5.6	6.4	6.7	11	24	17	5.8	.77	.40	.00
2	1.6	e4.1	e5.6	6.2	6.3	13	24	15	5.2	.74	.35	.06
3	1.6	e4.1	e5.4	6.3	6.3	14	25	20	4.6	.73	.30	.06
4	1.4	e4.9	e5.9	6.7	6.5	16	25	24	3.7	.63	.20	.00
5	1.3	e5.0	e6.2	7.3	6.5	22	26	24	3.5	.60	.10	.00
6	1.5	e3.9	e5.8	7.3	6.5	30	25	33	3.2	.50	.04	.00
7	1.9	e4.0	e5.6	7.6	6.7	27	24	43	2.4	.74	.02	.01
8	2.9	e4.1	e5.6	7.6	7.2	25	21	37	2.3	.72	.04	.02
9	3.4	e4.2	e6.2	7.6	7.4	23	21	33	2.4	.64	.18	.00
10	3.3	e4.7	e6.5	7.6	7.8	22	23	49	2.4	.59	.24	.00
11	3.4	e4.7	e6.7	7.6	8.9	25	29	49	2.7	.54	.19	.00
12	4.8	e4.8	e6.0	8.0	9.0	21	45	41	3.1	.52	.21	.00
13	4.4	e5.3	e6.6	8.1	9.1	23	34	47	3.2	.44	.30	.00
14	7.2	e4.7	6.4	8.6	9.4	36	24	40	2.2	.49	.43	.04
15	7.3	e4.8	6.0	8.8	9.8	50	19	26	6.6	.50	.50	.07
16	7.3	e5.0	5.9	8.8	10	53	19	29	8.4	.48	.58	.07
17	6.8	e4.9	5.9	8.8	11	52	21	17	4.6	.42	.42	.06
18	9.1	e4.6	5.9	8.5	11	38	23	12	2.5	.34	.07	.06
19	9.2	e4.3	5.6	8.4	11	41	22	12	2.0	.30	.07	.06
20	6.7	e4.1	5.6	8.1	11	33	23	11	2.7	.15	.07	.05
21	5.6	e4.4	5.3	7.6	11	37	25	12	2.7	.12	.06	.06
22	5.6	e4.9	5.3	6.9	11	43	32	14	3.9	.09	.02	.06
23	5.5	e4.6	5.3	6.9	11	26	42	15	4.1	.16	.00	.05
24	5.0	e4.4	5.3	7.7	10	32	33	15	2.8	.30	.00	.05
25	4.6	e5.6	5.3	8.4	10	34	25	15	2.3	.47	.00	.04
26	4.4	e4.5	5.3	8.1	11	34	19	12	1.7	.49	.00	.05
27	4.2	e3.9	5.8	8.1	11	25	16	9.7	1.2	.21	.00	.05
28	4.4	e4.8	6.0	7.8	11	22	16	21	1.1	.19	.00	.04
29	e4.5	e6.0	6.2	7.3	---	23	19	14	1.1	.41	.01	.03
30	e4.0	e6.4	6.2	7.2	---	21	20	6.8	.88	.52	.00	.16
31	e4.1	---	6.4	7.2	---	23	---	4.3	---	.38	.00	---
TOTAL	138.7	140.1	181.4	237.5	254.1	895	744	717.8	95.28	14.18	4.80	1.15
MEAN	4.47	4.67	5.85	7.66	9.07	28.9	24.8	23.2	3.18	.46	.15	.038
MAX	9.2	6.4	6.7	8.8	11	53	45	49	8.4	.77	.58	.16
MIN	1.3	3.9	5.3	6.2	6.3	11	16	4.3	.88	.09	.00	.00
AC-FT	275	278	360	471	504	1780	1480	1420	189	28	9.5	2.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1994, BY WATER YEAR (WY)

MEAN	1.87	3.67	3.48	3.30	3.46	22.2	36.9	49.0	19.1	4.17	1.61	.56
MAX	6.77	11.8	6.31	7.66	9.07	52.7	64.6	154	33.0	14.6	6.03	2.12
(WY)	1992	1992	1992	1994	1994	1989	1988	1993	1991	1993	1991	1991
MIN	.18	.59	1.17	1.11	1.18	2.80	17.3	11.4	3.18	.18	.017	.000
(WY)	1991	1991	1991	1991	1991	1991	1992	1992	1994	1988	1988	1988

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1988 - 1994	
ANNUAL TOTAL	9370.35		3424.01			
ANNUAL MEAN	25.7		9.38		12.5	
HIGHEST ANNUAL MEAN					25.1	1993
LOWEST ANNUAL MEAN					7.09	1990
HIGHEST DAILY MEAN	394	May 22	53	Mar 16	394	May 22 1993
LOWEST DAILY MEAN	.95	Sep 12	.00	Aug 23	.00	Jul 15 1988
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 8	.00	Aug 23	.00	Jul 15 1988
ANNUAL RUNOFF (AC-FT)	18590		6790		9040	
10 PERCENT EXCEEDS	64		25		37	
50 PERCENT EXCEEDS	5.4		5.6		3.2	
90 PERCENT EXCEEDS	1.9		.06		.07	

e Estimated

10016900 BEAR RIVER AT EVANSTON, WY

LOCATION.--Lat 41°16'13", long 110°57'47", in NE¼ NW¼ NW¼ 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).

GAGE.--Water-stage recorder. Elevation of gage is 6,730 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: May 26, 27. Records good. Natural flow of stream affected by storage reservoirs, diversions for irrigation, and return flow from irrigated areas. Results of discharge measurements, in cubic feet per second, made during the period when the station was not in operation, are given below:

Oct. 6 . . . 27.6
Mar. 23 . . . 235

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	237	263	719	76	38	11
2	---	---	---	---	---	---	221	244	604	76	36	11
3	---	---	---	---	---	---	165	248	565	70	30	11
4	---	---	---	---	---	---	204	264	577	57	24	7.8
5	---	---	---	---	---	---	180	287	541	61	19	6.5
6	---	---	---	---	---	---	167	393	479	65	12	6.1
7	---	---	---	---	---	---	171	534	401	66	9.8	6.5
8	---	---	---	---	---	---	155	554	337	63	9.9	9.7
9	---	---	---	---	---	---	157	577	283	60	16	11
10	---	---	---	---	---	---	177	734	235	62	29	8.2
11	---	---	---	---	---	---	185	837	200	61	36	7.8
12	---	---	---	---	---	---	237	932	204	58	24	9.3
13	---	---	---	---	---	---	306	1020	182	52	17	11
14	---	---	---	---	---	---	276	1170	157	46	21	22
15	---	---	---	---	---	---	257	1020	144	26	18	21
16	---	---	---	---	---	---	251	1150	122	24	19	26
17	---	---	---	---	---	---	280	909	112	22	21	21
18	---	---	---	---	---	---	324	675	105	20	20	15
19	---	---	---	---	---	---	351	615	89	20	21	16
20	---	---	---	---	---	---	293	547	87	24	29	16
21	---	---	---	---	---	---	352	472	143	25	27	16
22	---	---	---	---	---	---	405	452	167	25	28	17
23	---	---	---	---	---	---	610	488	114	24	22	15
24	---	---	---	---	---	---	515	527	93	23	22	12
25	---	---	---	---	---	---	404	626	97	19	19	12
26	---	---	---	---	---	---	351	629	81	12	16	9.0
27	---	---	---	---	---	---	290	701	60	17	13	8.2
28	---	---	---	---	---	---	291	756	63	21	12	9.7
29	---	---	---	---	---	---	270	778	84	19	14	11
30	---	---	---	---	---	---	244	752	77	21	12	14
31	---	---	---	---	---	---	---	767	---	24	13	---
TOTAL	---	---	---	---	---	---	8326	19921	7122	1239	647.7	377.8
MEAN	---	---	---	---	---	---	278	643	237	40.0	20.9	12.6
MAX	---	---	---	---	---	---	610	1170	719	76	38	26
MIN	---	---	---	---	---	---	155	244	60	12	9.8	6.1
AC-FT	---	---	---	---	---	---	16510	39510	14130	2460	1280	749

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1994, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	331	740	711	153	68.1	60.4
MAX	---	---	---	---	---	---	602	1291	1890	411	181	225
(WY)	---	---	---	---	---	---	1985	1986	1986	1984	1984	1984
MIN	---	---	---	---	---	---	160	330	121	40.0	16.4	11.8
(WY)	---	---	---	---	---	---	1991	1990	1992	1994	1988	1988

SUMMARY STATISTICS	FOR 1994 WATER YEAR*		WATER YEARS 1984 - 1994*	
HIGHEST DAILY MEAN	1170	May 14	3160	May 16 1984
LOWEST DAILY MEAN	6.1	Sep 6	3.8	Sep 30 1992
ANNUAL SEVEN-DAY MINIMUM	--		5.3	Aug 18 1988
INSTANTANEOUS PEAK FLOW	1330	May 14	3680	May 16 1984
INSTANTANEOUS PEAK STAGE	4.47	May 14	7.35	May 16 1984
10 PERCENT EXCEEDS	--		943	
50 PERCENT EXCEEDS	--		153	
90 PERCENT EXCEEDS	--		21	

* During period of operation.

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NE¼NW¼NW¼ 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.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,455 ft above sea level, from river-profile map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversion for irrigation of about 43,500 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft³/s June 2, 1983, gage height, 6.17 ft; minimum, no flow several days during August and September 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,190 ft³/s May 14, gage height, 4.14 ft; minimum daily discharge, 0.24 ft³/s Sept. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	68	e53	e62	e42	e56	159	178	611	14	3.9	3.0
2	39	81	e56	e70	e42	e62	162	181	481	13	7.5	2.7
3	38	78	e53	e64	e44	e78	133	177	414	11	7.4	1.4
4	33	82	e74	e68	e44	e98	142	215	408	10	5.3	.98
5	35	92	e62	e70	e49	e115	141	198	380	9.4	4.8	.94
6	39	87	e59	e66	e56	e110	127	280	340	9.4	4.2	1.2
7	42	70	e58	e64	e52	e100	122	405	283	9.0	3.3	.83
8	65	e64	e54	e66	e47	e96	120	472	245	8.8	2.8	.38
9	106	e60	e74	e62	e49	e96	110	572	205	8.4	2.5	.32
10	137	e56	e56	e63	e55	e90	131	688	167	7.0	2.9	.28
11	137	e52	e92	e66	e49	e105	142	808	125	5.8	3.0	.28
12	159	e58	e80	e68	e42	e130	174	837	95	5.5	3.0	.26
13	170	e56	e72	e65	e43	e167	243	881	98	5.6	3.0	.26
14	166	e51	e66	e58	e45	e170	241	1030	82	5.5	2.7	.24
15	175	e47	e62	e54	e46	151	222	959	69	6.1	2.3	.32
16	129	e48	e64	e57	e51	195	204	987	64	3.8	2.4	.38
17	110	e54	e62	e58	e58	267	221	891	49	3.3	1.2	.54
18	106	e56	e54	e61	e58	240	256	647	45	3.1	.68	2.5
19	112	e50	e52	e56	e62	242	285	529	41	2.7	.64	3.2
20	104	e42	e51	e54	e68	241	265	452	35	1.8	.67	3.3
21	100	e40	e48	e56	e79	209	273	367	32	1.6	.67	3.7
22	92	e48	e48	e59	e84	245	315	291	40	2.3	.75	4.1
23	88	e47	e49	e64	e70	226	498	309	57	3.1	1.9	4.3
24	86	e43	e52	e64	e72	176	489	341	30	2.7	2.7	1.3
25	83	e33	e50	e64	e72	185	393	408	26	2.3	.97	.65
26	80	e36	e55	e60	e66	178	316	461	24	3.1	.67	1.8
27	77	e40	e62	e56	e66	159	258	441	20	3.2	.77	1.1
28	72	e47	e74	e52	e59	142	211	489	16	3.9	2.0	1.2
29	80	e51	e64	e52	---	146	203	650	14	4.1	2.8	.65
30	80	e56	e58	e52	---	144	195	589	15	3.5	2.5	.50
31	70	---	e56	e45	---	145	---	585	---	3.4	2.3	---
TOTAL	2848	1693	1870	1876	1570	4764	6751	16318	4511	176.4	82.22	42.61
MEAN	91.9	56.4	60.3	60.5	56.1	154	225	526	150	5.69	2.65	1.42
MAX	175	92	92	70	84	267	498	1030	611	14	7.5	4.3
MIN	33	33	48	45	42	56	110	177	14	1.6	.64	.24
AC-FT	5650	3360	3710	3720	3110	9450	13390	32370	8950	350	163	85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1994, BY WATER YEAR (WY)

MEAN	77.0	72.2	70.9	67.5	84.1	161	348	826	846	179	50.9	52.2
MAX	437	198	181	147	312	627	671	1957	2564	870	340	288
(WY)	1983	1974	1984	1984	1986	1986	1969	1984	1986	1975	1983	1983
MIN	3.03	6.06	7.21	6.76	13.8	26.8	77.7	104	54.6	4.84	2.26	.49
(WY)	1965	1989	1989	1989	1993	1977	1977	1977	1992	1988	1988	1988

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1962 - 1994	
ANNUAL TOTAL	101801		42502.23			
ANNUAL MEAN	279		116		236	
HIGHEST ANNUAL MEAN					583	1986
LOWEST ANNUAL MEAN					45.1	1977
HIGHEST DAILY MEAN	2420	May 23	1030	May 14	3900	Jun 2 1983
LOWEST DAILY MEAN	10	Jan 5	.24	Sep 14	.00	Aug 23 1988
ANNUAL SEVEN-DAY MINIMUM	12	Jan 25	.28	Sep 9	.00	Aug 30 1988
ANNUAL RUNOFF (AC-FT)	201900		84300		171300	
10 PERCENT EXCEEDS	825		287		694	
50 PERCENT EXCEEDS	74		59		82	
90 PERCENT EXCEEDS	14		2.3		9.0	

e Estimated

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'10", long 111°00'55", in SE¼NW¼NW¼ sec. 32, T. 18 N., R. 120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, in gate house at Woodruff Narrows Dam on Bear River, 5.6 mi upstream from Wyoming-Utah State line, and 7.7 mi east of Woodruff.

DRAINAGE AREA.--784 mi².

PERIOD OF RECORD.--October 1965 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 6,405 ft above sea level, from levels by Bureau of Reclamation.

REMARKS.--Records fair. Reservoir formed by earthfill, rock-faced dam. Storage began Jan. 5, 1962. Total capacity, 28,000 acre-ft below spillway crest. Total capacity increased to 57,300 in 1980. Elevation of spillway is 6,454.50 ft; gage height, 50.4 ft. Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 64,310 acre-ft June 2, 1983, gage height, 53.5 ft; minimum observed, 880 acre-ft Sept. 15-25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 60,780 acre-ft May 17, gage height, 51.9 ft; minimum contents, 7,220 acre-ft Sept. 30, gage height, 17.2 ft.

CAPACITY TABLE (GAGE-HEIGHT, IN FEET, AND TOTAL CONTENTS, IN ACRE-FEET)

17.0	7,090	35.0	27,620
18.0	7,900	40.0	36,160
20.0	9,520	45.0	45,660
25.0	14,390	50.0	56,400
30.0	20,280	52.0	60,920

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24570	28130	30500	33010	e35200	36680	45280	56660	49510	e17200	9350	8660
2	24570	28250	30560	33020	e35300	36750	45530	56900	48860	e16800	9320	8640
3	24560	28310	30780	33050	e35300	36930	45900	56990	48080	e16500	9230	8580
4	24540	28540	30910	33090	e35400	36940	46260	57470	47370	e16100	9230	8580
5	24660	28720	30970	33230	e35400	37100	46500	58190	46150	e15600	9230	8570
6	24710	28810	31070	33520	e35490	e37300	46720	58290	e45500	e15300	9180	8500
7	24840	e29000	31100	33620	e35490	e37500	46970	57740	e44300	e14900	9140	8500
8	24260	e29100	31120	e33700	e35500	e37600	47130	58020	e43000	e14500	9150	8490
9	24140	e29100	31180	33700	e35500	e37800	47280	58250	e41800	e14200	9140	8500
10	24280	e29200	31250	33780	e35500	e38000	47710	58430	e40500	e13700	9150	8500
11	24530	e29300	31290	33860	e35500	e38400	47850	59220	e39500	e13300	9140	8580
12	24780	e29300	31420	33910	e35500	e38500	48110	59410	38840	e12900	9140	8580
13	25090	e29400	31540	33960	e35550	e38800	48450	59630	37460	e12500	9080	8580
14	25370	e29400	31700	33990	e35600	e39200	48900	60140	35830	e12200	9070	8580
15	25690	e29500	31860	34110	e35600	e39400	49270	60440	e34700	e11700	9060	8580
16	25970	e29500	31940	34180	e35700	e39800	49700	60550	32670	e11400	9060	8580
17	26300	e29500	32010	34380	e35700	e40000	50040	60780	28850	e11000	9070	8580
18	26520	e29600	e32200	34450	e35800	40650	50410	60720	28450	e10500	8990	8660
19	26710	e29600	e32300	34490	e35850	41200	50900	60480	28130	e10200	8980	8660
20	26870	e29700	e32350	34520	e35900	41720	51360	60230	25650	e9800	8980	8660
21	27030	e29800	e32400	34570	e35950	42110	51620	59950	25140	9520	8920	7840
22	27130	e29900	e32400	34610	e36000	43010	52120	59400	23630	9520	8900	7570
23	27220	e29900	e32500	34540	e36000	43330	52880	58880	22230	9520	8890	7500
24	27310	e30000	e32500	34610	36170	43320	54050	57220	21700	9440	8850	7480
25	27420	e30000	e32600	34680	36260	43500	54900	55630	20320	9440	8820	7520
26	27580	e30100	e32600	34710	36370	44000	55400	54170	19590	9440	8820	7470
27	27700	e30200	e32700	34770	36490	44450	55950	53060	19040	9430	8790	7430
28	27760	e30300	e32700	34920	36580	44630	56100	51920	e18500	9440	8740	7380
29	27910	e30300	e32800	35020	---	44760	56310	51130	e18000	9440	8740	7300
30	27990	30390	e32900	e35100	---	44860	56550	50480	e17600	9420	8710	7220
31	28060	---	e32900	e35100	---	45000	---	49940	---	9350	8660	---
MAX	28060	30390	32900	35100	36580	45000	56550	60780	49510	17200	9350	8660
MIN	24140	28130	30500	33010	35200	36680	45280	49940	17600	9350	8660	7220
(#)	35.3	36.6	--	--	40.2	44.7	50.1	47.1	--	19.8	18.9	17.2
(*)	+3500	+2330	+2510	+2200	+1480	+8420	+11550	-6610	-32340	-8250	-690	-1440

CAL YR 1993 (*) +27680
WTR YR 1994 (*) -17340

(#) Elevation, in feet, at end of month.
(*) Change in contents.
(e) No gage reading, contents interpolated.

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'20", long 111°00'50", in NW¼NW¼ 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.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.96 ft above sea level (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to Sept. 26, 1962, at site 175 ft upstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. 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 June 2, 1983, gage height, 8.26 ft; no flow July 4, 5, 1962, Aug. 30, 31, Sept. 1, 2, 6, 7, 1979, Oct. 30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,440 ft³/s May 23, gage height, 6.21 ft; minimum daily discharge, 6.9 ft³/s Aug. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	32	34	e37	e35	35	34	42	915	558	12	9.9
2	30	32	34	e37	e34	35	33	71	891	629	11	13
3	30	32	34	e37	e35	35	33	119	878	662	9.4	13
4	30	32	34	e37	e36	35	33	162	874	433	8.1	13
5	29	32	33	e37	e37	36	33	194	873	61	7.2	12
6	30	32	33	e36	e37	35	33	220	868	46	7.4	12
7	30	33	34	e36	e38	35	33	282	866	46	8.7	13
8	30	33	33	e36	e38	35	33	389	862	26	8.5	13
9	30	33	33	e36	38	36	32	468	857	12	8.5	13
10	30	33	33	e36	38	35	32	572	852	11	8.9	13
11	31	33	33	e35	37	34	31	713	844	11	8.8	13
12	31	33	34	e35	38	34	32	817	839	10	8.9	13
13	31	33	34	e35	38	34	31	889	832	10	11	13
14	31	33	34	e35	38	34	31	951	826	10	12	13
15	31	33	34	e36	38	34	31	1040	818	10	12	14
16	31	33	34	e37	37	34	32	1030	810	9.9	12	14
17	31	33	35	e36	37	34	33	1060	798	12	12	14
18	31	33	35	e36	37	34	32	890	790	13	12	14
19	32	33	35	e36	37	34	32	712	779	13	12	14
20	32	33	35	e35	36	34	33	599	766	14	12	14
21	31	33	35	e36	37	34	33	509	760	14	12	14
22	31	33	35	e37	37	34	33	432	693	13	11	16
23	32	33	35	e36	37	34	34	869	634	13	11	21
24	32	33	35	e36	37	34	35	1130	626	13	11	22
25	33	33	35	e36	36	34	35	1100	617	13	11	22
26	32	33	35	e35	36	34	36	1100	608	14	11	22
27	32	33	35	e36	35	34	36	1090	599	13	11	22
28	32	33	36	e35	36	34	37	1090	589	12	11	22
29	32	33	35	e36	---	33	37	1030	581	12	7.5	22
30	32	34	36	e37	---	33	38	916	570	12	7.1	20
31	33	---	e37	e36	---	33	---	914	---	12	6.9	---
TOTAL	958	985	1067	1117	1030	1063	1001	21400	23115	2737.9	312.9	463.9
MEAN	30.9	32.8	34.4	36.0	36.8	34.3	33.4	690	770	88.3	10.1	15.5
MAX	33	34	37	37	38	36	38	1130	915	662	12	22
MIN	25	32	33	35	34	33	31	42	570	9.9	6.9	9.9
AC-FT	1900	1950	2120	2220	2040	2110	1990	42450	45850	5430	621	920

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1994, BY WATER YEAR (WY)

MEAN	57.4	56.2	47.0	45.3	49.6	102	287	790	988	277	78.2	53.4
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	.12	4.28	4.37	4.71	4.70	.34	27.8	396	20.0	3.91	3.65
(WY)	1990	1981	1978	1978	1978	1978	1977	1977	1977	1966	1979	1979

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1962 - 1994	
ANNUAL TOTAL	96562		55250.7			
ANNUAL MEAN	265		151		236	
HIGHEST ANNUAL MEAN					509	1983
LOWEST ANNUAL MEAN					44.3	1977
HIGHEST DAILY MEAN	1640	Jun 12	1130	May 24	3630	Jun 3 1983
LOWEST DAILY MEAN	13	Jan 1	6.9	Aug 31	.00	Jul 4 1962
ANNUAL SEVEN-DAY MINIMUM	13	Jan 1	8.2	Aug 4	.07	Nov 26 1980
ANNUAL RUNOFF (AC-FT)	191500		109600		171100	
10 PERCENT EXCEEDS	1160		762		790	
50 PERCENT EXCEEDS	35		34		40	
90 PERCENT EXCEEDS	15		12		8.5	

e Estimated

10023000 BIG CREEK NEAR RANDOLPH, UT

LOCATION.--Lat 41°36'36", long 111°15'12", in NW¼NW¼NE¼ 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 sea level, 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 good except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 337 ft³/s July 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 17	1500	a *24	*4.98				

(a) maximum recorded.

Minimum daily discharge, 4.2 ft³/s Nov. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	e6.0	e6.6	e6.5	e5.6	e8.0	7.7	e11	10	6.7	5.5	5.7
2	7.6	e7.8	e6.4	e7.2	e5.6	e7.5	7.7	10	10	6.8	5.6	5.8
3	7.5	e7.0	e6.0	e7.0	e5.6	e7.6	7.5	11	9.8	6.7	5.4	5.7
4	7.5	e7.0	e6.9	e7.4	e5.8	e8.2	7.9	11	9.4	6.6	5.4	5.6
5	7.5	e7.0	e6.0	e7.4	e6.0	e8.8	7.6	12	9.2	6.7	5.1	5.9
6	7.8	e5.8	e6.6	e7.1	e6.5	e8.2	7.4	13	9.1	6.8	5.1	5.9
7	8.3	e5.2	e6.0	e6.0	e7.0	e8.0	7.4	13	9.1	6.8	5.2	6.0
8	8.2	e5.6	e6.4	e7.0	e8.0	e7.2	7.8	13	9.2	6.6	5.4	5.8
9	8.9	6.9	e7.0	e6.9	e7.1	e7.3	7.5	13	9.1	6.1	5.9	5.6
10	8.3	7.3	e6.7	e7.0	e6.8	e8.0	8.2	14	9.0	5.9	5.8	5.6
11	8.3	7.4	e7.3	e7.4	e6.2	e8.6	7.6	14	8.9	5.9	5.8	5.8
12	8.6	7.1	e7.4	e7.8	e6.6	e8.0	7.5	14	8.9	5.7	5.7	6.1
13	8.0	5.8	e7.0	e7.2	e7.2	e7.2	7.9	14	8.9	5.6	5.6	6.4
14	8.1	4.2	e7.0	e6.8	e7.0	e7.8	9.0	14	9.1	5.6	5.7	6.3
15	8.4	4.9	e6.9	e7.2	e7.2	e8.9	9.2	14	9.9	5.5	5.5	6.3
16	8.1	e7.6	e7.0	e7.0	e7.4	e9.2	9.0	14	9.3	5.2	5.5	6.1
17	8.1	12	e7.4	e6.4	e8.1	e8.4	9.5	14	8.7	5.3	5.3	5.9
18	8.0	9.8	e6.4	e6.6	e7.9	e7.8	10	13	8.6	5.3	5.4	5.9
19	7.7	7.4	e6.6	e6.4	e7.6	e8.0	11	13	8.5	4.9	5.8	5.9
20	7.6	7.6	e6.2	e6.2	e7.1	e8.4	12	12	8.3	4.9	6.1	6.0
21	7.5	e7.8	e5.6	e5.9	e7.2	e8.2	12	12	8.7	4.9	5.7	5.9
22	7.6	e7.0	e5.8	e5.8	e7.3	e7.8	12	11	8.7	5.2	5.7	5.8
23	7.5	e7.4	e5.6	e6.4	e6.8	8.1	13	11	7.9	5.4	5.6	5.8
24	7.5	e6.4	e5.6	e7.2	e6.0	8.7	13	11	7.9	5.3	5.5	5.7
25	7.4	e5.2	e5.7	e7.7	e5.8	8.4	13	e12	7.9	5.1	5.2	5.6
26	7.3	e5.5	e5.9	e7.0	e6.2	8.4	13	e12	7.3	5.0	5.2	5.5
27	7.5	e5.8	e6.2	e6.7	e7.0	8.1	12	e11	7.4	5.2	5.8	5.5
28	7.5	e6.0	e6.4	e6.3	e7.8	8.1	11	e11	7.5	5.3	6.2	5.4
29	7.5	e5.6	e6.2	e6.2	---	8.0	11	e11	7.1	5.0	5.7	5.8
30	e7.0	e6.2	e6.1	e6.2	---	7.9	e11	10	6.8	5.0	5.5	6.3
31	e6.0	---	e6.2	e5.8	---	7.9	---	11	---	5.3	5.6	---
TOTAL	240.2	202.3	199.1	209.7	190.4	250.7	290.4	380	260.2	176.3	172.5	175.6
MEAN	7.75	6.74	6.42	6.76	6.80	8.09	9.68	12.3	8.67	5.69	5.56	5.85
MAX	8.9	12	7.4	7.8	8.1	9.2	13	14	10	6.8	6.2	6.4
MIN	6.0	4.2	5.6	5.8	5.6	7.2	7.4	10	6.8	4.9	5.1	5.4
AC-FT	476	401	395	416	378	497	576	754	516	350	342	348

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1994, BY WATER YEAR (WY)

MEAN	11.5	10.6	9.55	8.64	8.56	9.48	15.1	29.0	21.0	14.9	12.5	11.5
MAX	26.3	25.9	23.7	23.4	22.6	22.6	42.3	95.4	62.2	40.3	31.8	28.4
(WY)	1952	1987	1987	1987	1987	1987	1951	1952	1952	1950	1950	1952
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

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1950 - 1994	
ANNUAL TOTAL	3463.7		2747.4			
ANNUAL MEAN	9.49		7.53		13.6	
HIGHEST ANNUAL MEAN					32.1	1952
LOWEST ANNUAL MEAN					3.24	1992
HIGHEST DAILY MEAN	69	May 17	14	May 10	140	May 18 1950
LOWEST DAILY MEAN	2.4	Jan 5	4.2	Nov 14	1.0	Aug 5 1992
ANNUAL SEVEN-DAY MINIMUM	2.6	Jan 3	5.1	Jul 16	1.1	Aug 8 1992
ANNUAL RUNOFF (AC-FT)	6870		5450		9830	
10 PERCENT EXCEEDS	19		11		26	
50 PERCENT EXCEEDS	7.4		7.1		10	
90 PERCENT EXCEEDS	2.9		5.5		3.7	

e Estimated

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SE¼SE¼ 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.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,185 ft above sea level, from river-profile map. Oct. 31, 1941 to Nov. 30, 1943, at site 200 ft downstream at different datum.

REMARKS.--Records good, except for estimated daily discharges, which are poor. 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 recorded, 0.24 ft³/s Apr. 26, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 197 ft³/s July 11; minimum daily discharge, 16 ft³/s Sept. 24, 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e116	59	91	104	51	19
2	---	---	---	---	---	---	e117	57	86	94	49	19
3	---	---	---	---	---	---	e117	57	110	87	48	18
4	---	---	---	---	---	---	e118	57	101	83	46	17
5	---	---	---	---	---	---	119	57	138	81	43	17
6	---	---	---	---	---	---	115	64	140	79	44	19
7	---	---	---	---	---	---	113	69	139	149	48	24
8	---	---	---	---	---	---	112	53	130	142	47	19
9	---	---	---	---	---	---	110	52	121	164	45	17
10	---	---	---	---	---	---	111	74	120	153	44	17
11	---	---	---	---	---	---	117	102	92	197	42	17
12	---	---	---	---	---	---	120	101	82	172	42	17
13	---	---	---	---	---	---	118	116	82	153	41	18
14	---	---	---	---	---	---	114	145	88	171	41	18
15	---	---	---	---	---	---	113	172	122	137	39	19
16	---	---	---	---	---	---	110	187	140	117	38	18
17	---	---	---	---	---	---	104	171	143	99	38	19
18	---	---	---	---	---	---	99	151	143	87	37	18
19	---	---	---	---	---	---	97	140	148	75	30	18
20	---	---	---	---	---	---	93	144	141	67	25	17
21	---	---	---	---	---	---	67	117	110	60	24	17
22	---	---	---	---	---	---	51	70	137	56	25	17
23	---	---	---	---	---	---	60	56	146	51	26	17
24	---	---	---	---	---	---	60	48	149	48	24	16
25	---	---	---	---	---	---	61	44	135	46	23	16
26	---	---	---	---	---	---	64	43	111	43	23	20
27	---	---	---	---	---	---	63	49	106	41	23	20
28	---	---	---	---	---	---	60	55	109	38	23	19
29	---	---	---	---	---	---	62	81	111	38	22	19
30	---	---	---	---	---	---	62	102	108	38	22	20
31	---	---	---	---	---	---	---	98	---	45	22	---
TOTAL	---	---	---	---	---	---	2843	2791	3579	2915	1095	546
MEAN	---	---	---	---	---	---	94.8	90.0	119	94.0	35.3	18.2
MAX	---	---	---	---	---	---	120	187	149	197	51	24
MIN	---	---	---	---	---	---	51	43	82	38	22	16
AC-FT	---	---	---	---	---	---	5640	5540	7100	5780	2170	1080

e Estimated

10032000 SMITHS FORK NEAR BORDER, WY

LOCATION.--Lat 42°17'36", long 110°52'18", in NE¼SW¼SW¼ 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 Hobble 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 sea level, from topographic map. Prior to Oct. 16, 1945, at site 1.2 mi downstream at different datum. Oct. 16, 1945 to Nov. 1986 at site 0.4 mi downstream at different datum.

REMARKS.--Records good, 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 June 4, 1986, gage height, 5.66 ft; minimum, 21 ft³/s Mar. 29, 1975, Jan. 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 455 ft³/s May 14, gage height, 3.13 ft; minimum daily discharge, 32 ft³/s Dec. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	98	e37	e66	e62	50	78	150	285	120	80	73
2	101	95	38	e73	e58	61	80	145	282	104	80	72
3	99	96	39	61	e62	63	83	152	270	99	76	75
4	98	96	34	56	e64	65	86	156	258	95	74	73
5	97	92	e33	54	e74	66	79	173	248	94	75	71
6	98	98	e32	e52	e72	64	81	199	229	96	72	71
7	99	103	e34	e52	e66	61	79	240	229	99	73	71
8	101	95	37	e55	e65	62	75	245	225	92	72	71
9	101	98	39	57	e66	63	79	254	205	88	74	70
10	101	87	43	56	e69	64	81	280	195	85	74	69
11	102	87	e45	57	e70	66	87	318	189	83	72	71
12	102	84	e50	e50	e69	66	92	356	187	83	e72	72
13	99	83	e58	53	e65	66	100	408	186	82	e71	72
14	99	80	e66	52	e60	68	106	424	183	80	e71	75
15	101	82	e79	50	e68	70	101	397	185	78	e70	73
16	99	e78	e76	52	e74	71	111	396	166	78	e70	70
17	97	e73	e74	e55	e76	75	132	396	159	80	e70	69
18	97	57	e72	60	e74	72	154	350	153	84	e70	68
19	97	54	e69	e58	e70	76	167	325	157	88	69	68
20	97	e48	67	e56	66	67	181	313	156	92	71	68
21	96	e45	e74	e58	67	69	205	296	160	97	e71	67
22	96	43	79	e57	65	77	226	280	163	101	e72	67
23	99	42	e78	e54	63	69	286	284	151	106	e72	67
24	99	e40	e78	52	61	66	239	278	143	105	e73	67
25	98	e38	e74	e51	53	71	218	282	141	e98	74	67
26	97	e37	e70	e50	52	65	199	285	135	e95	73	66
27	97	e36	e76	53	55	65	175	280	132	e92	73	65
28	98	e35	e86	e54	51	69	165	296	130	e88	74	66
29	96	e36	e76	e55	---	69	160	282	129	e86	73	69
30	93	e37	e68	e56	---	68	152	277	121	e83	72	71
31	96	---	e60	e56	---	72	---	282	---	e80	72	---
TOTAL	3050	2073	1841	1721	1817	2076	4057	8799	5552	2831	2255	2094
MEAN	98.4	69.1	59.4	55.5	64.9	67.0	135	284	185	91.3	72.7	69.8
MAX	102	103	86	73	76	77	286	424	285	120	80	75
MIN	93	35	32	50	51	50	75	145	121	78	69	65
AC-FT	6050	4110	3650	3410	3600	4120	8050	17450	11010	5620	4470	4150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1994, BY WATER YEAR (WY)

MEAN	91.7	79.0	69.8	63.9	61.1	62.7	162	543	623	293	152	109
MAX	156	113	88.4	85.0	82.8	99.4	385	956	1377	602	242	166
(WY)	1987	1986	1983	1983	1984	1986	1946	1982	1986	1975	1983	1986
MIN	51.0	50.7	48.4	40.1	38.1	39.5	58.6	99.1	96.2	61.4	55.1	52.1
(WY)	1978	1978	1988	1988	1988	1988	1975	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1943 - 1994	
ANNUAL TOTAL	80758		38166			
ANNUAL MEAN	221		105		193	
HIGHEST ANNUAL MEAN					324	1986
LOWEST ANNUAL MEAN					71.1	1977
HIGHEST DAILY MEAN	1200	May 27	424	May 14	2000	Jun 4 1986
LOWEST DAILY MEAN	32	Dec 6	32	Dec 6	32	Dec 6 1993
ANNUAL SEVEN-DAY MINIMUM	35	Dec 1	35	Dec 1	35	Dec 1 1993
ANNUAL RUNOFF (AC-FT)	160200		75700		139800	
10 PERCENT EXCEEDS	732		221		516	
50 PERCENT EXCEEDS	108		75		91	
90 PERCENT EXCEEDS	43		53		59	

e Estimated

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

LOCATION.--Lat 42°07'36", long 110°58'21", in NW¼SE¼NE¼ 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.

PERIOD OF RECORD.--April 1954 to current year.

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

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

REMARKS.--Records good except for estimated daily discharges, which are poor. 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 June 7, 1983, gage height, 8.75 ft; minimum, 31 ft³/s Oct. 4, 5, 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 556 ft³/s May 17, gage height, 3.84 ft; minimum discharge, 73 ft³/s Sept. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	206	e170	e170	e111	148	320	246	318	260	130	90
2	176	200	e170	e184	e111	160	323	242	310	250	136	92
3	177	206	e150	e210	e115	e172	328	234	298	232	137	90
4	166	215	e170	e200	e115	e173	326	229	315	224	153	90
5	165	213	e140	e210	e130	e173	324	230	328	218	160	88
6	172	203	e155	e182	e150	e184	315	248	376	210	154	88
7	165	208	e160	e182	e130	e193	315	271	398	219	154	88
8	182	209	e160	e152	e125	e205	311	293	392	332	157	91
9	195	209	e160	e210	e132	e210	304	274	369	280	162	84
10	204	202	e160	e174	e148	e205	306	287	346	292	158	79
11	202	e190	e140	e188	e130	e191	317	343	316	265	148	82
12	199	e190	e166	e201	e92	e191	325	385	283	324	141	84
13	204	e203	e143	e219	e138	e195	326	413	263	239	142	90
14	213	e210	e165	e189	e122	e203	335	461	247	269	138	92
15	229	e183	e180	e190	e138	e210	324	490	266	241	135	102
16	239	e190	e163	e166	e155	e205	324	532	303	211	132	97
17	242	e200	e180	e155	e178	e200	337	545	315	181	129	92
18	237	e199	e149	e160	e141	e210	352	489	317	165	126	91
19	233	e200	e150	e150	e160	e212	363	442	309	146	127	88
20	230	e210	e140	e140	e150	e228	340	419	310	131	118	85
21	229	e220	e139	e132	e133	e260	313	370	283	117	109	85
22	235	e205	e139	e132	e130	e310	302	312	278	108	110	84
23	245	e206	e140	e140	e100	e346	333	264	295	120	112	83
24	241	e160	e150	e152	137	396	330	242	312	118	106	82
25	237	e130	e141	e150	139	387	321	235	317	120	100	81
26	231	e160	e139	e143	128	373	306	235	288	119	92	79
27	219	e178	e133	e143	140	360	284	247	265	114	91	78
28	219	e177	e180	e130	149	352	267	274	258	111	99	80
29	219	e162	e173	e130	---	339	265	279	258	108	95	89
30	210	e171	e165	e130	---	334	251	304	252	106	90	97
31	208	---	e155	e119	---	327	---	322	---	112	89	---
TOTAL	6497	5815	4825	5133	3727	7652	9487	10157	9185	5942	3930	2621
MEAN	210	194	156	166	133	247	316	328	306	192	127	87.4
MAX	245	220	180	219	178	396	363	545	398	332	162	102
MIN	165	130	133	119	92	148	251	229	247	106	89	78
AC-FT	12890	11530	9570	10180	7390	15180	18820	20150	18220	11790	7800	5200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1994, BY WATER YEAR (WY)

MEAN	220	230	200	181	207	371	699	1017	1239	579	239	200
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
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

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1955 - 1994	
ANNUAL TOTAL	186211		74971			
ANNUAL MEAN	510		205		449	
HIGHEST ANNUAL MEAN					1049	1984
LOWEST ANNUAL MEAN					112	1977
HIGHEST DAILY MEAN	1980	May 22	545	May 17	5400	Jun 7 1983
LOWEST DAILY MEAN	72	Feb 25	78	Sep 27	31	Oct 5 1977
ANNUAL SEVEN-DAY MINIMUM	75	Feb 23	81	Sep 22	36	Oct 1 1977
ANNUAL RUNOFF (AC-FT)	369300		148700		325000	
10 PERCENT EXCEEDS	1630		326		1110	
50 PERCENT EXCEEDS	231		190		223	
90 PERCENT EXCEEDS	86		100		112	

e Estimated

10039500 BEAR RIVER AT BORDER, WY

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

DRAINAGE AREA.--2,486 mi².

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

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

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

REMARKS.--Records good 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 June 7, 1983, gage height, 9.69 ft; minimum, 24 ft³/s Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 441 ft³/s May 17, gage height, 2.80 ft; minimum daily discharge, 62 ft³/s Sept. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	194	e170	e170	e114	e150	294	257	271	233	82	69
2	166	188	e170	e188	e113	e160	298	260	271	236	92	62
3	152	189	e150	e210	e113	e169	306	253	262	219	86	67
4	147	192	e170	e200	e118	e172	303	263	270	208	91	74
5	148	195	e140	e210	e122	e176	305	231	267	205	111	80
6	156	197	e158	e190	e150	e181	293	238	309	199	165	75
7	158	e210	e160	e183	e130	e190	295	256	329	204	159	76
8	163	e210	e160	e183	e130	e200	291	290	334	299	157	80
9	178	e210	e160	e160	e140	e210	284	278	365	289	132	77
10	188	e208	e160	e210	e105	e209	283	268	341	312	140	74
11	188	e200	e147	e180	e120	e198	288	305	304	289	129	72
12	188	e190	e171	e191	e140	e192	295	339	265	328	116	75
13	183	e198	e147	e205	e140	e198	298	330	252	276	114	81
14	192	e205	e160	e220	e125	e200	304	350	225	276	114	82
15	206	e188	e170	e190	e138	e210	299	382	219	288	109	88
16	225	e190	e155	e190	e150	e209	291	414	254	235	104	88
17	228	e199	e175	e170	e158	e202	298	438	250	189	100	84
18	225	e200	e153	e158	e150	e205	308	416	255	164	102	81
19	220	e200	e150	e160	e160	e212	317	384	244	139	105	82
20	222	e210	e142	e150	e149	e228	327	389	254	112	103	78
21	217	e220	e140	e142	e130	e250	327	353	242	103	94	77
22	219	e210	e140	e135	e130	e300	290	292	226	89	92	81
23	225	e208	e142	e135	e105	e376	300	244	238	65	94	80
24	225	e170	e150	e140	e125	354	314	214	260	78	86	80
25	222	e132	e143	e150	e139	336	308	191	276	78	81	77
26	218	e150	e140	e148	e130	332	297	190	259	77	77	80
27	210	e170	e138	e142	e140	308	283	202	237	76	74	78
28	207	e173	e180	e132	e150	307	273	218	235	75	79	81
29	209	e169	e172	e131	---	302	275	228	241	75	80	88
30	201	e170	e168	e130	---	295	265	243	241	75	75	97
31	197	---	e160	e125	---	292	---	260	---	76	72	---
TOTAL	6051	5745	4841	5228	3714	7323	8909	8976	7996	5567	3215	2364
MEAN	195	191	156	169	133	236	297	290	267	180	104	78.8
MAX	228	220	180	220	160	376	327	438	365	328	165	97
MIN	147	132	138	125	105	150	265	190	219	65	72	62
AC-FT	12000	11400	9600	10370	7370	14530	17670	17800	15860	11040	6380	4690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1994, BY WATER YEAR (WY)

MEAN	208	225	199	183	209	385	756	1015	1136	504	219	177
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	51.4	81.2	106	77.6	75.2	105	71.2	74.4	62.2	54.2	42.3	38.5
(WY)	1978	1978	1993	1993	1993	1988	1977	1977	1977	1977	1940	1940

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1938 - 1994	
ANNUAL TOTAL	173215		69929			
ANNUAL MEAN	475		192		435	
HIGHEST ANNUAL MEAN					1068	1983
LOWEST ANNUAL MEAN					103	1977
HIGHEST DAILY MEAN	1940	May 23	438	May 17	4840	Jun 8 1983
LOWEST DAILY MEAN	70	Jan 5	62	Sep 2	25	Apr 29 1977
ANNUAL SEVEN-DAY MINIMUM	70	Jan 25	71	Aug 29	29	Apr 28 1977
ANNUAL RUNOFF (AC-FT)	343600		138700		315000	
10 PERCENT EXCEEDS	1500		301		1110	
50 PERCENT EXCEEDS	219		188		223	
90 PERCENT EXCEEDS	78		81		110	

e Estimated

10046000 RAINBOW INLET CANAL NEAR DINGLE, ID

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

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

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

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

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

AVERAGE DISCHARGE.--72 years, 360 ft³/s, 260,800 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	193	155	127	126	158	251	155	39	4.9	7.1	14
2	152	190	157	127	120	181	258	144	39	12	8.1	14
3	156	185	156	129	118	190	262	147	41	17	8.7	14
4	151	181	153	133	121	205	267	127	40	15	8.3	11
5	171	184	163	132	120	227	268	103	43	29	8.1	11
6	169	184	152	132	119	244	267	75	45	31	7.0	12
7	175	165	145	136	115	271	249	75	42	32	7.9	13
8	187	166	141	130	109	293	242	73	44	31	8.8	14
9	193	185	140	125	127	348	227	74	48	43	14	14
10	203	185	138	126	127	372	224	72	52	45	22	11
11	212	198	138	134	126	356	222	72	59	43	24	11
12	227	197	136	136	130	360	217	65	60	41	26	11
13	214	206	132	141	137	387	218	66	70	40	23	11
14	209	206	135	144	132	398	216	69	55	30	18	11
15	221	200	120	149	120	409	220	81	69	18	15	11
16	234	219	113	151	126	401	222	71	62	20	14	12
17	242	210	115	152	126	381	220	86	63	17	20	13
18	250	185	122	148	124	377	215	75	68	14	17	12
19	254	162	118	142	127	377	217	69	55	11	15	13
20	238	153	118	139	131	397	215	61	50	8.9	15	13
21	227	173	126	137	133	393	222	65	44	6.6	13	12
22	225	174	128	131	133	391	225	61	40	6.3	14	12
23	221	190	122	132	136	407	203	50	35	7.2	16	14
24	224	199	119	129	136	382	205	46	23	7.4	15	14
25	223	154	118	137	135	358	208	43	16	8.4	12	15
26	218	134	119	133	143	330	204	42	8.4	8.6	11	15
27	212	137	119	133	149	316	208	42	5.0	8.7	11	15
28	206	135	117	138	151	295	192	41	3.8	8.1	12	14
29	206	140	125	135	---	284	172	42	3.2	7.9	11	14
30	204	148	133	133	---	272	160	38	3.0	7.5	9.8	16
31	198	---	136	134	---	260	---	41	---	7.5	11	---
TOTAL	6366	5338	4109	4205	3597	10020	6696	2271	1225.4	587.0	422.8	387
MEAN	205	178	133	136	128	323	223	73.3	40.8	18.9	13.6	12.9
MAX	254	219	163	152	151	409	268	155	70	45	26	16
MIN	144	134	113	125	109	158	160	38	3.0	4.9	7.0	11
AC-FT	12630	10590	8150	8340	7130	19870	13280	4500	2430	1160	839	768

CAL YR 1993 TOTAL 166935 MEAN 457 MAX 2020 MIN 52 AC-FT 331100
WTR YR 1994 TOTAL 45224.2 MEAN 124 MAX 409 MIN 3.0 AC-FT 89700

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

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

DRAINAGE AREA.--435 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 Utah Power & Light Co. datum.

REMARKS.--Outflow regulated by gates and pumps at the north end of Bear Lake and by gates in dike at north end of Mud Lake, a shallow interconnected lake. Principal inflow to Bear Lake is from Bear River through Rainbow Inlet Canal (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 Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 597,000 acre-ft May 13-23, elevation, 5,911.62 ft; minimum, 268,000 acre-ft Sept. 29, 30, elevation, 5,906.44 ft.

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

5,905	179,500	5,910	492,300
5,906	241,000	5,911	556,800

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	508	513	515	519	525	540	566	590	582	507	407	318
2	508	513	515	520	525	540	567	591	579	505	404	316
3	508	513	515	520	526	540	568	592	577	503	402	315
4	508	513	516	520	526	541	569	592	576	499	399	312
5	508	514	516	520	526	541	570	593	574	496	397	309
6	508	514	516	520	526	542	571	594	573	491	394	306
7	508	514	516	520	527	543	572	594	572	488	389	303
8	508	514	516	521	527	543	573	594	571	485	387	301
9	509	514	516	521	528	544	574	596	569	481	384	298
10	509	514	516	521	528	545	575	596	567	478	382	296
11	509	514	517	521	528	546	577	596	563	473	380	293
12	509	514	517	521	529	548	579	596	562	471	377	291
13	510	514	517	521	529	548	580	597	561	468	375	289
14	510	514	517	521	530	550	581	597	559	465	371	288
15	510	514	517	521	530	551	581	597	557	462	369	286
16	510	514	517	521	530	552	582	597	554	459	366	285
17	511	515	517	521	531	554	583	597	551	455	363	284
18	511	515	518	521	531	554	583	597	547	452	359	281
19	512	515	518	522	532	555	584	597	544	449	338	280
20	512	515	518	522	534	556	585	597	541	446	353	278
21	512	515	518	522	535	557	585	597	538	442	350	276
22	512	515	518	523	535	558	585	597	535	439	347	274
23	512	515	518	523	535	560	586	597	533	435	344	272
24	512	515	518	523	537	561	586	596	530	432	341	271
25	513	515	519	523	537	561	586	594	527	428	338	270
26	513	515	519	523	537	561	587	592	524	425	335	269
27	513	515	519	524	538	561	587	590	521	421	333	269
28	513	515	519	524	539	563	587	589	516	418	329	268
29	513	515	519	524	---	564	588	587	513	414	326	268
30	513	515	519	524	---	565	589	585	510	412	324	268
31	513	---	519	525	---	566	---	584	---	410	321	---
MAX	513	515	519	525	539	566	589	597	582	507	407	318
MIN	508	513	515	519	525	540	566	584	510	410	321	268
(#)	5910.32	5910.36	5910.42	5910.51	5910.73	5911.14	5911.49	5911.42	5910.28	5908.71	5907.30	5906.44
(*)	+5	+2	+4	+6	+14	+27	+23	-5	-74	-100	-89	-53

CAL YR 1993 . . . . . (*) +313
WTR YR 1994 . . . . . (*) -240

(#) Elevation, in feet, at end of month.
(*) Change in contents, in thousands of acre-feet.

10059500 BEAR LAKE OUTLET CANAL NEAR PARIS, ID

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

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

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Bear Lake (station 10055500).

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

AVERAGE DISCHARGE.--72 years, 411 ft³/s, 297,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,080 ft³/s June 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e10	e10	e5.0	e5.0	e5.0	e12	e7.0	e7.0	702	1370	1050	779
2	e10	e10	e5.0	e5.0	e5.0	e12	e7.0	e7.0	715	1340	1050	739
3	e10	e10	e5.0	e5.0	e5.0	e12	e7.0	e7.0	704	1310	1050	661
4	e10	e10	e5.0	e5.0	e5.0	e12	e7.0	e7.0	700	1290	1050	655
5	e10	e10	e5.0	e5.0	e5.0	e12	e7.0	e7.0	700	1280	1040	648
6	e10	e10	e5.0	e5.0	e5.0	e12	e7.0	e7.0	700	1260	1040	651
7	e10	e10	e5.0	e5.0	e5.0	e12	e7.0	e7.0	690	1240	1030	628
8	e10	e10	e5.0	e5.0	e5.0	e12	e7.0	e7.0	523	1230	1030	578
9	e10	e10	e5.0	e5.0	e5.0	e12	e7.0	e7.0	508	1220	1050	568
10	e10	e10	e5.0	e5.0	e5.0	e12	e7.0	e7.0	576	1230	1050	560
11	e10	e10	e5.0	e5.0	e5.0	e12	e7.0	70	664	1240	1060	556
12	e10	e10	e5.0	e5.0	e5.0	e15	e7.0	86	674	1250	1050	559
13	e10	e10	e5.0	e5.0	e5.0	e15	e7.0	106	678	1270	1050	469
14	e10	e10	e5.0	e5.0	e5.0	e15	e7.0	107	877	1280	1040	407
15	e10	e10	e5.0	e5.0	e5.0	e15	e7.0	152	1130	1280	1050	410
16	e10	e10	e5.0	e5.0	e5.0	e25	e7.0	161	1150	1290	1050	407
17	e10	e5.0	e5.0	e5.0	e5.0	e25	e7.0	107	1150	1300	1050	409
18	e10	e5.0	e5.0	e5.0	e5.0	e10	e7.0	109	1160	1290	1020	396
19	e10	e5.0	e5.0	e5.0	e5.0	e10	e7.0	135	1210	1290	971	263
20	e10	e5.0	e5.0	e5.0	e5.0	e10	e7.0	139	1310	1290	974	253
21	e10	e5.0	e5.0	e5.0	e5.0	e10	e7.0	133	1350	1290	976	223
22	e10	e5.0	e5.0	e5.0	e10	e10	e7.0	130	1430	1280	975	14
23	e10	e5.0	e5.0	e5.0	e10	e10	e7.0	340	1480	1290	956	e10
24	e10	e5.0	e5.0	e5.0	e10	e7.0	e7.0	750	1500	1290	925	e10
25	e10	e5.0	e5.0	e5.0	e10	e7.0	e7.0	955	1550	1270	878	e10
26	e10	e5.0	e5.0	e5.0	e10	e7.0	e7.0	961	1520	1260	828	e10
27	e10	e5.0	e5.0	e5.0	e10	e7.0	e7.0	928	1480	1240	825	e10
28	e10	e5.0	e5.0	e5.0	e10	e7.0	e7.0	917	1440	1100	830	e10
29	e10	e5.0	e5.0	e5.0	---	e7.0	e7.0	905	1430	1040	822	e10
30	e10	e5.0	e5.0	e5.0	---	e7.0	e7.0	890	1400	1040	802	e10
31	e10	---	e5.0	e5.0	---	e7.0	---	875	---	1040	781	---
TOTAL	310	230.0	155.0	155.0	175.0	358.0	210.0	9026.0	31101	38690	30353	10913
MEAN	10.0	7.67	5.00	5.00	6.25	11.5	7.00	291	1037	1248	979	364
MAX	10	10	5.0	5.0	10	25	7.0	961	1550	1370	1060	779
MIN	10	5.0	5.0	5.0	5.0	7.0	7.0	7.0	508	1040	781	10
AC-FT	615	456	307	307	347	710	417	17900	61690	76740	60210	21650

CAL YR 1993 TOTAL 45270.0 MEAN 124 MAX 1280 MIN 4.0 AC-FT 89790
WTR YR 1994 TOTAL 121676.0 MEAN 333 MAX 1550 MIN 5.0 AC-FT 241300

e Estimated

10068500 BEAR RIVER AT PESCADERO, ID

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

DRAINAGE AREA.--3,705 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 recorder. Elevation of gage is 5,900 ft above sea level, from topographic map. Prior to Oct. 1, 1988 at datum 0.35 ft lower.

REMARKS.--Records good except for 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 June 21, 1986; minimum daily, 23 ft³/s Mar. 14-17, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,770 ft³/s June 25; minimum daily discharge, 64 ft³/s Nov. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	e100	e89	e100	e80	e94	172	135	863	1500	1120	818
2	83	e91	e105	e110	e76	e80	176	134	798	1460	1120	815
3	79	e98	e92	e118	e76	e100	178	138	792	1440	1120	766
4	76	e102	e110	e110	e80	e110	178	131	790	1410	1120	721
5	78	e88	e96	e119	e84	e118	176	96	792	1400	1120	706
6	83	e84	e103	e105	e110	e110	175	92	804	1390	1110	697
7	89	e80	e94	e90	e138	e102	173	90	679	1370	1110	694
8	92	e86	e120	e100	e110	e130	172	82	610	1370	1100	667
9	99	e86	e110	e110	e100	e120	161	81	651	1360	1110	635
10	96	e100	e120	e96	e120	e112	156	78	736	1350	1110	623
11	95	e100	e130	e100	e110	e121	165	135	763	1330	1120	617
12	100	e104	e110	e110	e80	e130	166	184	769	e1310	1120	611
13	100	e98	e88	e120	e90	e130	149	212	804	e1340	1120	608
14	98	e96	e86	e110	e94	e145	142	223	1160	e1370	1110	535
15	100	e86	e100	e101	e105	e155	140	259	1270	e1390	1110	479
16	108	e90	e89	e96	e120	e170	129	337	1280	e1400	1110	463
17	105	e94	e84	e92	e139	e140	118	278	1280	e1420	1110	455
18	100	e84	e78	e100	e100	e140	115	250	1320	e1440	1110	452
19	90	e76	e82	e95	e100	e130	111	264	1410	e1460	1070	448
20	91	e76	e79	e90	e100	e140	104	294	1470	e1480	1040	362
21	91	e82	e78	e88	e88	e150	103	289	1570	e1480	1030	316
22	101	e103	e78	e86	e80	e160	103	276	1660	e1480	1030	301
23	104	e92	e80	e84	e76	174	100	280	1690	1400	1030	196
24	102	e79	e84	e130	e110	183	103	655	1760	1400	999	110
25	98	e64	e80	e130	e112	172	109	1010	1770	1390	973	88
26	e94	e69	e84	e122	e120	165	148	1070	1730	1380	911	80
27	e90	e74	e96	e112	e100	160	158	1070	1680	1370	876	76
28	e89	e82	e110	e100	e109	160	150	1080	1650	1340	865	71
29	e86	e90	e100	e92	---	165	146	1090	1610	1210	862	70
30	e88	e94	e94	e88	---	173	142	1080	1550	1140	855	66
31	e91	---	e90	e80	---	172	---	1050	---	1120	832	---
TOTAL	2884	2648	2939	3184	2807	4311	4318	12443	35711	42700	32423	13546
MEAN	93.0	88.3	94.8	103	100	139	144	401	1190	1377	1046	452
MAX	108	104	130	130	139	183	178	1090	1770	1500	1120	818
MIN	76	64	78	80	76	80	100	78	610	1120	832	66
AC-FT	5720	5250	5830	6320	5570	8550	8560	24680	70830	84700	64310	26870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1994, BY WATER YEAR (WY)

MEAN	460	468	485	449	396	386	432	568	940	1185	1012	673
MAX	2039	2134	1788	1340	1710	1707	1678	2106	3413	2918	1955	1696
(WY)	1984	1984	1985	1924	1985	1985	1986	1986	1986	1983	1983	1984
MIN	35.7	58.0	58.1	36.4	29.8	25.4	84.5	184	340	516	511	43.2
(WY)	1978	1935	1936	1936	1936	1936	1990	1989	1932	1938	1936	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1923 - 1994	
ANNUAL TOTAL	104367		159914			
ANNUAL MEAN	286		438		625	
HIGHEST ANNUAL MEAN					1733	1984
LOWEST ANNUAL MEAN					266	1945
HIGHEST DAILY MEAN	1420	Jul 15	1770	Jun 25	4280	Jun 21 1986
LOWEST DAILY MEAN	47	Jan 5	64	Nov 25	23	Mar 14 1936
ANNUAL SEVEN-DAY MINIMUM	50	Jan 2	79	Nov 23	23	Mar 11 1936
ANNUAL RUNOFF (AC-FT)	207000		317200		452600	
10 PERCENT EXCEEDS	647		1340		1340	
50 PERCENT EXCEEDS	186		130		504	
90 PERCENT EXCEEDS	56		83		78	

e Estimated

10075000 BEAR RIVER AT SODA SPRINGS, ID

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

DRAINAGE AREA.--3,972 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 sea level, from topographic map. May 25 to Oct. 2, 1896, May 22 to July 1, 1898, staff gage at different datum. During irrigation season 1944-49, 1950-53, water-stage recorder at site 800 ft downstream at different datum.

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

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

AVERAGE DISCHARGE.--41 years, 716 ft³/s, 518,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft³/s June 9, 15, 1896, gage height, 8.40 ft, datum then in use; minimum discharge, 41 ft³/s Nov. 16, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,700 ft³/s June 25; minimum daily discharge, 95 ft³/s Sept. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	188	e160	e157	e177	e219	300	264	947	1440	1030	738
2	146	186	e159	e159	e180	e233	300	251	840	1390	1020	732
3	141	192	e161	e161	e186	e235	305	249	822	1360	1020	727
4	135	197	e159	e161	e188	e233	308	254	813	1340	1020	661
5	133	196	e164	e160	e190	e251	298	249	799	1320	1020	644
6	133	163	e166	e160	e194	e270	293	223	804	1330	1000	656
7	148	e143	e167	e159	e198	e309	305	226	734	1310	1000	663
8	157	e132	e163	e160	e198	e313	302	226	638	1290	1000	649
9	162	e135	e166	e160	e206	e324	291	216	647	1280	1000	593
10	161	e136	e165	e160	e208	e330	274	215	705	1280	1010	576
11	155	e133	e167	e161	e212	e326	270	214	753	1260	1010	567
12	170	e134	e167	e160	e215	e329	275	280	763	1250	1010	568
13	168	e137	e168	e161	e223	e325	271	347	761	1260	1000	567
14	168	e139	e159	e160	e224	e329	255	368	1020	1260	997	543
15	172	e139	e158	e158	e226	e347	247	377	1220	1290	1000	438
16	173	e140	e160	e158	e231	e418	247	430	1240	1290	997	414
17	177	e142	e157	e157	e240	e523	235	482	1240	1280	996	414
18	170	e140	e158	e150	e237	516	230	419	1260	1290	974	417
19	165	e138	e157	e149	e244	462	236	400	1330	1290	967	420
20	159	e143	e157	e149	e252	413	236	427	1410	1280	915	388
21	158	e146	e156	e147	e259	374	231	436	1500	1290	910	303
22	161	e148	e156	e148	e259	379	236	421	1600	1290	917	279
23	169	e147	e158	e149	e261	333	240	402	1640	1290	926	273
24	170	e147	e157	e151	e241	296	243	547	1680	1300	911	173
25	167	e145	e156	e154	e220	300	247	958	1700	1290	873	113
26	164	e146	e156	e157	e231	294	263	1110	1670	1280	833	101
27	173	e150	e156	e161	e229	280	285	1120	1610	1270	771	99
28	178	e159	e155	e163	e215	281	285	1130	1570	1260	759	97
29	185	e159	e156	e166	---	287	273	1120	1550	1180	764	95
30	186	e160	e157	e167	---	291	269	1100	1490	1060	762	105
31	189	---	e159	e170	---	294	---	1090	---	1030	759	---
TOTAL	5040	4560	4960	4893	6144	10114	8050	15551	34756	39630	29171	13013
MEAN	163	152	160	158	219	326	268	502	1159	1278	941	434
MAX	189	197	168	170	261	523	308	1130	1700	1440	1030	738
MIN	133	132	155	147	177	219	230	214	638	1030	759	95
AC-FT	10000	9040	9840	9710	12190	20060	15970	30850	68940	78610	57860	25810

CAL YR 1993 TOTAL 146209 MEAN 401 MAX 1430 MIN 100 AC-FT 290000
WTR YR 1994 TOTAL 175882 MEAN 482 MAX 1700 MIN 95 AC-FT 348900

e Estimated

10079000 SODA POINT RESERVOIR AT ALEXANDER, ID

LOCATION.--Lat 42°38'41", long 111°42'44", in NW¼SE¼NW¼ 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, Utah Power and Light Co. datum.

PERIOD OF RECORD.--October 1924 to current year. Prior to 1986, published in reports of the Bear River Commission.

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 14,230 acre-ft Aug. 24, elevation, 5,719.60 ft; minimum, 10,860 acre-ft Mar. 24, elevation, 9,716.02 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13180	13170	13130	13060	12690	13010	11800	13420	13220	12540	12500	13920
2	13260	13090	13010	13130	12740	13010	12220	13450	13050	12500	12530	13850
3	13320	13020	12870	12990	12790	12890	12600	13490	13020	12400	12580	13890
4	13350	12970	13030	12870	12870	12810	12640	13550	13000	12280	12620	13940
5	13390	12970	13130	12930	12930	12810	12600	13620	12910	12110	12670	13990
6	13420	13100	13250	12990	12980	12740	12610	13640	12820	12020	12670	14010
7	13250	13260	13380	12840	12770	12740	12640	13640	13150	12070	12690	14010
8	13320	13150	13530	12900	12840	12740	12710	13640	13190	12070	12710	14060
9	13540	13030	13650	13000	12920	12080	12700	13570	13130	12060	12830	14200
10	13720	12980	13560	13000	12990	12140	12700	13470	13170	12050	13210	13840
11	13620	12930	13420	13160	12790	12170	12640	13370	13200	12030	13520	13720
12	13590	12910	13310	13000	12830	12260	12740	13320	13220	11980	13600	13600
13	13470	13040	13170	13070	12890	12400	12750	13420	13130	12020	13620	13500
14	13470	13140	13020	12920	12700	12370	12750	13420	12740	12060	13660	13370
15	13450	12930	13100	13020	12770	12430	12480	13420	12740	12140	13690	13130
16	13430	13010	12980	13130	12850	12620	12310	13450	12800	12110	13720	12910
17	13380	13120	12840	12840	12970	12540	12530	13590	12900	12110	13760	12840
18	13280	13020	12940	12950	12870	12470	12550	13620	12960	12110	13900	12780
19	13220	12930	13050	12820	12970	12230	12500	13580	12860	12110	14060	12860
20	13130	12710	13020	12820	13030	11890	12540	13510	12960	12170	14060	13090
21	13040	12840	12990	12780	13100	11450	12540	13430	12790	12090	14150	13160
22	12940	13090	12840	12880	12930	11220	12520	13350	12740	12090	14150	13160
23	13050	13250	12690	12970	13030	10930	12760	13200	12930	12110	14200	13290
24	13190	13020	12770	13060	13100	10860	13020	12420	12910	12150	14230	13360
25	13120	13010	12830	12930	12910	10910	13120	12320	12980	12160	14210	13360
26	13210	13060	12900	12760	13100	11340	13160	12390	13000	12160	14110	13330
27	13120	13180	12980	12760	13390	11690	13200	12340	12870	12150	13970	13330
28	13020	13260	13050	12670	13220	11820	13240	12620	12740	12170	13970	13300
29	12950	13120	13080	12740	---	11820	13320	12810	12680	12360	14010	13330
30	13090	13010	12850	12810	---	11780	13370	12980	12600	12310	14020	13350
31	13240	---	12970	12640	---	11780	---	13120	---	12400	14020	---
MAX	13720	13260	13650	13160	13390	13010	13370	13640	13220	12540	14230	14200
MIN	12940	12710	12690	12640	12690	10860	11800	12320	12600	11980	12500	12780
(#)	5718.62	5718.38	5718.34	5718.00	5718.60	5717.08	5718.75	5718.50	5717.96	5717.75	5719.39	5718.73
(*)	+100	-230	-40	-330	+580	-1440	+1590	-250	-520	-200	+1620	-670

CAL YR 1993 . . . . . (*) +270
WTR YR 1994 . . . . . (*) +210

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

10079500 BEAR RIVER AT ALEXANDER, ID

LOCATION.--Lat 42°38'42", long 111°41'51", in NE$^1/_4$SW$^1/_4$NW$^1/_4$ 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 mi^2.

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

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

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

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

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

AVERAGE DISCHARGE.--82 years, 803 ft^3/s, 581,800 acre-ft/yr.

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

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,880 ft^3/s June 27; minimum daily discharge, 111 ft^3/s Oct. 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	301	155	155	154	136	418	288	965	1650	1010	856
2	121	302	290	158	153	368	185	282	817	1610	1030	859
3	124	274	284	301	153	367	192	281	771	1610	997	758
4	126	271	147	306	154	279	403	282	765	1590	1010	700
5	130	288	151	177	155	363	441	290	762	1590	1020	702
6	134	151	156	178	156	e383	395	285	655	1490	1020	703
7	273	154	153	306	156	e372	402	291	548	1410	1020	708
8	111	296	152	168	297	e377	397	288	553	1400	1020	692
9	115	308	155	161	150	998	399	307	552	1390	889	667
10	120	300	306	154	150	281	398	334	587	1360	791	747
11	248	265	317	155	151	360	394	338	632	1360	923	714
12	280	289	323	283	298	341	372	368	650	1340	1020	703
13	243	172	308	157	145	366	330	418	868	1290	1020	705
14	290	173	311	292	143	469	323	428	1030	1320	1010	714
15	240	283	165	164	307	485	438	438	1100	1380	1020	688
16	277	155	293	163	145	506	380	458	1110	1440	1020	602
17	270	154	293	380	149	734	173	473	1110	1430	980	552
18	272	289	156	159	149	729	296	471	1190	1440	943	533
19	269	361	153	295	285	752	298	495	1280	1440	940	433
20	281	195	296	160	172	783	291	390	1400	1430	954	351
21	277	131	160	297	159	753	312	498	1560	1430	958	345
22	274	135	292	167	165	698	296	496	1600	1420	967	319
23	149	144	285	172	168	654	151	764	1660	1410	981	261
24	156	341	160	171	294	432	148	791	1750	1410	990	181
25	299	151	162	300	162	408	238	953	1800	1400	989	145
26	171	151	166	304	169	157	303	1090	1840	1370	989	153
27	300	152	167	166	304	158	307	1070	1880	1370	895	141
28	311	156	165	311	135	310	309	1010	1830	1220	836	124
29	300	293	163	158	---	405	295	990	1770	1120	858	129
30	172	292	294	160	---	404	287	971	1750	1060	857	145
31	173	---	159	300	---	407	---	969	---	951	859	---
TOTAL	6621	6927	6737	6778	5178	14235	9571	16807	34785	43131	29816	15330
MEAN	214	231	217	219	185	459	319	542	1159	1391	962	511
MAX	311	361	323	380	307	998	441	1090	1880	1650	1030	859
MIN	111	131	147	154	135	136	148	281	548	951	791	124
AC-FT	13130	13740	13360	13440	10270	28240	18980	33340	69000	85550	59140	30410

CAL YR 1993 TOTAL 169319 MEAN 464 MAX 1740 MIN 108 AC-FT 335800
WTR YR 1994 TOTAL 195916 MEAN 537 MAX 1880 MIN 111 AC-FT 388600

e Estimated

10080000 BEAR RIVER BELOW GRACE DAM, NEAR GRACE, ID

LOCATION.--Lat 42°35'11", long 111°43'51", in NE¼SE¼NW¼ 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.

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 Utah Power & Light Co.

GAGE.--Water-stage recorder. Elevation of gage is 5,550 ft above sea level, from topographic map.

REMARKS.--Records fair.

COOPERATION.--Records collected by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,390 ft³/s June 10, 1986, gage height, 6.77 ft; minimum, 0.74 ft³/s Feb. 2, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 472 ft³/s June 29; minimum daily discharge, 1.2 ft³/s Nov. 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.0	6.6	2.7	2.2	5.7	1.5	2.7	76	78	43	22
2	4.4	2.1	5.7	2.9	1.9	10	1.4	2.7	69	18	40	27
3	4.3	2.2	6.4	3.1	1.7	21	1.4	3.0	73	17	37	30
4	7.7	2.1	11	3.5	1.5	41	1.4	3.5	74	17	37	31
5	4.2	2.2	9.5	3.9	1.5	16	1.4	3.1	74	20	40	30
6	4.2	2.4	9.3	4.1	1.5	4.7	1.5	2.8	69	16	38	25
7	4.2	2.5	9.2	3.7	1.6	2.8	1.5	3.3	70	18	38	31
8	3.7	2.4	10	3.9	1.5	2.7	1.4	3.7	73	17	30	29
9	3.8	3.1	9.7	3.9	1.5	2.4	1.4	3.0	73	18	21	28
10	3.7	24	12	4.0	1.5	2.3	1.4	4.2	65	16	50	30
11	4.1	2.0	6.6	4.1	1.4	2.1	1.5	10	70	16	49	32
12	4.2	2.1	4.3	4.3	1.4	1.4	2.0	4.8	70	16	30	32
13	4.3	2.2	4.4	4.9	1.4	1.4	6.7	16	76	16	13	34
14	5.3	2.1	6.0	5.1	1.4	1.4	9.6	17	75	16	12	35
15	5.2	1.9	5.4	5.1	1.3	1.4	1.7	20	73	17	7.6	40
16	5.9	1.9	5.2	5.1	1.3	1.4	1.6	24	68	30	40	38
17	4.6	1.9	4.4	5.3	1.4	1.4	1.6	29	71	45	8.7	39
18	3.3	1.7	4.4	5.6	1.4	1.4	1.6	37	75	66	5.4	39
19	2.8	1.7	4.2	5.3	1.4	1.4	1.7	48	70	46	14	43
20	2.3	1.9	4.4	4.8	1.4	1.3	1.7	60	121	29	14	38
21	2.0	1.9	3.7	4.4	1.4	1.4	2.0	62	244	31	6.6	36
22	1.9	1.6	4.1	4.2	1.4	1.4	2.2	56	250	32	10	40
23	2.3	1.2	3.0	4.1	1.4	1.9	2.2	59	268	31	7.7	36
24	2.0	3.7	2.0	4.3	1.4	1.4	2.2	68	370	36	7.8	7.0
25	1.8	17	1.7	4.4	1.4	1.3	2.1	71	398	36	12	7.1
26	1.9	16	1.7	4.4	1.6	1.4	2.1	76	388	45	21	7.0
27	1.6	7.3	3.0	4.4	2.5	1.4	2.0	74	395	80	16	6.5
28	1.6	5.6	3.1	4.3	3.9	1.4	2.2	78	339	58	17	4.4
29	1.6	5.9	2.5	4.1	---	1.4	2.3	75	472	37	17	4.9
30	1.8	7.2	2.3	3.8	---	1.4	2.5	74	344	31	18	6.2
31	2.0	---	2.1	3.0	---	1.4	---	78	---	19	25	---
TOTAL	105.6	131.8	167.9	130.7	45.2	139.0	65.8	1068.8	4953	968	725.8	808.1
MEAN	3.41	4.39	5.42	4.22	1.61	4.48	2.19	34.5	165	31.2	23.4	26.9
MAX	7.7	24	12	5.6	3.9	41	9.6	78	472	80	50	43
MIN	1.6	1.2	1.7	2.7	1.3	1.3	1.4	2.7	65	16	5.4	4.4
AC-FT	209	261	333	259	90	276	131	2120	9820	1920	1440	1600

CAL YR 1993 TOTAL 4576.6 MEAN 12.5 MAX 85 MIN 1.2 AC-FT 9080
WTR YR 1994 TOTAL 9309.7 MEAN 25.5 MAX 472 MIN 1.2 AC-FT 18470

10086000 ONEIDA NARROWS RESERVOIR AT ONEIDA, ID

LOCATION.--Lat 42°16'34", long 111°44'56", in $SW^1/_4NW^1/_4SE^1/_4$ sec. 23, T. 13 S, R. 40 E., Franklin County, Hydrologic Unit 16010202, 6 mi south of Cleveland.

DRAINAGE AREA (REVISED).--4,455 mi^2.

REVISED RECORDS.--WRD UT-74-1, WDR UT-89-1: Drainage area; WDR UT-88-1: 1987.

PERIOD OF RECORD.--October 1914 to current year. Prior to 1986, published in reports of Bear River Commission.

GAGE.--Elevation of gage is 4,800 ft, Utah Power and Light Co. datum.

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 10,600 acre-ft Oct. 21, Nov. 13, elevation, 4882.13 ft; minimum, 6,048 acre-ft, Oct. 25, elevation, 4,867.80 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8547	6652	10190	10150	10280	10110	10060	10020	10130	8537	10260	9897
2	8716	6616	9997	10110	10350	10170	9952	10230	10210	8836	10210	10140
3	8667	6654	10210	10080	10250	10160	10150	9911	10390	8703	10130	10010
4	8732	7250	10200	10160	10100	10100	10180	9945	10380	8738	10230	10010
5	8596	7386	9870	10270	10250	10310	10290	10010	10270	9037	9925	10110
6	8657	7530	10160	10170	10080	9746	10250	9966	10520	9243	10280	10160
7	8605	7811	10250	10370	9804	9914	10240	10090	10210	9173	10190	10080
8	8690	8147	10140	10200	9904	10230	10370	10120	10210	9437	10380	10180
9	8608	8667	10120	10200	10210	10220	10230	10300	10080	9253	10040	9959
10	8673	9173	10230	10220	10120	9925	10330	10420	9952	9266	10150	10030
11	8673	9685	10150	10250	10170	10230	10230	10470	9715	9286	10060	10050
12	8677	10140	10190	10120	10090	10210	10220	10010	9495	9280	10150	10090
13	8657	10600	9719	10120	10170	10360	9973	10050	8935	9130	10250	9983
14	8634	10550	10240	9695	10100	10530	10260	10220	9037	9196	10270	10060
15	8657	10320	10270	9405	10160	9911	10120	10160	9475	9180	10230	10000
16	8612	10220	10250	9966	10090	10100	10150	10290	9603	9253	10280	9931
17	8680	10140	10130	9980	9928	10050	10040	10230	9515	9290	10250	10140
18	9216	10110	10040	10370	10230	10150	9945	10130	9213	9559	10180	10390
19	9726	10300	10330	10270	10190	10220	9804	10100	9226	9360	10470	10200
20	10180	10220	10160	10310	10210	10140	10280	10320	8693	9333	10020	10280
21	10600	10270	10030	10220	10190	10190	10330	10290	8512	9370	10020	9959
22	10560	10190	10270	10060	10120	10350	10330	10270	8489	9273	10020	10090
23	9880	10180	10350	9897	10150	9712	9969	9870	8560	9630	10080	10150
24	7307	10230	10170	10260	10160	10370	10050	9110	8605	9475	10110	10130
25	6048	10130	9945	10240	10160	10220	10110	8489	8531	9220	10070	10100
26	6608	10040	10160	10180	10210	10190	10310	8693	8566	9146	10250	10060
27	6631	10330	9935	10030	10370	10200	10100	9400	8745	9253	10350	9983
28	6637	10320	10270	10210	10270	10140	9987	10060	8673	9845	10500	9966
29	6552	10270	10270	10310	---	10290	10330	9983	8729	10260	10240	10040
30	6616	10310	10220	10120	---	10230	10080	9746	8784	10020	10110	10140
31	6608	---	10370	10110	---	10150	---	10010	---	10090	10160	---
MAX	10600	10600	10370	10370	10370	10530	10370	10470	10520	10260	10500	10390
MIN	6048	6616	9719	9405	9804	9712	9804	8489	8489	8537	9925	9897
(#)	4869.74	4881.30	4881.46	4880.75	4881.19	4880.82	4880.62	4880.42	4876.78	4880.66	4880.87	4880.80
(*)	-2215	+3702	+60	-260	+160	-120	-70	-70	-1226	+1306	+70	-20

CAL YR 1993 . . . . . (*) +180
WTR YR 1994 . . . . . (*) +1317

(#) 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 NE¼SE¼NW¼ sec. 26, T. 13 S., R. 40 E., Franklin County, Hydrologic Unit 16010202, on right bank 200 ft downstream from tailrace of Oneida plant and 6 mi south of Cleveland.

DRAINAGE AREA.--4,456 mi².

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

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

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

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

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

AVERAGE DISCHARGE.--73 years, 879 ft³/s, 636,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,480 ft³/s May 8, 1922; minimum, 3.0 ft³/s June 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,660 ft³/s Oct. 24; minimum daily discharge, 130 ft³/s Nov. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	450	340	697	357	436	948	657	464	891	1130	744	1030
2	284	516	137	391	359	721	669	588	871	1060	1280	854
3	267	340	403	369	363	595	195	338	687	1190	1120	924
4	327	260	832	594	397	648	321	361	730	1000	878	867
5	357	395	140	515	350	532	518	364	731	1050	960	825
6	333	317	145	342	392	1090	511	449	584	1150	975	628
7	515	145	445	481	569	182	714	289	764	751	1000	823
8	381	142	402	552	434	566	743	343	526	1240	1220	918
9	373	154	344	191	162	1030	426	279	709	977	1160	638
10	363	135	231	507	428	619	427	375	617	955	653	664
11	465	144	595	296	488	573	738	365	674	1120	851	763
12	614	130	881	364	379	692	474	532	724	1010	634	782
13	516	240	429	619	229	520	493	332	847	1110	1160	728
14	453	502	269	881	390	422	355	261	545	885	959	896
15	640	379	414	209	624	938	501	391	819	1120	1140	680
16	425	456	507	206	235	653	794	329	809	929	1090	647
17	298	326	511	341	466	756	479	454	1210	991	1130	502
18	165	365	390	596	194	931	451	331	1010	1070	1200	437
19	172	346	433	448	539	1140	548	337	1220	1180	893	739
20	204	618	163	473	348	882	487	351	1260	1100	1010	730
21	367	313	547	376	359	898	313	358	1270	889	872	456
22	947	515	343	502	398	862	450	203	1250	1060	1210	416
23	1430	356	485	363	463	1210	734	1200	1300	1060	1080	428
24	1660	296	371	351	326	303	278	883	1330	1290	990	418
25	357	267	581	317	548	675	364	837	1280	1110	997	384
26	304	315	220	450	950	596	223	338	1280	1010	1000	363
27	481	290	530	630	864	258	582	518	1500	1280	1020	400
28	408	428	317	450	615	350	537	747	1330	691	899	323
29	384	318	467	415	---	389	228	941	1430	997	1070	237
30	543	574	211	404	---	565	623	952	1640	942	982	247
31	339	---	491	269	---	577	---	537	---	1160	867	---
TOTAL	14822	9922	12931	13259	12305	21121	14833	15047	29838	32507	31044	18747
MEAN	478	331	417	428	439	681	494	485	995	1049	1001	625
MAX	1660	618	881	881	950	1210	794	1200	1640	1290	1280	1030
MIN	165	130	137	191	162	182	195	203	526	691	634	237
AC-FT	29400	19680	25650	26300	24410	41890	29420	29850	59180	64480	61580	37180

CAL YR 1993 TOTAL 226107 MEAN 619 MAX 1730 MIN 130 AC-FT 448500
WTR YR 1994 TOTAL 226376 MEAN 620 MAX 1660 MIN 130 AC-FT 449000

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

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

DRAINAGE AREA.--4,881 mi².

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Records fair. 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 June 14, 1984, gage height, 9.20 ft; minimum daily discharge, 48 ft³/s May 29, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,930 ft³/s Oct. 24; minimum daily discharge, 184 ft³/s Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	527	353	663	e420	382	1030	584	507	520	1200	584	774
2	312	472	649	e370	329	875	631	450	687	644	617	642
3	299	461	369	e380	407	714	376	556	509	802	734	652
4	295	244	524	e480	427	766	337	358	554	684	694	579
5	308	345	618	e550	298	676	465	378	558	540	747	559
6	335	381	236	e470	331	1060	631	394	415	632	492	504
7	384	275	301	e380	496	586	569	327	491	716	658	532
8	403	209	454	e470	490	414	563	388	302	495	564	330
9	399	208	381	e410	257	838	617	293	330	784	890	712
10	367	226	355	e320	369	969	529	269	317	628	678	354
11	339	221	514	e440	298	431	573	227	329	610	413	479
12	466	223	501	e300	556	627	600	409	347	641	565	489
13	510	217	905	e540	239	508	660	309	521	710	615	464
14	471	324	250	e680	356	481	354	207	373	591	708	524
15	523	489	454	e600	444	956	597	253	217	601	686	528
16	557	563	613	e230	428	755	558	235	457	752	664	686
17	474	395	e510	e270	399	732	609	248	588	663	769	423
18	240	415	e450	e470	375	837	522	314	759	576	724	345
19	214	384	e410	e530	e414	879	641	216	640	892	666	454
20	211	552	e330	e460	e450	1040	298	229	968	753	811	453
21	224	431	e390	e470	e330	855	511	220	923	740	624	536
22	434	401	e440	e400	367	860	524	218	853	719	764	305
23	897	517	e460	e480	415	1280	778	309	802	570	688	285
24	1930	395	e470	e360	464	484	477	794	806	831	658	287
25	1290	411	e430	e370	669	669	373	749	953	979	709	264
26	253	408	e400	486	1140	596	467	493	923	767	617	244
27	354	358	e340	502	1250	415	600	200	950	767	713	240
28	475	481	e470	363	970	355	512	344	962	509	604	246
29	550	556	e350	382	---	406	413	650	913	514	720	197
30	432	586	e370	485	---	567	471	798	1050	545	752	184
31	376	---	e360	284	---	651	---	578	---	777	540	---
TOTAL	14849	11501	13967	13352	13350	22312	15840	11920	19017	21632	20668	13271
MEAN	479	383	451	431	477	720	528	385	634	698	667	442
MAX	1930	586	905	680	1250	1280	778	798	1050	1200	890	774
MIN	211	208	236	230	239	355	298	200	217	495	413	184
AC-FT	29450	22810	27700	26480	26480	44260	31420	23640	37720	42910	40990	26320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1994, BY WATER YEAR (WY)

MEAN	1036	1059	1088	1082	1079	1247	1487	1596	1444	1122	986	1004
MAX	2850	2983	2552	1904	2556	3264	3594	3968	4263	3442	2416	2545
(WY)	1984	1984	1985	1984	1986	1986	1986	1986	1986	1983	1984	1986
MIN	250	298	310	412	351	351	403	357	333	473	461	192
(WY)	1993	1993	1982	1993	1993	1991	1992	1988	1989	1982	1993	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1971 - 1994	
ANNUAL TOTAL	254711		191679			
ANNUAL MEAN	698		525		1186	
HIGHEST ANNUAL MEAN					2728	1984
LOWEST ANNUAL MEAN					505	1992
HIGHEST DAILY MEAN	2650	May 7	1930	Oct 24	4830	Jun 21 1983
LOWEST DAILY MEAN	154	Jul 7	184	Sep 30	48	May 29 1988
ANNUAL SEVEN-DAY MINIMUM	180	Jul 1	226	Nov 7	69	Oct 31 1981
ANNUAL RUNOFF (AC-FT)	505200		380200		859200	
10 PERCENT EXCEEDS	1670		802		2360	
50 PERCENT EXCEEDS	472		489		938	
90 PERCENT EXCEEDS	298		273		324	

e Estimated

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

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: May 1986 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION: Maximum daily mean, 18,600 mg/L, Mar. 24, 1989; minimum daily mean, 6 mg/L, Oct. 22, 1990, Nov. 11, 1992.
SEDIMENT LOADS: Maximum daily, 59,900 tons, Mar. 12, 1989; minimum daily, 2.3 tons, Oct. 19, 1989, Oct. 22, 1990.

EXTREMES FOR CURRENT YEAR:
SEDIMENT CONCENTRATIONS: Maximum daily mean, 592 mg/L, Sept. 21; minimum daily mean, 11 mg/L, Oct. 18, Jan. 16.
SEDIMENT LOADS: Maximum daily, 1,150 tons, July 1; minimum daily, 6.8 tons, Oct. 20.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	112	159	18	17	e42	e76	e24	e27	e21	e22	e73	e204
2	76	64	20	25	e41	e72	e20	e20	e18	e16	e60	e142
3	58	47	15	19	e20	e20	e21	e22	e23	e25	e47	e90
4	55	44	23	15	e32	e45	e29	e37	e24	e28	e51	e105
5	49	41	24	22	e39	e65	e34	e50	e16	e13	e43	e79
6	44	40	29	30	e12	e7.4	e28	e35	e18	e16	e76	e218
7	39	40	21	16	e16	e13	e21	e22	e30	e40	e37	e58
8	44	48	33	19	e26	e32	e28	e35	e29	e38	e23	e26
9	58	62	39	22	e21	e22	e23	e26	e13	e9.0	e57	e128
10	30	30	33	20	e20	e19	e17	e15	e20	e20	e68	e178
11	30	27	38	23	e31	e43	e25	e30	e16	e13	e25	e29
12	26	33	29	17	e30	e40	e16	e13	e34	e51	e40	e67
13	35	48	42	25	e63	e153	e33	e48	e12	e7.6	e31	e42
14	25	32	58	51	e13	e8.5	e44	e80	e20	e19	e28	e37
15	20	28	58	77	e26	e32	e38	e61	e26	e31	e67	e173
16	18	27	73	111	e39	e64	e11	e7.0	e24	e28	e50	e102
17	18	23	e22	e24	e31	e42	e14	e10	e22	e24	e48	e95
18	11	7.1	e23	e26	e26	e32	e28	e35	e21	e21	e57	e128
19	13	7.5	e21	e22	e23	e26	e32	e46	e23	e26	e60	e143
20	12	6.8	e34	e50	e18	e16	e27	e33	e26	e32	e74	e209
21	16	9.7	e25	e29	e22	e23	e28	e35	e18	e16	e58	e134
22	23	27	e22	e24	e25	e30	e22	e24	e20	e20	e59	e136
23	31	75	e31	e43	e27	e33	e29	e37	e23	e26	e96	e333
24	72	375	e23	e24	e28	e35	e20	e19	e27	e34	e28	e37
25	62	216	e23	e26	e25	e29	e20	e20	e43	e77	e43	e77
26	28	19	e24	e26	e22	e24	e29	e38	e83	e257	e37	e60
27	27	26	e20	e19	e19	e17	e30	e41	e94	e316	e23	e26
28	26	33	e28	e37	e28	e35	e20	e20	e68	e179	e20	e19
29	22	33	e34	e51	e19	e18	e21	e22	---	---	e23	e25
30	21	24	e37	e58	e20	e20	e29	e38	---	---	49	75
31	16	16	---	---	e20	e19	e14	e11	---	---	129	227
TOTAL	---	1668.1	---	968	---	1110.9	---	957.0	---	1404.6	---	3402

DAY	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	157	248	e110	e150	49	69	355	1150	37	58	115	240
2	209	356	e98	e119	65	121	191	332	41	68	115	199
3	267	271	e119	e179	68	93	164	355	56	111	172	303
4	182	166	e44	e43	52	78	189	349	48	90	206	322
5	168	211	36	37	54	81	177	258	69	139	217	328
6	201	342	54	57	73	82	148	253	48	64	202	275
7	152	234	e40	e35	76	101	53	102	46	82	211	303
8	147	223	e49	e51	85	69	67	90	38	58	230	205
9	174	290	51	40	84	75	32	68	52	125	256	492
10	182	260	46	33	70	60	49	83	46	84	196	187
11	101	156	72	44	107	95	38	63	27	30	287	371
12	213	345	90	99	69	65	29	50	38	58	211	279
13	197	351	65	54	208	293	53	102	25	42	202	253
14	147	141	43	24	125	126	28	45	37	71	241	341
15	117	189	44	30	78	46	47	76	27	50	215	307
16	59	89	e28	e18	198	244	74	150	23	41	262	485
17	69	113	e15	e10	311	494	48	86	41	85	370	423
18	78	110	23	19	430	881	25	39	37	72	e334	e311
19	54	93	31	18	323	558	64	154	e33	e59	e313	e384
20	42	34	52	32	422	1100	42	85	e38	e83	e537	e657
21	58	80	46	27	329	820	54	108	e20	e34	592	858
22	75	106	58	34	281	647	48	93	e25	e52	389	321
23	95	200	57	48	279	604	40	62	e18	e33	300	231
24	55	71	71	152	273	594	40	90	e20	e36	419	325
25	e52	e53	102	206	292	751	42	111	34	65	289	206
26	e102	e128	87	116	314	783	51	106	34	57	338	223
27	e122	e197	56	30	213	546	42	87	80	154	266	172
28	e111	e153	84	78	244	634	35	48	90	147	307	204
29	e65	e73	65	114	207	510	46	64	115	224	227	121
30	e78	e110	92	198	250	709	45	66	116	236	161	80
31	---	---	67	105	---	---	48	101	118	172	---	---
TOTAL	---	5393	---	2200	---	11329	---	4826	---	2680	---	9406

YEAR 45344.6

e Estimated

10102250 BEAR RIVER NEAR SMITHFIELD, UT

LOCATION.--Lat 41°50'24", long 111°52'51", in NW¼SW¼NE¼ sec. 30, R. 1 E., T. 13 N., Cache County, Cache Hydrologic Unit 16010202, on the left abutment of abandoned highway bridge, 0.6 miles upstream from the mouth of Summit Creek, and 2.6 miles west of Smithfield.

DRAINAGE AREA.--5,193 mi².

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

PERIOD OF RECORD.--April 1964 to September 1978, October 1989 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,399.89 ft above sea level (Utah State Highway benchmark).

REMARKS.--Records poor Oct. 1 to May 4 and fair thereafter. 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, 5,850 ft³/s June 13, 14, 1971, gage height, 14.46 ft; minimum, 75 ft³/s Apr. 26, 1977.

EXTREMES FOR CURRENT YEAR.--Maxium daily discharge, 1,600 ft³/s Feb. 28; minimum daily discharge, 319 ft³/s Nov. 9, Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	742	510	e694	e412	e384	e1130	e688	e712	699	1080	893	689
2	643	e497	e819	e486	423	e1190	e734	e702	832	956	646	825
3	445	e548	e750	e384	418	e1060	e770	760	913	772	834	705
4	438	550	e542	e438	487	e898	e500	e706	704	865	848	771
5	440	e386	805	e497	562	e1070	e556	614	702	777	736	712
6	453	e468	657	e461	447	e912	e738	612	689	686	745	669
7	e489	e494	380	e463	492	e1070	e688	677	550	780	705	571
8	524	375	e458	e446	e601	e766	e731	670	629	753	755	652
9	e610	319	e573	e434	524	e657	e763	750	443	738	775	619
10	527	e339	476	e414	346	e998	e783	663	500	832	900	631
11	511	329	441	e405	460	e915	e776	651	429	737	616	509
12	e510	e345	e616	e374	518	e700	e894	593	432	787	662	599
13	e610	335	e657	e434	457	e786	e789	776	458	780	607	610
14	e642	e352	e760	e863	359	e691	e802	684	492	835	834	584
15	e651	e513	e368	e443	528	e698	e645	594	375	723	763	660
16	e712	e558	e345	e458	e595	e984	e779	634	357	804	837	664
17	644	e576	e613	e407	422	e901	e922	572	457	706	835	663
18	578	e510	e598	e431	e613	e962	e829	561	627	776	839	536
19	389	e481	e515	e518	490	e1050	e826	525	665	785	853	468
20	357	e463	e476	e521	575	e1140	e948	416	634	885	696	598
21	356	e604	e345	e523	464	e1140	e789	355	821	828	869	573
22	e407	e529	e510	e507	465	e1140	884	345	823	772	759	580
23	e725	e570	e421	e537	479	e1260	e955	327	824	773	874	443
24	e1140	e553	e494	e356	562	e1330	e1160	611	825	776	800	426
25	1520	e424	e553	e384	e601	793	e894	710	840	925	776	414
26	1120	e446	e567	e446	e1080	851	e776	748	894	948	793	383
27	454	e471	e494	e497	e1440	813	e738	473	896	879	788	361
28	e542	e489	e502	e564	e1600	558	e846	412	963	924	779	355
29	606	e567	e438	e451	---	534	e816	589	935	633	713	343
30	e616	e678	e379	470	---	e666	e636	817	949	729	824	319
31	e570	---	e426	480	---	e725	---	891	---	741	770	---
TOTAL	18971	14279	16672	14504	16392	28388	23655	19150	20357	24985	24124	16932
MEAN	612	476	538	468	585	916	788	618	679	806	778	564
MAX	1520	678	819	863	1600	1330	1160	891	963	1080	900	825
MIN	356	319	345	356	346	534	500	327	357	633	607	319
AC-FT	37630	28320	33070	28770	32510	56310	46920	37980	40380	49560	47850	33580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965-78, 1990-94, BY WATER YEAR (WY)

MEAN	898	975	1124	1208	1111	1358	1589	1817	1537	1004	921	921
MAX	2145	2034	2097	2262	2078	2585	2921	3536	4844	2153	1462	1855
(WY)	1976	1976	1972	1972	1972	1972	1976	1971	1971	1971	1971	1971
MIN	280	239	377	411	450	475	468	618	652	562	582	239
(WY)	1978	1993	1991	1991	1991	1991	1977	1994	1969	1992	1993	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1965-78, 1990-94	
ANNUAL TOTAL	348601		238409			
ANNUAL MEAN	955		653		1205	
HIGHEST ANNUAL MEAN					2209	1972
LOWEST ANNUAL MEAN					559	1992
HIGHEST DAILY MEAN	3200	May 24	1600	Feb 28	5810	Jun 14 1971
LOWEST DAILY MEAN	319	Nov 9	319	Nov 9	79	Apr 26 1977
ANNUAL SEVEN-DAY MINIMUM	342	Nov 8	342	Nov 8	157	Apr 22 1977
ANNUAL RUNOFF (AC-FT)	691400		472900		873300	
10 PERCENT EXCEEDS	2310		900		2190	
50 PERCENT EXCEEDS	612		633		1030	
90 PERCENT EXCEEDS	424		410		426	

e Estimated

10105900 LITTLE BEAR RIVER AT PARADISE, UT

LOCATION.--LAT 41°34'32", long 111°51'16" in NW¼NE¼SE¼ sec 29, T. 10 N., R. 1 E., Cache County, Hydrologic Unit 16010203, on left bank 1 mi west of Paradise, Utah.

DRAINAGE AREA.--

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

GAGE.--Water-stage recorder. Elevation of gage is 4,740 ft above sea level, from topographic map. Prior to Aug. 11, 1994, 50 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow affected by small diversions for irrigation and flow from a fish hatchery above the station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,030 ft³/s May 7, 1993, gage height, 10.13 ft, site and datum then in use; minimum daily discharge, 4.4 ft³/s Feb. 10, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 551 ft³/s Apr. 22, gage height, 8.32 ft; minimum daily discharge, 9.8 ft³/s July 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	22	29	19	23	e69	119	154	44	10	23	19
2	17	22	26	19	22	e73	98	148	41	10	22	19
3	17	22	25	24	21	e76	118	145	39	9.9	22	19
4	16	23	25	36	21	e79	120	151	37	9.8	20	19
5	15	23	24	40	20	e82	81	166	34	10	19	19
6	17	23	24	34	20	e85	77	187	32	12	19	19
7	26	24	24	27	27	e86	95	199	e29	14	19	19
8	28	24	25	29	56	e87	86	187	e26	19	20	20
9	26	24	27	30	31	e85	88	173	e23	21	21	20
10	25	25	26	29	29	e83	224	178	e21	21	e21	20
11	26	25	26	27	29	e79	217	182	e19	23	e19	20
12	26	25	30	27	26	e76	145	190	e18	21	20	19
13	24	25	24	27	30	e77	144	206	e17	23	20	19
14	25	25	26	28	29	e78	171	176	e15	23	20	20
15	26	24	26	28	28	e80	248	134	e13	23	19	20
16	30	24	25	27	26	e83	331	121	e12	23	19	19
17	27	24	24	26	54	e90	350	102	11	23	19	19
18	26	24	22	26	74	e97	398	86	12	24	19	19
19	25	22	24	26	41	e109	441	75	13	24	19	19
20	25	22	23	26	35	e99	462	66	12	25	19	20
21	25	23	22	25	33	e94	461	57	12	24	19	20
22	24	28	22	25	31	e101	489	51	12	23	19	20
23	24	33	22	25	31	e115	461	e47	13	23	19	20
24	24	27	21	27	e33	86	372	e44	14	23	19	20
25	24	30	21	26	e38	88	313	e42	13	24	20	23
26	23	18	21	26	e46	96	280	e41	12	23	20	24
27	23	48	21	26	e55	83	248	e40	13	23	20	24
28	23	31	21	24	e63	90	210	e38	12	24	20	22
29	24	31	20	23	---	82	179	e35	11	23	19	24
30	23	31	20	24	---	74	148	e38	10	23	19	28
31	23	---	20	20	---	78	---	41	---	23	19	---
TOTAL	726	772	736	826	972	2660	7174	3500	590	624.7	612	612
MEAN	23.4	25.7	23.7	26.6	34.7	85.8	239	113	19.7	20.2	19.7	20.4
MAX	30	48	30	40	74	115	489	206	44	25	23	28
MIN	15	18	20	19	20	69	77	35	10	9.8	19	19
AC-FT	1440	1530	1460	1640	1930	5280	14230	6940	1170	1240	1210	1210

CAL YR 1993 TOTAL 32057.4 MEAN 87.8 MAX 768 MIN 4.4 AC-FT 63590
WTR YR 1994 TOTAL 19804.7 MEAN 54.3 MAX 489 MIN 9.8 AC-FT 39280

e Estimated

10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT

LOCATION.--Lat 41°44'35", long 111°45'40", in NE¼NW¼NE¼ 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 sea level (Bureau of Public Roads bench mark).

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

AVERAGE DISCHARGE.--31 years, 23.0 ft³/s, 16,680 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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	6.7	.00	e.00	e.00	e.00	.00	31	46	44	e33	27
2	29	3.7	.00	e.00	e.00	e.00	.00	31	44	43	e33	27
3	29	.13	.00	e.00	e.00	e.00	.00	31	44	43	e33	27
4	29	.13	.00	e.00	e.00	e.00	.00	31	48	44	e33	27
5	29	.13	.00	e.00	e.00	e.00	.00	33	49	43	e32	27
6	29	.13	.00	e.00	e.00	e.00	.00	41	49	43	e32	26
7	25	.10	.00	e.00	e.00	e.00	1.0	44	50	43	e32	25
8	21	.07	.00	e.00	e.00	e.00	1.2	43	50	43	e32	25
9	20	.07	.00	e.00	e.00	e.00	.52	43	49	43	32	25
10	20	.07	.00	e.00	e.00	e.00	.00	44	49	43	32	25
11	20	.07	.00	e.00	e.00	e.00	.00	43	48	44	33	25
12	20	.07	.00	e.00	e.00	e.00	.00	45	49	44	33	25
13	20	.07	.00	e.00	e.00	e.00	.00	46	49	43	32	25
14	20	.07	e.00	e.00	e.00	e.00	.00	46	49	44	33	23
15	16	.07	e.00	e.00	e.00	e.00	.00	46	50	43	32	21
16	13	.40	e.00	e.00	e.00	e.00	.00	45	52	44	31	21
17	13	.73	e.00	e.00	e.00	e.00	.00	45	52	39	29	21
18	13	.73	e.00	e.00	e.00	e.00	.03	43	52	33	29	21
19	12	.73	e.00	e.00	e.00	e.00	.02	41	52	35	29	22
20	12	.73	e.00	e.00	e.00	e.00	.00	41	53	38	29	22
21	12	.73	e.00	e.00	e.00	.00	.00	42	53	38	29	22
22	12	.73	e.00	e.00	e.00	.00	.00	43	53	38	29	22
23	12	.38	e.00	e.00	e.00	.00	3.3	45	53	36	27	22
24	12	.00	e.00	.00	e.00	.00	14	45	53	34	27	22
25	11	.00	e.00	e.00	e.00	.00	19	46	51	33	27	22
26	11	.00	e.00	e.00	e.00	.00	19	47	48	32	27	22
27	11	.00	e.00	e.00	e.00	1.1	19	47	45	33	27	22
28	11	.00	e.00	e.00	e.00	.65	19	48	45	33	27	22
29	11	.00	e.00	e.00	---	.00	26	48	44	33	27	22
30	10	.00	e.00	e.00	---	.00	31	48	44	33	27	22
31	10	---	e.00	e.00	---	.00	---	47	---	33	27	---
TOTAL	542	16.74	0.00	0.00	0.00	1.75	153.07	1319	1473	1215	935	707
MEAN	17.5	.56	.000	.000	.000	.056	5.10	42.5	49.1	39.2	30.2	23.6
MAX	29	6.7	.00	.00	.00	1.1	31	48	53	44	33	27
MIN	10	.00	.00	.00	.00	.00	.00	31	44	32	27	21
AC-FT	1080	33	.00	.00	.00	3.5	304	2620	2920	2410	1850	1400

CAL YR 1993 TOTAL 6110.97 MEAN 16.7 MAX 52 MIN .00 AC-FT 12120
WTR YR 1994 TOTAL 6362.56 MEAN 17.4 MAX 53 MIN .00 AC-FT 12620

e Estimated

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT

LOCATION.--Lat 41°44'36", long 111°46'55", in NW¼NW¼NE¼ sec. 36, T. 12 N., R. 1 E., Cache County, Hydrologic Unit 16010203, 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.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,680 ft above sea level, 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 Sept. 3, 1938, water-stage recorder at present site at different datums.

REMARKS.--Records fair. 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: 81 years (water years 1914-94), 144 ft³/s, 104,300 acre-ft/yr.
Combined river and canal: 98 years, 269 ft³/s, 194,900 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.--River only: Maximum discharge, 626 ft³/s May 14, gage height, 3.94 ft; minimum daily discharge, 75 ft³/s, Sept. 27, 28.
Combined river and canal: Maximum daily discharge, 641 ft³/s May 14; minimum daily discharge, 83 ft³/s Jan. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	120	112	105	87	104	144	203	366	144	104	84
2	124	124	113	106	89	104	148	195	359	143	104	83
3	123	120	110	105	91	105	158	204	341	142	103	83
4	121	126	112	107	91	107	168	222	327	140	103	84
5	119	121	111	112	93	109	149	247	311	138	102	82
6	120	121	112	108	97	109	145	293	299	133	102	81
7	126	121	112	102	100	107	139	356	283	133	102	81
8	134	120	113	100	99	105	132	355	268	130	99	78
9	131	118	115	110	96	108	135	377	207	125	101	80
10	128	122	110	105	99	106	143	439	247	122	97	79
11	128	119	109	101	98	106	152	468	236	120	99	80
12	130	118	114	101	88	106	157	524	233	120	96	79
13	127	118	111	101	91	106	168	583	229	118	96	80
14	128	119	108	102	96	109	182	595	224	116	92	82
15	138	114	110	101	95	115	184	548	215	114	91	83
16	138	113	110	100	97	118	190	536	204	114	94	81
17	131	113	108	98	94	121	218	504	196	118	93	78
18	130	118	104	98	103	124	235	446	192	120	92	78
19	125	109	103	99	97	168	268	419	185	115	92	77
20	125	110	95	98	92	143	305	403	179	113	90	79
21	128	112	103	96	96	134	340	375	179	112	88	77
22	126	120	97	97	93	144	377	359	177	111	90	77
23	125	118	103	97	93	132	417	360	170	110	90	77
24	123	112	99	100	95	126	376	359	165	109	89	76
25	123	105	102	98	106	125	324	366	162	107	89	78
26	121	101	104	98	102	127	294	373	159	106	88	77
27	121	102	105	99	107	124	269	384	159	106	89	75
28	122	118	107	98	104	126	245	418	155	107	89	75
29	122	122	105	96	---	128	223	404	151	107	85	82
30	120	116	105	93	---	130	205	383	148	107	84	80
31	120	---	106	83	---	134	---	375	---	105	84	---
TOTAL	3900	3490	3328	3114	2689	3710	6590	12073	6726	3705	2917	2386
MEAN	126	116	107	100	96.0	120	220	389	224	120	94.1	79.5
MAX	138	126	115	112	107	168	417	595	366	144	104	84
MIN	119	101	95	83	87	104	132	195	148	105	84	75
AC-FT	7740	6920	6600	6180	5330	7360	13070	23950	13340	7350	5790	4730

CAL YR 1993 TOTAL 95665 MEAN 262 MAX 1180 MIN 56 AC-FT 189800
WTR YR 1994 TOTAL 54628 MEAN 150 MAX 595 MIN 75 AC-FT 108400

LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT--Continued

10109001 COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LOGAN RIVER ABOVE STATE DAM AND LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	127	112	105	87	104	144	234	412	188	137	111
2	153	128	113	106	89	104	148	226	403	186	137	110
3	152	120	110	105	91	105	158	235	385	185	136	110
4	150	126	112	107	91	107	168	253	375	184	136	111
5	148	121	111	112	93	109	149	280	360	181	134	109
6	149	121	112	108	97	109	145	334	348	176	134	107
7	151	121	112	102	100	107	140	400	333	176	134	106
8	155	120	113	100	99	105	133	398	318	173	131	103
9	151	118	115	110	96	108	136	420	256	168	133	105
10	148	122	110	105	99	106	143	483	296	165	129	104
11	148	119	109	101	98	106	152	511	284	164	132	105
12	150	118	114	101	88	106	157	569	282	164	129	104
13	147	118	111	101	91	106	168	629	278	161	128	105
14	148	119	108	102	96	109	182	641	273	160	125	105
15	154	114	110	101	95	115	184	594	265	157	123	104
16	151	113	110	100	97	118	190	581	256	158	125	102
17	144	114	108	98	94	121	218	549	248	157	122	99
18	143	119	104	98	103	124	235	489	244	153	121	99
19	137	110	103	99	97	168	268	460	237	150	121	99
20	137	111	95	98	92	143	305	444	232	151	119	101
21	140	113	103	96	96	134	340	417	232	150	117	99
22	138	121	97	97	93	144	377	402	230	149	119	99
23	137	118	103	97	93	132	420	405	223	146	117	99
24	135	112	99	100	95	126	390	404	218	143	116	98
25	134	105	102	98	106	125	343	412	213	140	116	100
26	132	101	104	98	102	127	313	420	207	138	115	99
27	132	102	105	99	107	125	288	431	204	139	116	97
28	133	118	107	98	104	127	264	466	200	140	116	97
29	133	122	105	96	---	128	249	452	195	140	112	104
30	130	116	105	93	---	130	236	431	192	140	111	102
31	130	---	106	83	---	134	---	422	---	138	111	---
TOTAL	4442	3507	3328	3114	2689	3712	6743	13392	8199	4920	3852	3093
MEAN	143	117	107	100	96.0	120	225	432	273	159	124	103
MAX	155	128	115	112	107	168	420	641	412	188	137	111
MIN	130	101	95	83	87	104	133	226	192	138	111	97
AC-FT	8810	6960	6600	6180	5330	7360	13370	26560	16260	9760	7640	6130

CAL YR 1993 TOTAL 96224 MEAN 264 MAX 1180 MIN 56 AC-FT 190900
WTR YR 1994 TOTAL 60991 MEAN 167 MAX 641 MIN 83 AC-FT 121000

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT

LOCATION.--Lat 41°37'25", long 111°44'17", in SE¼NE¼NE¼ 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.

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for October 1913, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925. WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,020 ft above sea level, from topographic map. Oct. 2, 1934 to May 27, 1987 at site 1,200 ft downstream at different datum. Prior to Oct. 2, 1934, at site 200 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 19	1500	167	4.76	Apr. 21	0100	*298	*5.52
Mar. 22	2000	153	4.66				

Minimum discharge, 25 ft³/s Sept. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	76	74	71	59	81	119	149	109	78	69	61
2	86	77	74	71	60	82	116	146	105	76	68	61
3	85	77	73	70	60	81	124	146	104	77	68	61
4	84	77	74	71	61	82	132	150	102	77	68	61
5	82	76	74	75	61	83	116	158	100	79	67	61
6	83	76	74	73	63	81	112	167	98	79	67	61
7	84	76	74	69	68	82	115	176	97	79	67	61
8	86	77	74	68	70	80	112	171	94	78	67	60
9	85	76	75	71	66	80	109	165	94	77	68	59
10	82	76	73	69	67	80	128	166	94	76	68	59
11	81	77	73	68	67	78	123	165	93	75	68	60
12	83	76	76	69	62	82	125	164	93	74	66	61
13	79	75	73	69	62	86	138	161	89	69	66	61
14	79	75	74	68	64	87	162	159	89	72	65	61
15	82	75	74	68	65	91	163	154	88	72	65	62
16	82	75	73	68	65	92	175	148	86	72	64	61
17	79	75	72	68	66	95	205	144	87	71	63	60
18	77	75	70	67	71	92	230	137	86	72	63	60
19	77	74	70	67	67	127	248	131	84	71	64	59
20	77	73	65	67	64	111	260	130	83	71	64	61
21	77	74	67	67	65	101	273	127	85	71	64	61
22	76	78	66	67	64	136	274	124	86	70	63	61
23	76	79	67	67	64	125	269	121	85	71	65	61
24	76	75	65	66	66	112	230	118	84	70	63	61
25	76	70	66	66	72	112	209	116	83	70	62	61
26	77	62	67	65	74	110	192	114	81	70	62	61
27	77	65	72	65	76	105	188	114	78	69	62	61
28	75	72	72	65	79	102	170	113	79	69	63	62
29	79	73	70	65	---	105	161	112	78	69	62	64
30	77	75	70	64	---	103	152	110	78	69	61	64
31	76	---	71	60	---	107	---	106	---	68	61	---
TOTAL	2481	2237	2212	2104	1848	2971	5130	4362	2692	2261	2013	1828
MEAN	80.0	74.6	71.4	67.9	66.0	95.8	171	141	89.7	72.9	64.9	60.9
MAX	86	79	76	75	79	136	274	176	109	79	69	64
MIN	75	62	65	60	59	78	109	106	78	68	61	59
AC-FT	4920	4440	4390	4170	3670	5890	10180	8650	5340	4480	3990	3630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1994, BY WATER YEAR (WY)

MEAN	92.8	87.2	82.4	78.7	81.3	103	217	300	174	123	107	97.0
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 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1915 - 1994	
ANNUAL TOTAL	46157		32139			
ANNUAL MEAN	126		88.1		129	
HIGHEST ANNUAL MEAN					295	1984
LOWEST ANNUAL MEAN					53.0	1941
HIGHEST DAILY MEAN	435	May 7	274	Apr 22	1530	May 15 1984
LOWEST DAILY MEAN	40	Jan 5	59	Feb 1	26	Dec 23 1990
ANNUAL SEVEN-DAY MINIMUM	43	Jan 1	60	Sep 5	35	Dec 19 1990
ANNUAL RUNOFF (AC-FT)	91550		63750		93260	
10 PERCENT EXCEEDS	262		136		230	
50 PERCENT EXCEEDS	90		75		95	
90 PERCENT EXCEEDS	50		62		57	

10116500 CUTLER RESERVOIR NEAR COLLINSTON, UT

LOCATION.--Lat 41°50'13", long 112°02'51", in NW1/4NW1/4SW1/4 sec. 26, T. 13 N., R. 2 W., Box Elder County, Hydrologic Unit 16010204, 2 mi north of Beaver Dam, 6 mi north of Collinston.

DRAINAGE AREA (REVISED).--6,265 mi².

PERIOD OF RECORD.--October 1927 to current year.

GAGE.--Elevation of gage is 4,000 ft, Utah Power and Light Co. datum.

REMARKS.--New capacity table being used from Oct. 1, 1992.

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 16,470 acre-ft June 2, 3, elevation, 4,407.65 ft; minimum, 5,208 acre-ft June 20, elevation, 4,405.70 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14640	13940	15360	13940	12240	14640	12240	11910	15360	8887	13590	13250
2	15000	14640	15000	14290	12240	15360	11910	12570	16470	10020	13590	13590
3	15000	14640	15730	13940	11260	12570	13250	14640	16470	10320	13250	13940
4	14640	15510	14640	13940	13940	13590	12570	12240	13940	10320	13590	13940
5	14290	15000	14640	13940	13250	15000	13250	12240	13590	10630	13590	13940
6	14640	14640	15000	14640	12910	12910	13250	12910	13590	10320	13250	13940
7	14640	15360	14290	13590	12570	13250	13250	12910	13590	10320	12910	14290
8	13940	15360	14640	12570	12240	14290	15360	13940	13250	10630	12570	13940
9	14640	13940	14290	12570	12910	12570	14640	13940	13450	10320	12240	13590
10	14640	15360	12910	12570	13250	14290	15360	13940	12570	10630	12570	13590
11	14640	13940	14290	13940	11260	11580	14640	13250	12170	10940	12570	13590
12	14640	15360	15000	15360	13250	12240	13590	13940	10940	11260	11910	13590
13	15000	15000	15000	13250	12910	13590	12570	14640	10320	11260	11910	13250
14	15000	15000	15000	13940	12910	13940	13250	13940	8887	11580	11580	13250
15	15360	15360	14290	13590	13250	13940	14290	13590	8887	11910	11910	13590
16	15360	15000	13250	13590	14640	12910	14640	13590	6885	11910	11910	13940
17	13940	15360	12570	13590	13940	13250	14640	12910	6009	11910	11910	14640
18	13940	14290	13250	13250	15730	14640	13250	12570	5599	11910	11910	15000
19	13940	14290	13590	13940	14640	13940	14640	13250	5599	11260	11910	15220
20	14290	15360	12570	13940	13250	12910	15360	13590	5208	12240	11910	15000
21	14640	15360	13590	15000	13940	15360	15360	13250	5401	12570	11910	15360
22	13940	15360	13250	13940	14640	15360	14640	12240	5801	12570	11910	15360
23	13940	15000	12570	13250	13940	13250	13940	11260	6009	12570	12240	15360
24	14290	14640	12570	13250	14290	13250	14290	10750	6221	12570	12570	15360
25	15360	14640	13250	12570	14640	13940	13250	11520	6350	12910	12570	15360
26	15000	15360	12570	13250	13250	12570	14640	12570	6437	13590	12570	15360
27	13590	15360	13590	13250	15000	13250	13250	12910	6885	13940	12570	15000
28	13940	14640	13250	13590	15360	14290	13250	12570	7354	14290	12570	14640
29	14640	15000	12240	13250	---	12910	14640	12570	7843	14290	12570	14640
30	14290	15360	12910	13590	---	12910	13250	13590	8096	13590	12910	14640
31	14290	---	13590	12570	---	14290	---	14640	---	13250	12910	---
MAX	15360	15510	15730	15360	15730	15360	15360	14640	16470	14290	13590	15360
MIN	13590	13940	12240	12570	11260	11580	11910	10750	5208	8887	11580	13250
(#)	4407.35	4407.50	4407.25	4407.10	4407.50	4407.35	4407.20	4407.40	4406.35	4407.20	4407.15	4407.40
(*)	-380	+1070	-1770	-1020	+2790	-1070	-1040	+1390	-6544	+5154	-340	+1730

CAL YR 1993 . . . . . (*) +4949
WTR YR 1994 . . . . . (*) -30

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

10117000 HAMMOND (EAST SIDE) CANAL NEAR COLLINSTON, UT

LOCATION.--Lat 41°49'51", long 112°03'24", in SE¼ 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.

PERIOD OF RECORD.--June 1912 to current year. Prior to 1915, published as Hammond Ditch near Collingston. 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 fair. 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 Utah Power & Light Co.

AVERAGE DISCHARGE.--80 years (water years 1913-81, 1983-94), 52.0 ft^3/s, 37,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 184 ft^3/s June 29, 1963, May 2, 1977; no flow at times in each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	33	.00	.00	.00	.00	.00	109	165	158	151	151
2	93	9.7	.00	.00	.00	.00	.00	105	165	152	150	151
3	93	.00	.00	.00	.00	.00	.00	117	165	149	151	151
4	92	.00	.00	.00	.00	.00	.00	120	165	151	151	151
5	93	.00	.00	.00	.00	.00	.00	122	165	150	151	139
6	93	.00	.00	.00	.00	.00	.00	132	167	145	151	132
7	86	.00	.00	.00	.00	.00	.00	147	166	145	148	133
8	77	.00	.00	.00	.00	.00	.00	160	85	148	140	134
9	76	.00	.00	.00	.00	.00	.00	163	65	148	141	136
10	76	.00	.00	.00	.00	.00	.00	162	76	148	141	135
11	68	.00	.00	.00	.00	.00	.00	164	71	149	141	135
12	63	.00	.00	.00	.00	.00	.00	167	70	150	140	135
13	63	.00	.00	.00	.00	.00	.00	168	71	150	140	134
14	58	.00	.00	.00	.00	.00	.00	166	76	150	142	134
15	50	.00	.00	.00	.00	.00	.00	166	75	149	148	130
16	48	.00	.00	.00	.00	.00	.00	165	75	151	149	125
17	48	.00	.00	.00	.00	.00	.00	165	75	150	149	124
18	48	.00	.00	.00	.00	.00	.00	164	75	150	150	125
19	47	.00	.00	.00	.00	.00	.00	163	105	149	150	125
20	47	.00	.00	.00	.00	.00	.00	162	162	149	150	124
21	48	.00	.00	.00	.00	.00	.00	161	167	150	150	124
22	48	.00	.00	.00	.00	.00	.00	160	170	151	151	124
23	48	.00	.00	.00	.00	.00	.00	159	170	149	152	120
24	47	.00	.00	.00	.00	.00	.00	163	169	149	149	114
25	48	.00	.00	.00	.00	.00	.00	163	166	149	149	114
26	48	.00	.00	.00	.00	.00	.00	162	165	150	149	111
27	48	.00	.00	.00	.00	.00	.00	162	165	150	150	107
28	49	.00	.00	.00	.00	.00	97	162	166	152	151	101
29	49	.00	.00	.00	---	.00	104	163	167	152	151	93
30	49	.00	.00	.00	---	.00	113	163	152	150	151	88
31	49	---	.00	.00	---	.00	---	165	---	151	151	---
TOTAL	1943	42.70	0.00	0.00	0.00	0.00	314.00	4770	3896	4644	4588	3800
MEAN	62.7	1.42	.000	.000	.000	.000	10.5	154	130	150	148	127
MAX	93	33	.00	.00	.00	.00	113	168	170	158	152	151
MIN	47	.00	.00	.00	.00	.00	.00	105	65	145	140	88
AC-FT	3850	85	.00	.00	.00	.00	623	9460	7730	9210	9100	7540

10117500 WEST SIDE CANAL NEAR COLLINSTON, UT

LOCATION.--Lat 41°49'55", 112°03'36", in SW$^1/_4$ 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 fair. 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 Utah Power & Light Co.

AVERAGE DISCHARGE.--80 years (water years 1913-81, 1983-94), 251 ft^3/s, 181,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 787 ft^3/s June 23, 1986; no flow for periods in every year except 1914.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	439	15	.00	.00	.00	.00	.00	481	717	715	595	615
2	429	.00	.00	.00	.00	.00	.00	548	717	672	597	613
3	414	.00	.00	.00	.00	.00	.00	610	709	646	597	614
4	397	.00	.00	.00	.00	.00	.00	633	695	645	612	611
5	380	.00	.00	.00	.00	.00	.00	656	694	638	642	609
6	366	.00	.00	.00	.00	.00	.00	694	708	622	643	601
7	351	.00	.00	.00	.00	.00	.00	702	727	598	647	621
8	308	.00	.00	.00	.00	.00	.00	734	724	596	649	613
9	274	.00	.00	.00	.00	.00	.00	740	728	596	649	592
10	266	.00	.00	.00	.00	.00	.00	731	747	595	648	574
11	229	.00	.00	.00	.00	.00	.00	734	752	596	648	561
12	193	.00	.00	.00	.00	.00	.00	738	753	596	647	550
13	184	.00	.00	.00	.00	.00	.00	735	742	594	645	543
14	173	.00	.00	.00	.00	.00	.00	733	750	591	642	528
15	126	.00	.00	.00	.00	.00	.00	735	752	591	642	533
16	84	.00	.00	.00	.00	.00	.00	738	751	592	649	518
17	78	.00	.00	.00	.00	.00	.00	740	758	592	648	487
18	74	.00	.00	.00	.00	.00	.00	733	758	593	646	478
19	67	.00	.00	.00	.00	.00	.00	717	758	593	647	480
20	62	.00	.00	.00	.00	.00	.00	726	748	596	650	481
21	58	.00	.00	.00	.00	.00	.00	732	747	596	649	481
22	53	.00	.00	.00	.00	.00	.00	725	747	596	650	473
23	47	.00	.00	.00	.00	.00	.00	725	744	596	652	453
24	42	.00	.00	.00	.00	.00	.00	721	733	598	652	440
25	36	.00	.00	.00	.00	.00	.00	718	739	598	659	439
26	30	.00	.00	.00	.00	.00	.00	718	731	596	661	441
27	26	.00	.00	.00	.00	.00	.00	719	735	597	662	443
28	26	.00	.00	.00	.00	.00	378	723	735	596	663	427
29	25	.00	.00	.00	---	.00	375	722	736	596	662	406
30	23	.00	.00	.00	---	.00	409	724	642	595	656	403
31	19	---	.00	.00	---	.00	---	718	---	594	620	---
TOTAL	5279	15.00	0.00	0.00	0.00	0.00	1162.00	21803	21977	18815	19929	15628
MEAN	170	.50	.000	.000	.000	.000	38.7	703	733	607	643	521
MAX	439	15	.00	.00	.00	.00	409	740	758	715	663	621
MIN	19	.00	.00	.00	.00	.00	.00	481	642	591	595	403
AC-FT	10470	30	.00	.00	.00	.00	2300	43250	43590	37320	39530	31000

CAL YR 1993 TOTAL 90178.00 MEAN 247 MAX 759 MIN .00 AC-FT 178900
WTR YR 1994 TOTAL 104608.00 MEAN 287 MAX 758 MIN .00 AC-FT 207500

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.

WATER-DISCHARGE RECORDS

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 RCORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,276.13 ft above sea level (levels by Bureau of Reclamation). Prior to Nov. 8, 1913, nonrecording gage, and Nov. 8, 1913 to Sept. 10, 1938, water-stage recorder, at site 0.8 mi downstream at different datums.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by storage reservoir, power developments and diversions for irrigation.

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.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,870 ft³/s Apr. 24; minimum daily, 18 ft³/s, several days in July.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	673	336	1200	763	291	1970	1660	1000	36	43	19	31
2	711	1090	606	781	889	1980	1510	519	36	43	22	32
3	101	1100	1490	1340	674	1930	1460	456	1020	44	22	32
4	445	1220	1370	868	559	2030	1010	1060	646	34	23	32
5	391	678	1220	1080	1310	1540	1570	542	525	32	22	31
6	207	1250	1260	1310	638	1650	1310	706	96	34	21	31
7	811	967	1060	1330	1010	1030	1230	525	34	37	20	31
8	568	1090	320	914	1200	1660	1520	321	33	36	19	32
9	603	493	1600	1600	937	1330	1320	352	32	35	20	32
10	671	1020	872	652	594	1190	1690	761	30	35	21	32
11	636	655	1210	609	1160	1480	1620	743	32	30	21	32
12	858	840	771	994	672	1620	2150	206	32	23	22	32
13	686	692	1250	1190	1010	861	1950	249	31	22	22	32
14	1000	945	1550	618	889	1060	1070	1320	27	21	22	30
15	834	639	1240	1320	575	1630	1780	332	25	20	21	30
16	1280	1210	1010	1610	918	1530	1010	798	27	20	21	31
17	1060	1110	1620	685	863	1360	2520	33	29	19	21	32
18	891	905	204	925	1360	1330	1460	254	30	18	21	32
19	826	1460	1620	526	1410	1810	1430	32	31	19	22	28
20	305	707	929	860	1460	1920	2220	33	34	18	22	25
21	540	1050	526	973	846	1390	2450	34	34	18	21	26
22	395	1060	709	1030	1010	2190	2360	35	35	19	21	25
23	890	1300	1200	1300	1330	2460	1930	36	35	19	22	25
24	1400	1010	643	983	827	1830	2870	36	36	18	23	25
25	1460	806	916	1210	1520	2280	2320	36	38	18	23	25
26	1970	1090	1020	258	2550	1910	1620	36	38	18	23	25
27	419	629	1070	1130	1940	1460	1730	37	40	18	22	26
28	482	1210	1180	977	2530	1120	1650	36	40	18	22	26
29	1110	718	729	1000	---	1750	1080	36	40	19	26	25
30	589	1080	1380	777	---	1280	1300	37	41	19	28	24
31	1140	---	720	1420	---	821	---	37	---	18	30	---
TOTAL	23952	28360	32495	31033	30972	49402	50800	10638	3163	785	685	872
MEAN	773	945	1048	1001	1106	1594	1693	343	105	25.3	22.1	29.1
MAX	1970	1460	1620	1610	2550	2460	2870	1320	1020	44	30	32
MIN	101	336	204	258	291	821	1010	32	25	18	19	24
AC-FT	47510	56250	64450	61550	61430	97990	100800	21100	6270	1560	1360	1730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1994, BY WATER YEAR (WY)

MEAN	1136	1378	1404	1449	1648	2096	2811	2777	1984	590	443	701
MAX	4061	4270	4036	3315	5437	5955	7273	7971	9225	4739	2795	3233
(WY)	1984	1984	1984	1984	1986	1910	1907	1922	1909	1907	1983	1984
MIN	80.5	420	312	589	729	792	485	25.0	22.5	15.1	14.0	13.9
(WY)	1993	1903	1903	1935	1989	1934	1934	1992	1960	1977	1981	1979

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1903 - 1994	
ANNUAL TOTAL	463764		263157			
ANNUAL MEAN	1271		721		1532	
HIGHEST ANNUAL MEAN					4379	1984
LOWEST ANNUAL MEAN					442	1934
HIGHEST DAILY MEAN	4360	May 20	2870	Apr 24	12000	Feb 20 1986
LOWEST DAILY MEAN	26	Aug 22	18	Jul 18	7.2	Sep 20 1981
ANNUAL SEVEN-DAY MINIMUM	27	Aug 20	18	Jul 20	7.5	Sep 15 1981
ANNUAL RUNOFF (AC-FT)	919900		522000		1110000	
10 PERCENT EXCEEDS	3180		1620		3260	
50 PERCENT EXCEEDS	863		678		1250	
90 PERCENT EXCEEDS	28		22		26	

10118000 BEAR RIVER NEAR COLLINSTON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--
SEDIMENT CONCENTRATION: Maximum daily mean, 1,920 mg/L, Oct. 31, 1990; minimum daily mean, 7 mg/L, Nov. 13, 1993.
SEDIMENT LOADS: Maximum daily, 3,200 tons, Oct. 31, 1990; minimum daily, 1.1 tons, Sept. 29, 1992.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 169 mg/L, Aug. 24; minimum daily mean, 7 mg/L, Nov. 13.
SEDIMENT LOADS: Maximum daily, 721 tons, Apr. 24; minimum daily, 3.3 tons, Aug. 21.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	44	80	16	15	e22	e70	e16	e34	e22	e17	e67	e357
2	55	106	12	35	e16	e27	e17	e35	e17	e41	e67	e360
3	45	12	16	48	e30	e120	e25	e90	e16	e29	e64	e334
4	42	50	22	72	e25	e94	e17	e41	e17	e25	e69	e380
5	32	34	12	22	e22	e71	e20	e57	e24	e84	e33	e138
6	30	17	18	61	e23	e78	e24	e84	e16	e28	e40	e177
7	25	55	16	42	e19	e54	e24	e87	e18	e50	e19	e52
8	33	51	11	32	e21	e18	e17	e43	e21	e69	e40	e181
9	35	57	9	12	e36	e155	e36	e157	e17	e44	e24	e87
10	28	51	10	28	e17	e40	e16	e29	e16	e26	e21	e68
11	32	55	11	19	e22	e71	e16	e27	e20	e64	e31	e122
12	32	74	13	29	e16	e34	e18	e48	e16	e29	e37	e163
13	27	50	7	13	e23	e76	e21	e68	e18	e50	e17	e39
14	27	73	8	20	e33	e140	e16	e27	e17	e41	e19	e54
15	29	65	11	19	e22	e75	e24	e84	e17	e26	e38	e166
16	34	118	27	88	e19	e51	e37	e161	e17	e43	e33	e135
17	26	74	14	42	e37	e163	e16	e30	e17	e39	e26	e94
18	40	96	18	44	e27	e15	e18	e44	e26	e94	e24	e87
19	53	118	25	99	e37	e163	e17	e24	e28	e105	e56	e272
20	52	43	12	23	e18	e44	e17	e39	e29	e115	e63	e328
21	49	71	14	40	e17	e24	e18	e47	e17	e39	e26	e99
22	40	43	22	63	e17	e32	e19	e53	e18	e50	e74	e439
23	28	67	12	42	e21	e69	e24	e83	e24	e87	e80	e533
24	47	178	29	79	e16	e28	e18	e48	e14	e32	e58	e285
25	51	201	43	94	e17	e43	e22	e71	e32	e130	e77	e473
26	49	261	e19	e57	e19	e52	e23	e16	e82	e563	e62	e322
27	42	48	e16	e28	e19	e54	e21	e63	e65	e338	e29	e115
28	37	48	e22	e71	e21	e67	e18	e47	e82	e560	e20	e59
29	32	96	e17	e32	e16	e32	e18	e49	---	---	e49	e230
30	29	46	e20	e57	e26	e98	e17	e35	---	---	e24	e82
31	18	55	---	---	e16	e32	e27	e105	---	---	e17	e37
TOTAL	---	2393	---	1326	---	2090	---	1826	---	2818	---	6268

DAY	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	85	381	76	205	69	6.7	141	16	151	7.7	133	11
2	78	318	65	91	67	6.5	148	17	144	8.6	115	9.9
3	78	307	54	66	67	185	143	17	123	7.3	125	11
4	75	205	76	218	53	92	140	13	155	9.6	132	11
5	99	420	57	83	58	82	153	13	88	5.2	130	11
6	66	233	73	139	55	14	152	14	113	6.4	128	11
7	67	223	62	88	51	4.7	116	12	115	6.2	118	9.9
8	90	369	56	49	62	5.5	132	13	113	5.8	117	10
9	51	182	65	62	50	4.3	125	12	114	6.2	117	10
10	53	242	57	117	48	3.9	128	12	114	6.5	121	10
11	66	289	65	130	55	4.8	109	8.8	124	7.0	111	9.6
12	73	424	55	31	43	3.7	92	5.7	121	7.2	103	8.9
13	59	311	52	35	46	3.9	109	6.5	128	7.6	110	9.5
14	79	228	45	160	74	5.4	80	4.5	117	6.9	109	8.8
15	66	317	65	58	134	9.0	109	5.9	117	6.6	92	7.5
16	100	273	68	147	132	9.6	125	6.7	100	5.7	95	8.0
17	74	503	43	3.8	147	12	103	5.3	95	5.4	102	8.8
18	68	268	61	42	165	13	132	6.4	74	4.2	104	9.0
19	87	336	40	3.5	127	11	167	8.6	58	3.4	119	9.0
20	89	533	46	4.1	127	12	153	7.4	72	4.3	107	7.2
21	102	675	44	4.0	131	12	153	7.4	58	3.3	122	8.6
22	102	650	52	4.9	149	14	116	6.0	e57	e3.2	111	7.5
23	83	433	48	4.7	144	14	135	6.9	151	9.0	104	7.0
24	93	721	42	4.1	137	13	132	6.4	169	10	114	7.7
25	95	595	41	4.0	137	14	133	6.5	157	9.7	96	6.5
26	79	346	52	5.1	146	15	117	5.7	155	9.6	107	7.2
27	84	392	58	5.8	163	18	143	6.9	140	8.3	87	6.1
28	78	347	66	6.4	154	17	132	6.4	145	8.6	89	6.2
29	60	175	60	5.8	159	17	135	6.9	138	9.7	84	5.7
30	74	260	48	4.8	159	18	130	6.7	159	12	80	5.2
31	---	---	47	4.7	---	---	136	6.6	133	11	---	---
TOTAL	---	10956	---	1786.7	---	641.0	---	277.2	---	222.2	---	258.8
YEAR		30862.9										

e Estimated

10126000 BEAR RIVER NEAR CORINNE, UT

LOCATION.--Lat 41°34'35", long 112°06'00", in NE¼SE¼NE¼ 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 sea level, unadjusted. Auxiliary nonrecording gage 7,800 ft downstream July 27, 1950 to Nov. 21, 1955.

REMARKS.--Records fair. 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 daily discharge, 2,510 ft³/s Apr. 25; minimum daily discharge, 58 ft³/s July 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	602	1120	e1000	e1000	1380	2290	1040	1280	89	81	74	78
2	865	812	e1100	e1100	917	1850	1520	980	96	82	75	84
3	894	1010	e800	e1100	967	2140	1420	616	96	79	72	86
4	645	1130	e1200	e1200	1030	1790	1380	611	452	80	65	88
5	649	1240	e1100	e1100	725	1780	1060	915	672	79	64	94
6	710	1010	e1000	1230	1400	1900	1380	616	532	86	68	89
7	614	1160	e1080	1480	1040	1660	1310	626	e240	88	71	90
8	864	996	e1000	1540	1120	1210	1270	577	e160	85	69	92
9	999	1130	729	1320	1170	1540	1490	391	e100	86	75	93
10	987	860	1310	1460	1130	1420	1400	420	e95	87	78	93
11	957	903	e900	992	921	1450	1590	581	88	89	76	96
12	951	922	997	840	1090	1470	1680	706	82	85	74	95
13	1010	828	e900	1130	866	1550	1960	390	78	81	79	95
14	922	824	e1110	1200	1030	1110	1780	364	74	72	76	e104
15	1170	846	e1200	989	944	1140	1330	913	74	66	74	107
16	1250	859	e1000	1380	763	1650	1490	607	75	65	74	106
17	1440	1040	e900	1380	963	1330	1230	569	75	61	72	111
18	1370	e990	e1000	937	1110	1260	2040	400	75	63	73	112
19	1080	e900	e700	1030	1400	1420	1620	250	77	60	72	115
20	1030	e1000	e1100	751	1350	1710	1320	172	76	60	75	116
21	707	e800	e1000	905	1420	1650	2080	114	74	60	76	119
22	754	e890	e900	1150	980	1520	2130	91	77	63	75	120
23	731	e900	e980	1120	1130	2100	2120	86	71	64	77	123
24	965	e1000	e1180	1260	1240	2290	2020	81	72	61	74	114
25	1280	e880	e940	1130	1000	1940	2510	80	71	61	71	112
26	1590	e740	e1000	1260	1610	2080	1960	75	72	58	70	114
27	1840	e900	e1020	748	2150	1760	1800	72	72	62	71	111
28	1030	e700	e1100	1090	2020	1450	1540	75	72	64	78	104
29	734	e1000	e1100	1010	---	1390	1420	74	76	67	82	105
30	1010	e900	e940	1140	---	1490	1250	73	77	71	77	e121
31	998	---	e1100	982	---	1270	---	69	---	74	73	---
TOTAL	30648	28290	31386	34954	32866	50610	48140	12874	4040	2240	2280	3087
MEAN	989	943	1012	1128	1174	1633	1605	415	135	72.3	73.5	103
MAX	1840	1240	1310	1540	2150	2290	2510	1280	672	89	82	123
MIN	602	700	700	748	725	1110	1040	69	71	58	64	78
AC-FT	60790	56110	62250	69330	65190	100400	95490	25540	8010	4440	4520	6120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1994, BY WATER YEAR (WY)

MEAN	1435	1705	1756	1845	1906	2381	2940	2971	2201	773	673	976
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	647	639	620	723	913	638	71.8	77.6	72.3	55.2	62.2
(WY)	1993	1989	1993	1993	1993	1991	1992	1992	1992	1994	1992	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1950 - 1994	
ANNUAL TOTAL	497559		281415			
ANNUAL MEAN	1363		771		1794	
HIGHEST ANNUAL MEAN					5050	1984
LOWEST ANNUAL MEAN					435	1992
HIGHEST DAILY MEAN	4620	May 21	2510	Apr 25	14300	May 19 1984
LOWEST DAILY MEAN	123	Jul 21	58	Jul 26	47	Aug 25 1992
ANNUAL SEVEN-DAY MINIMUM	130	Sep 4	61	Jul 20	50	Aug 22 1992
ANNUAL RUNOFF (AC-FT)	986900		558200		1300000	
10 PERCENT EXCEEDS	3510		1540		3700	
50 PERCENT EXCEEDS	900		900		1450	
90 PERCENT EXCEEDS	175		73		133	

e Estimated

10126000 BEAR RIVER NEAR CORINNE, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1973 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1976 to September 1981.
WATER TEMPERATURES: October 1974 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 6,140 microsiemens July 5, 1979; minimum daily, 440 microsiemens May 25, 1978.
WATER TEMPERATURES: Maximum, 30.0°C July 27, 28, 1978; minimum, 0.0°C on many days during winter period each year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV , 1993											
30...	1245	898	1070	8.6	3.0	0.0	2.1	14.0	654	17	55
MAR , 1994											
30...	1130	1540	990	8.4	15.0	9.0	3.5	10.2	660	K7	57
JUN											
09...	1200	104	2860	8.5	22.0	18.5	55	10.4	657	110	620
SEP											
01...	1030	83	5120	8.5	30.5	22.0	73	9.6	620	--	850

DATE	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)
NOV , 1993											
30...	290	62	33	96	41	2	9.2	14	283	256	48
MAR , 1994											
30...	300	66	32	83	37	2	11	20	305	284	50
JUN											
09...	340	70	40	430	71	10	27	14	312	280	64
SEP											
01...	450	78	61	880	79	18	48	10	388	334	110

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV , 1993											
30...	140	0.20	9.7	576	556	0.78	1400	0.830	0.830	0.030	0.860
MAR , 1994											
30...	120	0.30	14	557	552	0.76	2320	0.970	0.970	0.030	1.00
JUN											
09...	740	0.30	11	1530	1550	2.08	430	0.380	0.380	0.110	0.490
SEP											
01...	1500	0.40	18	2850	2900	3.88	639	0.850	0.850	0.250	1.10

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
NOV , 1993										
30...	0.860	0.060	0.08	0.24	0.30	1.2	0.100	0.080	0.070	0.21
MAR , 1994										
30...	1.00	0.100	0.13	0.90	1.0	2.0	0.250	0.090	0.080	0.25
JUN										
09...	0.490	0.020	0.03	1.3	1.3	1.8	0.220	0.030	0.020	0.06
SEP										
01...	1.10	0.050	0.06	0.75	0.80	1.9	0.140	0.030	0.020	0.06

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)
NOV , 1993							
30...	1245	<10	71	<3	6	69	3
MAR , 1994							
30...	1130	<10	71	<3	<3	67	3
JUN							
09...	1200	<10	110	<9	<9	220	8
SEP							
01...	1030	<10	200	<1	<10	440	10

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
NOV , 1993						
30...	<10	<1	<1	<1.0	440	<6
MAR , 1994						
30...	10	<1	<1	<1.0	420	<6
JUN						
09...	40	<1	<1	<1.0	940	<18
SEP						
01...	6	1	<1	<1.0	1600	--

SEDIMENT DISCHARGE DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
NOV , 1993						
30...	1245	898	0.0	34	80	194
MAR , 1994						
30...	1130	1540	9.0	81	140	582
JUN						
09...	1200	104	18.5	97	349	98
SEP						
01...	1030	83	22.0	98	159	36

10128500 WEBER RIVER NEAR OAKLEY, UT

LOCATION (REVISED).--Lat 40°44'14", long 111°14'50", in NW¼SE¼NE¼ 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 sea level, from topographic map. Prior to Oct. 25, 1933, staff gage at site 0.2 mi downstream at different datum. Oct. 25, 1933 to Aug. 29, 1955, water-stage recorder at present site at datum 0.5 ft higher. Aug. 29, 1955 to Oct. 27, 1981 at present site at different datum. Oct. 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 fair. 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, (revised).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,170 ft³/s June 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 31	0100	*1,140	*3.11				

Minimum daily discharge, 25 ft³/s Nov. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	71	e35	e44	e48	e60	81	239	864	129	e105	84
2	76	66	e36	e46	e48	e64	79	225	833	133	e101	84
3	75	68	e37	e50	e48	e66	88	225	806	137	e97	85
4	75	64	e38	e52	e50	e68	94	218	775	139	96	83
5	80	63	e40	e54	e50	e68	84	251	711	137	92	83
6	103	61	e42	e52	e49	e60	82	320	e660	135	89	84
7	118	e56	e44	e49	e49	e58	82	391	e580	134	88	85
8	124	e54	e47	e52	e50	e56	76	431	e510	131	89	82
9	116	e54	e49	e54	e52	e56	79	507	434	129	103	80
10	114	e56	e49	e48	e50	e60	78	580	389	136	108	75
11	115	61	e32	e47	e52	e66	76	696	336	137	100	64
12	135	60	e29	e50	e52	e66	79	782	321	137	95	64
13	125	60	e32	e52	e46	e56	88	853	292	137	92	65
14	120	e54	e34	e52	e48	e58	104	911	257	134	92	68
15	98	e47	e35	e50	e49	e58	110	862	247	133	93	68
16	92	e53	e35	e52	e50	e60	131	883	252	129	89	64
17	84	e51	e34	e50	e52	e62	162	775	240	128	87	63
18	86	e48	e33	e45	e54	67	190	679	224	122	86	61
19	84	e47	e34	e47	e54	83	214	673	213	119	102	61
20	85	e48	e34	e45	e52	75	242	602	205	120	95	61
21	83	e58	e33	e46	e54	68	289	553	200	118	90	59
22	82	e50	e33	e47	e56	74	374	588	191	119	89	50
23	80	e44	e34	e54	e58	68	451	670	174	117	86	49
24	78	e44	e35	e58	e56	63	470	764	162	109	82	48
25	79	e25	e39	e56	e60	64	421	837	151	e107	81	47
26	76	e29	e41	e56	e62	63	377	801	140	e102	81	47
27	75	e31	e44	e52	e64	62	327	759	132	e101	83	46
28	76	e33	e45	e48	e62	62	311	934	128	e88	88	46
29	75	e33	e45	e47	---	67	286	931	124	e90	89	52
30	69	e34	e44	e52	---	67	253	979	131	e100	86	60
31	e64	---	e44	e45	---	73	---	1000	---	e107	85	---
TOTAL	2818	1523	1186	1552	1475	1998	5778	19919	10682	3794	2839	1968
MEAN	90.9	50.8	38.3	50.1	52.7	64.5	193	643	356	122	91.6	65.6
MAX	135	71	49	58	64	83	470	1000	864	139	108	85
MIN	64	25	29	44	46	56	76	218	124	88	81	46
AC-FT	5590	3020	2350	3080	2930	3960	11460	39510	21190	7530	5630	3900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 1994, BY WATER YEAR (WY)

MEAN	79.3	69.8	60.5	56.3	56.3	66.3	179	686	910	262	113	83.8
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	37.6	28.8	37.4	35.0	35.9	64.2	170	81.0	41.7	34.4	32.9
(WY)	1993	1978	1978	1977	1964	1977	1975	1977	1934	1934	1934	1934

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1905 - 1994	
ANNUAL TOTAL	103657		55532			
ANNUAL MEAN	284		152		219	
HIGHEST ANNUAL MEAN					415	1907
LOWEST ANNUAL MEAN					77.4	1934
HIGHEST DAILY MEAN	1810	May 27	1000	May 31	4170	Jun 13 1921
LOWEST DAILY MEAN	25	Nov 25	25	Nov 25	20	Dec 1 1977
ANNUAL SEVEN-DAY MINIMUM	31	Nov 25	31	Nov 25	23	Nov 30 1977
ANNUAL RUNOFF (AC-FT)	205600		110100		158500	
10 PERCENT EXCEEDS	1110		403		619	
50 PERCENT EXCEEDS	102		76		79	
90 PERCENT EXCEEDS	38		45		48	

e Estimated

10129400 ROCKPORT RESERVOIR NEAR WANSHIP, UT

LOCATION.--Lat 40°47'25", long 111°24'12", in NW¼NW¼SE¼ sec. 29, T. 1 N., R. 5 E., Summit County, Hydrologic Unit 16020101, in powerhouse on downstream side of dam on Weber River, 1.2 mi south of Wanship and 1.2 mi upstream from Silver Creek.

DRAINAGE AREA.--334 mi².

PERIOD OF RECORD.--February 1957 to current year. Month-end contents only prior to October 1960, published in WSP 1734.

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

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Bureau of Reclamation).

REMARKS.--No estimated daily contents. Records good. Reservoir is formed by earthfill rock-faced dam; storage began in fall of 1956; dam completed March 1957. Usable capacity, 60,860 acre-ft between elevation 5,930 ft (bottom of outlet tunnel) and 6,037 ft (top of spillway) above mean sea level. Dead storage, 1,260 acre-ft. Figures given herein represent usable contents. Water is used for irrigation, domestic, and industrial purposes.

COOPERATION.--Capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 65,030 acre-ft June 24, 27, 28, 1967 and June 12, 13, 1983, elevation, 6,040.8 ft; minimum observed since storage began, 152 acre-ft Sept. 10, 15, 1959, elevation, 5,931.2 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 58,790 acre-ft June 8, elevation, 6,035.1 ft; minimum contents, 21,540 acre-ft Sept. 30, elevation, 5,989.9 ft.

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

5,985	18,640	6,005	31,800	6,025	48,720
5,990	21,570	6,010	35,660	6,030	53,600
5,995	24,730	6,015	39,750	6,035	58,700
6,000	28,150	6,020	44,110	6,040	64,100

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50570	47340	41380	34450	35450	38250	45660	47810	55510	54030	40650	29010
2	50380	47160	41170	34380	35490	38410	45830	47910	56440	53600	40230	28730
3	50200	46980	40970	34300	35540	38590	45990	48030	57230	53220	39780	28510
4	50010	46800	40760	34270	35600	38790	46170	48160	57750	52810	39320	28270
5	49810	46610	40460	34410	35680	39010	46310	48280	58190	52420	38860	28010
6	49630	46420	40160	34590	35750	39240	46310	48400	58580	51990	38380	27830
7	49560	46160	40020	34780	35840	39490	46300	48510	58740	51600	37920	27600
8	49580	45920	39810	34700	35960	39740	46290	48650	58790	51190	37450	27350
9	49600	45720	39600	34610	36060	39970	46290	48800	58780	50780	37050	27100
10	49560	45530	39440	34510	36150	40200	46330	48960	58720	50390	36670	26740
11	49490	45320	39280	34430	36270	40450	46410	49180	58640	50010	36380	26460
12	49490	45120	39060	34430	36260	40790	46430	49410	58540	49640	35990	26190
13	49460	44920	38830	34430	36330	41180	46420	49670	58490	49250	35610	25920
14	49460	44720	38640	34370	36420	41550	46420	49970	58350	48870	35210	25670
15	49480	44490	38300	34380	36510	41910	46430	50310	58250	48520	34830	25410
16	49460	44280	37980	34380	36610	42240	46440	50560	58160	48150	34420	25140
17	49410	44070	37730	34380	36710	42610	46450	50860	58010	47800	34000	24870
18	49360	43840	37450	34360	36850	42890	46470	51120	57830	47500	33580	24600
19	49290	43600	37170	34370	36980	43160	46490	51330	57610	47120	33170	24330
20	49180	43360	36900	34450	37060	43540	46520	51550	57410	46750	32800	24060
21	49050	43120	36580	34540	37160	43820	46560	51770	57250	46390	32400	23810
22	48930	42920	36310	34620	37280	44160	46600	51970	57100	46020	32010	23580
23	48800	42770	36070	34710	37370	44410	46690	52160	56840	45540	31620	23360
24	48650	42580	35790	34810	37480	44610	46830	52420	56570	44950	31230	23100
25	48500	42350	35530	34920	37600	44810	46970	52640	56280	44300	30920	22830
26	48340	42100	35290	35020	37760	44980	47120	52940	55930	43580	30630	22550
27	48170	41860	35060	35120	37930	45120	47300	53240	55570	42880	30360	22280
28	48020	41630	34950	35210	38090	45240	47450	53400	55230	42470	30030	22010
29	47850	41470	34830	35290	---	45370	47600	53340	54840	42040	29780	21750
30	47690	41430	34720	35350	---	45490	47710	53350	54430	41550	29530	21540
31	47510	---	34550	35410	---	45510	---	54360	---	41080	29270	---
MAX	50570	47340	41380	35410	38090	45510	47710	54360	58790	54030	40650	29010
MIN	47510	41430	34550	34270	35450	38250	45660	47810	54430	41080	29270	21540
(#)	6023.7	6017.0	6008.6	6009.7	6013.0	6021.5	6023.9	6030.8	6030.8	6016.6	6001.6	5989.9
(*)	-3260	-6080	-6880	+860	+2680	+7420	+2200	+6650	+70	-13350	-11810	-7730

CAL YR 1993 . . . . . (*) +11,800
WTR YR 1994 . . . . . (*) -29,230

(#) Elevation in feet, at end of month.
(*) Change in contents, in acre-feet.

10129500 WEBER RIVER NEAR WANSHIP, UT

LOCATION.--Lat 40°47'34", Long 111°24'15", in SE¼SE¼NE¼ 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 sea level, from topographic map. Nov. 17, 1950, to Sept. 30, 1955, water-stage recorder at site 200 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. 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 daily discharge 435 ft³/s on July 26, minimum daily discharge 27 ft³/s, Apr. 3, 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	225	205	201	138	e36	e36	29	99	199	180	296	201
2	219	205	201	139	e36	e36	28	100	203	199	297	201
3	218	205	201	e113	e36	e36	27	101	198	210	296	174
4	219	205	201	e68	e36	e36	27	100	199	199	296	201
5	213	205	201	e66	e36	e36	46	102	163	198	294	201
6	217	204	201	e112	e36	e36	64	100	164	201	294	197
7	217	202	201	e134	e36	e36	67	103	195	216	294	198
8	214	201	201	139	e36	37	71	105	197	214	287	175
9	210	201	203	139	e36	38	78	106	198	213	283	223
10	210	201	201	139	e36	38	86	96	198	209	280	224
11	209	201	201	108	e36	40	93	81	197	226	279	191
12	205	203	201	89	e36	40	96	83	197	229	273	201
13	205	202	201	90	e36	39	96	84	198	231	274	198
14	205	204	201	86	e36	39	96	83	204	236	270	197
15	206	202	201	85	e36	40	96	81	205	240	266	201
16	205	201	201	87	e36	39	96	78	198	249	265	201
17	205	201	201	87	e36	40	96	79	191	208	263	201
18	205	201	201	87	e36	35	97	79	174	253	265	199
19	205	201	201	e75	e36	29	97	79	149	259	265	197
20	204	201	201	e47	e36	29	98	79	142	260	260	200
21	205	201	201	e37	e36	29	97	81	137	261	257	198
22	206	201	200	e37	e36	29	96	80	201	282	252	161
23	206	201	198	e38	e36	29	99	73	227	347	257	194
24	206	201	196	e36	e36	29	96	64	216	385	235	194
25	209	201	196	e37	e36	29	103	82	208	419	200	188
26	209	201	196	e36	e36	29	102	88	195	435	201	183
27	207	201	168	e36	e36	29	94	93	191	351	202	183
28	205	201	136	e36	e36	28	99	163	182	267	201	183
29	205	201	136	e37	---	28	101	176	170	297	201	184
30	205	201	137	e38	---	28	99	194	173	298	197	185
31	205	---	138	e36	---	28	---	195	---	299	202	---
TOTAL	6484	6061	5924	2432	1008	1050	2470	3107	5669	8071	8002	5834
MEAN	209	202	191	78.5	36.0	33.9	82.3	100	189	260	258	194
MAX	225	205	203	139	36	40	103	195	227	435	297	224
MIN	204	201	136	36	36	28	27	64	137	180	197	161
AC-FT	12860	12020	11750	4820	2000	2080	4900	6160	11240	16010	15870	11570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1994, BY WATER YEAR (WY)

MEAN	121	118	114	75.1	74.7	96.7	193	370	428	206	180	147
MAX	209	202	258	131	160	188	683	1448	1265	416	333	288
(WY)	1994	1994	1958	1958	1958	1958	1952	1952	1952	1990	1989	1958
MIN	23.3	23.2	23.0	23.0	15.8	25.8	30.0	42.3	137	90.9	61.9	55.9
(WY)	1993	1993	1993	1993	1991	1992	1991	1957	1957	1954	1954	1955

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1951 - 1994	
ANNUAL TOTAL	85657		56112			
ANNUAL MEAN	235		154		182	
HIGHEST ANNUAL MEAN					385	1952
LOWEST ANNUAL MEAN					125	1992
HIGHEST DAILY MEAN	1260	May 28	435	Jul 26	2120	May 4 1952
LOWEST DAILY MEAN	23	Jan 1	27	Apr 3	.10	Nov 17 1957
ANNUAL SEVEN-DAY MINIMUM	23	Jan 1	28	Mar 29	.11	Nov 16 1957
ANNUAL RUNOFF (AC-FT)	169900		111300		131800	
10 PERCENT EXCEEDS	462		252		316	
50 PERCENT EXCEEDS	202		196		124	
90 PERCENT EXCEEDS	23		36		27	

e Estimated

10130000 SILVER CREEK NEAR WANSHIP, UT

LOCATION.--Lat 40°45'25", long 111°28'15", in NW¼NW¼SW¼ sec. 2, T. 1 S., R. 4 E., Summit County, Hydrologic Unit 16020101, on right bank 50 ft downstream from culvert at crossover between interstate 80 lanes, 4 mi upstream from mouth, 4.5 mi southwest of Wanship.

DRAINAGE AREA.--27.9 mi².

PERIOD OF RECORD.--October 1941 to September 1946, July 1982 to September 1985, October 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,360 ft above sea level, from topographic map. October 1941 to September 1946, July 1982 to September 1985 water-stage recorder at approximately same site at different datums.

REMARKS.--Records poor. Several diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 430 ft³/s Apr. 4, 1942, gage height, 4.28 ft, site and datum then is use; minimum, practically no flow at times in 1942 and 1943.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 26 ft³/s Mar. 5, 6, 20; minimum daily discharge, 0.40 ft³/s July 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	4.9	4.3	3.0	e2.6	5.2	9.4	11	6.4	e2.0	e3.0	.98
2	5.4	4.4	4.4	3.0	e2.6	6.8	10	11	4.7	4.8	1.7	1.2
3	5.8	5.0	4.6	3.0	e2.8	13	7.8	14	7.3	6.0	2.1	3.7
4	5.8	5.4	4.3	3.8	e2.9	20	13	11	9.1	6.2	e1.4	2.0
5	6.6	4.9	4.3	e4.3	e3.0	26	13	9.2	7.3	6.2	e1.2	2.4
6	6.3	4.1	4.1	e4.1	e2.9	26	8.9	8.8	6.3	6.1	e1.5	4.3
7	11	3.8	4.2	e3.8	3.0	23	12	8.8	5.1	e4.9	2.3	3.8
8	16	3.4	3.9	e3.7	3.4	20	16	11	4.1	e1.8	5.1	4.5
9	14	3.6	4.3	3.7	e3.6	20	15	11	4.3	e1.4	4.9	7.5
10	10	4.1	4.8	3.7	4.1	16	24	9.0	5.0	e.75	4.1	9.1
11	8.8	4.6	5.5	e3.5	e4.0	13	20	10	e4.9	e1.1	4.5	10
12	13	4.6	5.4	3.4	e3.6	14	13	11	e4.9	e1.8	e1.9	11
13	10	4.4	5.3	3.1	e3.3	21	11	7.5	e2.2	e1.2	e1.1	8.2
14	13	3.9	4.1	3.7	e3.4	20	11	12	2.2	e.89	3.7	3.5
15	13	3.5	3.6	5.1	e3.8	20	11	9.0	3.2	e.46	2.8	1.8
16	13	3.6	3.6	4.6	e4.0	17	11	9.0	2.9	e.43	3.6	2.2
17	11	3.5	3.6	4.8	4.4	15	10	10	2.7	e.40	e2.0	4.0
18	14	3.9	3.8	4.3	e4.0	14	9.7	8.6	e2.0	e.57	4.1	4.8
19	12	e3.8	3.2	4.9	e3.8	15	11	8.8	e2.3	e.75	4.1	4.8
20	9.5	e4.1	4.9	4.2	e3.7	26	11	9.5	4.8	e.96	3.6	5.7
21	8.6	e4.8	3.6	4.3	e3.4	21	6.9	9.2	8.5	e.46	4.1	3.8
22	9.0	e4.3	3.9	4.1	e3.4	11	6.6	8.2	9.7	e2.2	4.9	2.4
23	8.6	e3.7	2.7	3.5	e3.3	14	8.4	6.9	5.3	e.89	e2.5	2.8
24	8.4	e3.2	3.1	2.7	e3.4	13	9.3	4.3	4.6	e.80	e4.8	3.4
25	8.2	e2.9	3.2	3.4	e3.8	11	10	4.2	4.0	e1.3	e2.4	2.8
26	7.9	e3.0	3.0	3.2	e4.2	14	11	4.8	3.8	e1.6	e1.5	2.4
27	8.3	e3.3	2.7	2.9	e4.5	11	14	7.5	4.5	2.5	e1.2	2.4
28	8.3	e3.6	3.1	e2.8	e4.9	17	15	8.2	e2.3	e1.4	4.2	1.9
29	8.5	e3.8	3.7	e2.7	---	13	15	5.8	e2.0	e.69	6.8	2.4
30	5.7	4.3	3.6	e2.6	---	13	13	5.6	e1.8	e2.0	e1.3	6.8
31	5.2	---	3.2	e2.6	---	9.2	---	5.2	---	e1.0	e.46	---
TOTAL	290.0	120.4	122.0	112.5	99.8	498.2	357.0	270.1	138.2	63.55	92.86	126.58
MEAN	9.35	4.01	3.94	3.63	3.56	16.1	11.9	8.71	4.61	2.05	3.00	4.22
MAX	16	5.4	5.5	5.1	4.9	26	24	14	9.7	6.2	6.8	11
MIN	5.1	2.9	2.7	2.6	2.6	5.2	6.6	4.2	1.8	.40	.46	.98
AC-FT	575	239	242	223	198	988	708	536	274	126	184	251

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942-46, 1993-94, BY WATER YEAR (WY)

MEAN	6.46	5.95	4.68	3.82	4.61	15.6	24.9	13.3	8.56	2.63	2.58	3.67
MAX	12.5	9.49	7.82	5.82	7.40	33.9	45.6	35.6	29.5	6.70	7.73	8.38
(WY)	1986	1992	1985	1985	1991	1943	1942	1983	1983	1985	1983	1984
MIN	2.26	2.77	2.11	2.00	2.91	5.67	4.25	3.13	.86	.39	.000	.37
(WY)	1945	1945	1945	1944	1993	1992	1992	1992	1946	1944	1942	1942

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1942-46, 1993-94	
ANNUAL TOTAL	3025.2		2291.19			
ANNUAL MEAN	8.29		6.28		8.00	
HIGHEST ANNUAL MEAN					14.7	1983
LOWEST ANNUAL MEAN					4.23	1992
HIGHEST DAILY MEAN	140	May 7	26	Mar 5	206	Apr 4 1942
LOWEST DAILY MEAN	2.0	Jan 5	.40	Jul 17	.00	Jul 2 1942
ANNUAL SEVEN-DAY MINIMUM	2.3	Jan 25	.58	Jul 15	.00	Aug 1 1942
ANNUAL RUNOFF (AC-FT)	6000		4540		5800	
10 PERCENT EXCEEDS	13		13		17	
50 PERCENT EXCEEDS	5.3		4.3		4.7	
90 PERCENT EXCEEDS	2.9		2.0		1.0	

e Estimated

10130500 WEBER RIVER NEAR COALVILLE, UT

LOCATION.--Lat 40°53'43", long 111°24'04", in NE¼SW¼NE¼ 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 sea level, from topographic map. Prior to Mar. 22, 1931, nonrecording gage, Mar. 22, 1931 to July 18, 1967, water-stage recorder at same site at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. 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 Apr. 1, 1957, by Rockport Reservoir (see station 10129400).

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 Sept. 20, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 409 ft³/s July 26, gage height, 2.74 ft; minimum daily discharge, 37 ft³/s Feb. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	213	e205	131	39	47	41	98	178	215	260	173
2	195	210	e205	133	37	47	40	98	183	218	259	174
3	196	211	e205	113	38	49	40	108	174	225	263	150
4	195	211	e204	87	39	54	50	108	169	229	261	174
5	192	211	e202	42	e40	62	71	104	148	226	258	176
6	197	209	e197	40	e43	64	113	97	121	229	255	175
7	216	208	e197	86	e41	61	113	96	165	239	252	176
8	219	207	e202	151	e43	59	112	98	172	240	248	154
9	220	207	e207	132	e40	59	113	94	174	234	247	190
10	221	208	e204	132	e46	55	118	84	167	228	246	203
11	221	208	e202	119	e43	57	118	68	169	231	240	167
12	234	208	e202	86	e41	55	115	58	165	241	236	176
13	226	207	e199	85	e40	63	115	59	168	240	235	173
14	233	207	e199	84	e42	64	119	67	169	232	238	172
15	237	205	e199	84	e44	66	120	63	174	225	241	173
16	237	205	e199	84	e45	64	119	57	178	226	237	171
17	231	205	e199	87	e46	66	123	55	175	200	241	166
18	242	206	e197	87	e43	58	122	57	171	207	241	172
19	226	205	e197	70	e41	53	121	60	164	229	242	177
20	218	205	e197	42	e40	62	125	64	171	229	244	193
21	218	204	e191	47	e39	61	125	61	181	228	240	183
22	218	207	e200	52	e40	54	121	57	201	263	229	151
23	215	208	e189	48	e42	46	116	56	215	326	237	179
24	215	205	e188	42	e57	46	104	42	211	342	220	181
25	214	203	e188	42	e78	48	107	47	205	375	173	171
26	217	202	e189	41	e63	49	100	46	209	398	170	175
27	215	e205	175	41	e50	45	89	60	219	352	172	177
28	215	e205	132	40	e47	42	97	116	217	225	173	177
29	215	e206	138	44	---	41	108	157	218	257	173	182
30	213	e208	143	48	---	40	100	160	216	263	173	184
31	212	---	131	38	---	39	---	172	---	260	174	---
TOTAL	6715	6209	5882	2358	1247	1676	3075	2567	5447	7832	7078	5245
MEAN	217	207	190	76.1	44.5	54.1	102	82.8	182	253	228	175
MAX	242	213	207	151	78	66	125	172	219	398	263	203
MIN	192	202	131	38	37	39	40	42	121	200	170	150
AC-FT	13320	12320	11670	4680	2470	3320	6100	5090	10800	15530	14040	10400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1994, BY WATER YEAR (WY)

MEAN	133	136	130	118	121	164	256	452	542	198	135	127
MAX	397	246	400	397	307	615	886	1529	1550	672	346	277
(WY)	1985	1986	1984	1984	1985	1986	1952	1952	1983	1975	1983	1958
MIN	21.2	32.0	27.9	20.0	28.1	27.5	31.4	44.3	43.8	14.9	21.1	9.80
(WY)	1935	1962	1978	1957	1981	1981	1981	1959	1934	1934	1934	1934

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1928 - 1994	
ANNUAL TOTAL	85662		55331			
ANNUAL MEAN	235		152		209	
HIGHEST ANNUAL MEAN					485	1986
LOWEST ANNUAL MEAN					71.1	1961
HIGHEST DAILY MEAN	1200	May 28	398	Jul 26	2140	May 6 1952
LOWEST DAILY MEAN	28	Jan 30	37	Feb 2	7.0	Sep 18 1934
ANNUAL SEVEN-DAY MINIMUM	29	Jan 27	39	Jan 31	8.0	Sep 16 1934
ANNUAL RUNOFF (AC-FT)	169900		109700		151800	
10 PERCENT EXCEEDS	479		236		424	
50 PERCENT EXCEEDS	199		173		146	
90 PERCENT EXCEEDS	31		44		44	

e Estimated

10131000 CHALK CREEK AT COALVILLE, UT

LOCATION.--Lat 40°55'14", long 111°24'03", in NW¼NE¼SE¼ 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 5,560.6 ft above sea level. Prior to Feb. 13, 1931, nonrecording gage at site 100 ft upstream at different datum. Feb. 13, 1931 to Oct. 15, 1941, water-stage recorder at site 300 ft upstream at different datum. Oct. 16, 1941 to Sept. 30, 1987 at datum 3.0 ft lower.

REMARKS.--No estimated daily discharges. 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 14	0400	*287	*4.41				

Minimum discharge, 5.7 ft³/s Aug. 5, 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	29	28	21	17	42	47	100	92	19	14	12
2	19	25	28	22	18	46	44	99	76	10	14	13
3	19	29	27	23	19	49	46	109	69	12	13	12
4	19	30	26	23	18	50	66	115	61	13	12	13
5	19	28	25	25	18	47	56	128	54	14	7.1	14
6	19	22	25	24	19	44	46	158	49	14	6.7	14
7	25	23	24	21	19	38	47	183	44	18	6.4	15
8	35	23	28	22	21	37	43	187	38	20	6.7	14
9	36	25	28	24	19	34	43	185	43	17	11	15
10	34	30	27	23	21	34	43	217	48	13	18	15
11	33	30	28	21	21	39	45	226	49	13	25	15
12	41	29	25	24	18	38	43	224	49	14	24	17
13	39	30	20	23	20	35	48	241	49	13	24	19
14	42	27	22	23	21	37	59	259	45	13	19	21
15	40	19	26	19	21	38	60	226	43	14	16	23
16	38	23	26	23	22	41	59	257	45	16	17	21
17	36	23	20	18	23	50	70	229	41	19	15	20
18	40	21	16	21	29	48	87	183	38	12	11	20
19	37	15	19	20	23	60	100	176	40	10	9.9	21
20	36	24	20	21	19	64	119	156	44	10	10	21
21	34	35	18	20	22	52	136	147	43	8.6	11	22
22	33	35	19	20	21	58	158	133	42	7.5	12	21
23	32	25	20	21	21	48	193	122	39	9.8	12	21
24	32	22	21	25	26	43	168	120	36	9.3	11	21
25	31	18	21	23	81	47	149	111	31	9.5	11	21
26	31	18	20	23	67	39	133	100	25	10	10	21
27	30	23	21	23	61	39	124	95	22	8.1	11	20
28	31	27	23	18	46	37	115	111	21	7.5	11	21
29	30	28	21	17	---	39	111	98	26	7.8	11	22
30	25	27	20	20	---	35	103	85	23	7.5	11	23
31	26	---	20	15	---	38	---	86	---	11	12	---
TOTAL	961	763	712	666	751	1346	2561	4866	1325	380.6	402.8	548
MEAN	31.0	25.4	23.0	21.5	26.8	43.4	85.4	157	44.2	12.3	13.0	18.3
MAX	42	35	28	25	81	64	193	259	92	20	25	23
MIN	19	15	16	15	17	34	43	85	21	7.5	6.4	12
AC-FT	1910	1510	1410	1320	1490	2670	5080	9650	2630	755	799	1090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1994, BY WATER YEAR (WY)

MEAN	21.2	23.5	20.9	20.5	23.5	39.0	117	280	174	45.5	23.1	21.1
MAX	66.7	60.3	54.2	49.8	94.6	168	378	775	811	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

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1928 - 1994	
ANNUAL TOTAL	41469		15282.4			
ANNUAL MEAN	114		41.9		67.6	
HIGHEST ANNUAL MEAN					197	1986
LOWEST ANNUAL MEAN					8.66	1934
HIGHEST DAILY MEAN	1420	May 22	259	May 14	1420	May 22 1993
LOWEST DAILY MEAN	12	Feb 14	6.4	Aug 7	1.0	Jun 8 1934
ANNUAL SEVEN-DAY MINIMUM	14	Jan 23	8.5	Jul 24	1.0	Aug 19 1934
ANNUAL RUNOFF (AC-FT)	82250		30310		48970	
10 PERCENT EXCEEDS	333		100		180	
50 PERCENT EXCEEDS	35		25		25	
90 PERCENT EXCEEDS	16		12		10	

10131500 ECHO RESERVOIR AT ECHO, UT

LOCATION.--Lat 40°57'50", long 111°25'55", in NE¼NW¼SW¼ sec. 30, T. 3 N., R. 5 E., Summit County, Hydrologic Unit 16020101, near outlet works at left end of Echo Dam on Weber River, 1.1 mi southeast of Echo.

DRAINAGE AREA.--726 mi².

PERIOD OF RECORD.--October 1930 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 5,450 ft above sea level (levels by Bureau of Reclamation). Prior to 1932, elevations obtained from mercury gage in valve house and staff gage.

REMARKS.--Records good except for the period May to June 24, which is fair. Reservoir is formed by earthfill, rock-faced dam; storage began in October 1930; dam completed in 1931. Capacity, 73,940 acre-ft between elevation 5,450 ft (bottom of outlet tunnel) and 5,560 ft (top of radial gages in spillway) above mean sea level. Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation of the Echo Project.

COOPERATION.--Capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 75,420 acre-ft June 13, 1983, elevation, 5,561.0 ft; no contents Sept. 12 to Dec. 3, 1931, Sept. 24 to Nov. 2, 1934, Oct. 12 to Nov. 21, 1944, Oct. 1 to Nov. 15, 1954, Sept. 11-20, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 73,940 acre-ft May 9-18, elevation, 5,560.0 ft; minimum, 9,870 acre-ft Sept. 29, elevation, 5,496.4 ft.

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

5,495	9,110	5,520	26,620	5,545	53,360
5,500	11,830	5,525	31,180	5,550	59,880
5,505	14,920	5,530	36,100	5,555	66,740
5,510	18,480	5,535	41,440	5,560	73,940
5,515	22,390	5,540	47,200		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41770	41670	47850	61140	65800	69920	68200	72470	68440	52070	32320	16000
2	41460	42160	48190	61410	65770	70060	68140	72770	68150	51220	31830	15590
3	41030	42550	48540	61660	65880	70110	68130	72920	67730	50570	31510	15210
4	40790	42710	48890	61870	65990	70160	68260	73060	67300	49760	31060	14790
5	40410	42870	49480	62030	66080	70250	68330	73210	67740	49200	30530	14470
6	40130	42990	50070	62120	66180	70330	68480	73360	66180	48590	29900	14150
7	40000	42860	50650	62200	66300	70430	68630	73360	65480	48080	29310	13780
8	40050	42890	51210	62400	66440	70420	68690	73650	64920	47540	28610	13450
9	40110	42960	51770	62670	66560	70490	68740	73940	64230	47010	28000	13190
10	40130	43020	52320	62900	66690	70520	68820	73940	63680	46380	27510	12900
11	40080	43040	52900	63140	66840	70550	68910	73940	63130	45750	27170	12650
12	40170	43110	53370	63300	66940	70600	68950	73940	62580	45100	26760	12380
13	40180	43160	53830	63440	67040	70680	69040	73940	62040	44480	26390	12220
14	40300	43260	54280	63600	67140	70720	69120	73940	61490	43760	25940	12150
15	40240	43290	54730	63740	67100	70750	69200	73940	60950	43100	25400	12070
16	40250	43350	55180	63880	67200	70820	69310	73940	60550	42440	24810	12100
17	40150	43490	55600	64010	67310	70880	69420	73940	60150	41690	24090	12090
18	39990	43580	55990	64140	67570	70960	69550	73940	59740	40920	23460	11910
19	39910	43890	56390	64290	67730	71050	69720	73800	59080	40210	22860	11730
20	39750	44040	56780	64410	67830	71190	69920	73800	58550	39570	22310	11440
21	39840	44190	57170	64530	67980	71380	70170	73800	58020	38860	21810	11130
22	39700	44480	57570	64640	68110	71320	70430	73650	57490	38040	21340	10970
23	39520	44940	57970	64770	68220	71190	70800	73360	56970	37270	20850	10770
24	39150	45350	58350	64890	68340	70810	71110	72770	56450	36790	20400	10620
25	39020	45750	58750	65020	68650	70440	71390	72180	55870	36350	19840	10470
26	39080	46120	59280	65140	69100	70090	71620	71460	55320	35940	19190	10350
27	39510	46490	59660	65270	69380	69730	71830	70730	54670	35690	18570	10150
28	39940	46780	59960	65390	69750	69300	72010	70150	54090	34980	17990	9980
29	40380	47130	60360	65500	---	68910	72210	69580	53470	34300	17460	9870
30	40810	47500	60630	65610	---	68480	72470	69290	52720	33650	16970	9970
31	41230	---	60890	65710	---	68240	---	68860	---	32940	16470	---
MAX	41770	47500	60890	65710	69750	71380	72470	73940	68440	52070	32320	16000
MIN	39020	41670	47850	61140	65770	68240	68130	68860	52720	32940	16470	9870
(#)	5534.8	5540.3	5550.8	5554.3	5557.1	5556.1	5559.0	5556.5	5544.5	5526.8	5507.2	5496.6
(*)	-880	+6270	+13390	+4820	+4040	-1510	+4230	-3610	-16140	-19780	-16470	-6500

CAL YR 1993 . . . . . (*) +46,350
WTR YR 1994 . . . . . (*) -32,140

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

10132000 WEBER RIVER AT ECHO, UT

LOCATION.--Lat 40°58'04", long 111°26'13", in NE¼SE¼NE¼ 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, Ut.

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 sea level, from Echo Reservoir elevations. Prior to Apr. 18, 1931, staff gage at site 0.3 mi upstream at different datum. Apr. 18, 1931 to Mar. 23, 1950, water-stage recorder at site 0.1 mi downstream at different datum. Mar. 24, 1950 to Sept. 30, 1960 water-stage recorder at site 0.25 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Echo Reservoir (see station 10131500).

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 discharge 644 ft³/s July 1, 2, gage height, 3.23 ft; minimum daily discharge 6.8 ft³/s, Jan. 20-22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	442	52	23	33	8.0	10	91	133	456	596	532	412
2	442	52	15	33	8.0	51	91	133	463	630	521	420
3	434	93	11	33	8.0	83	90	133	450	610	529	419
4	435	189	11	34	8.0	83	89	180	459	590	562	415
5	434	188	11	34	8.2	83	90	215	491	563	599	396
6	405	208	11	34	8.3	83	89	194	517	521	618	380
7	332	222	11	40	8.4	85	119	179	511	515	602	373
8	285	222	11	45	8.4	85	141	179	542	521	572	342
9	285	220	11	45	8.2	85	140	254	541	548	548	343
10	287	232	12	45	8.2	85	138	305	509	559	522	361
11	298	239	12	46	8.0	85	138	306	485	572	507	352
12	283	247	12	46	8.4	85	138	305	484	578	494	334
13	283	254	12	46	8.8	85	138	302	484	584	504	247
14	305	255	12	46	38	87	136	319	487	597	536	261
15	350	247	12	45	66	88	136	316	466	593	576	237
16	371	231	20	46	8.4	90	136	294	432	592	609	193
17	380	231	35	46	8.4	91	135	301	429	595	628	243
18	380	165	30	46	8.7	91	135	287	463	595	622	300
19	380	133	30	20	8.8	91	134	219	469	605	595	311
20	320	166	31	6.8	8.8	91	134	210	482	627	557	316
21	279	166	31	6.8	8.7	128	134	238	517	628	535	313
22	351	87	31	6.8	8.6	161	131	315	531	629	531	283
23	348	52	31	6.9	9.1	229	131	417	501	627	519	286
24	352	49	32	6.9	9.2	282	130	453	501	629	511	291
25	339	49	32	7.0	10	282	130	474	501	625	531	273
26	147	49	32	7.0	10	280	130	485	515	605	527	280
27	52	49	32	7.2	10	277	130	477	537	601	502	301
28	52	40	32	7.5	10	273	130	437	541	604	462	301
29	52	23	32	7.7	---	273	130	418	552	621	441	222
30	52	23	33	7.9	---	273	131	435	592	621	423	175
31	52	---	33	8.0	---	167	---	476	---	586	417	---
TOTAL	9207	4433	684	849.5	329.6	4242	3745	9389	14908	18367	16632	9380
MEAN	297	148	22.1	27.4	11.8	137	125	303	497	592	537	313
MAX	442	255	35	46	66	282	141	485	592	630	628	420
MIN	52	23	11	6.8	8.0	10	89	133	429	515	417	175
AC-FT	18260	8790	1360	1680	654	8410	7430	18620	29570	36430	32990	18610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1994, BY WATER YEAR (WY)

MEAN	119	112	92.0	89.7	89.4	91.9	181	590	694	460	388	257
MAX	297	263	194	175	214	506	580	2158	1682	650	597	492
(WY)	1994	1928	1928	1928	1952	1952	1938	1952	1950	1957	1990	1993
MIN	.45	.43	.29	.43	.42	.75	1.12	27.2	235	156	49.9	23.0
(WY)	1993	1993	1993	1955	1993	1993	1955	1991	1934	1928	1931	1934

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1928 - 1994	
ANNUAL TOTAL	115481.78		92166.1			
ANNUAL MEAN	316		253		264	
HIGHEST ANNUAL MEAN					566	1952
LOWEST ANNUAL MEAN					108	1934
HIGHEST DAILY MEAN	1650	May 28	630	Jul 2	3010	May 7 1952
LOWEST DAILY MEAN	.21	Feb 9	6.8	Jan 20	.17	Jan 3 1991
ANNUAL SEVEN-DAY MINIMUM	.25	Feb 4	6.9	Jan 20	.19	Dec 6 1992
ANNUAL RUNOFF (AC-FT)	229100		182800		191600	
10 PERCENT EXCEEDS	741		562		580	
50 PERCENT EXCEEDS	222		222		158	
90 PERCENT EXCEEDS	.51		10		3.9	

10132490 LOST CREEK RESERVOIR NEAR CROYDON, UT

LOCATION.--Lat 41°11'05", long 111°23'59", in NW¼SE¼NE¼ sec. 8, T. 5 N., R. 5 E., Morgan County, Hydrologic Unit 16020101, 1.9 mi upstream from Hell Canyon and 8.1 mi northeast of Croydon.

DRAINAGE AREA.--123 mi².

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Indicating float tape in gage house on top of dam until Apr. 29, 1989, water-stage recorder equipped with satellite transmission thereafter. Datum of gage is 5,912.3 ft above sea level, (levels by Bureau of Reclamation).

REMARKS.--Records good. Reservoir is formed by earthfill rock-faced dam; active storage began Apr. 22, 1967. Active capacity, 20,010 acre-ft at elevation 6,005.0 ft above mean sea level. Dead storage, 2,500 acre-ft between elevation 5,835.0 ft (streambed at dam axis) and 5,912.3 ft (top of dead storage). Figures given herein represent active contents. Water is used for irrigation, fish and wildlife propagation along Lost Creek, and irrigation, municipal, and industrial use below confluence of Lost Creek and Weber River.

COOPERATION.--Gage-height record until Apr. 29, 1989, and capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 21,270 acre-ft, May 30, June 1, 1983; elevation, 6,008.4 ft. Minimum since original filling of reservoir, 3,920 acre-ft Oct. 28, 29, 1992, elevation, 5,943.2 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 19,780 acre-ft May 25, elevation, 6,004.3 ft; minimum contents, 12,350 acre-ft Sept. 30, elevation, 5,981.5 ft.

CAPACITY TABLE (ELEVATION, IN FEET, AND USABLE CONTENTS, IN ACRE-FEET)

5,980	11,910	5,995	16,510
5,985	13,350	6,000	18,220
5,990	14,890	6,005	20,010

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14010	13820	13680	13630	13630	13730	14460	17260	19410	17370	15180	13440
2	14000	13810	13680	13630	13620	13750	14500	17330	19380	17300	15120	13390
3	13990	13810	13680	13630	13610	13760	14540	17430	19310	17220	15050	13350
4	13980	13810	13680	13620	13610	13780	14590	17540	19240	17160	14990	13310
5	13960	13810	13680	13630	13620	13800	14630	17670	19170	17080	14940	13260
6	13950	13810	13670	13640	13610	13820	14680	17820	19090	16990	14890	13210
7	13940	13790	13670	13640	13620	13840	14720	18000	19010	16900	14860	13170
8	13930	13780	13670	13640	13630	13850	14760	18160	18930	16820	14810	13130
9	13920	13770	13670	13640	13630	13870	14790	18320	18860	16750	14770	13090
10	13900	13770	13670	13640	13640	13880	14840	18500	18780	16690	14730	13040
11	13870	13770	13670	13640	13650	13900	14880	18670	18710	16620	14700	13010
12	13860	13760	13670	13640	13650	13920	14920	18830	18620	16540	14650	12970
13	13850	13760	13660	13640	13650	13930	14970	18990	18550	16480	14610	12920
14	13850	13750	13660	13640	13650	13950	15040	19120	18470	16450	14570	12880
15	13850	13750	13660	13640	13650	13970	15120	19230	18380	16400	14520	12840
16	13860	13740	13660	13640	13650	14000	15210	19320	18300	16360	14410	12800
17	13860	13740	13660	13640	13650	14020	15310	19410	18210	16330	14290	12760
18	13860	13730	13660	13630	13660	14050	15420	19470	18140	16290	14170	12720
19	13860	13730	13660	13630	13670	14100	15560	19520	18060	16210	14050	12680
20	13860	13730	13650	13630	13670	14140	15710	19580	17980	16140	14000	12640
21	13860	13730	13640	13630	13670	14170	15870	19620	17900	16060	13950	12600
22	13860	13720	13630	13630	13680	14210	16060	19670	17870	15950	13890	12570
23	13860	13710	13630	13630	13680	14240	16270	19710	17830	15860	13840	12550
24	13860	13710	13630	13630	13680	14260	16450	19760	17780	15810	13800	12530
25	13850	13710	13630	13630	13690	14290	16630	19780	17730	15740	13750	12500
26	13850	13700	13630	13620	13700	14310	16760	19760	17680	15660	13700	12460
27	13850	13700	13630	13630	13710	14330	16890	19700	17630	15560	13660	12430
28	13850	13690	13630	13640	13720	14350	17000	19650	17560	15480	13620	12400
29	13840	13680	13630	13630	---	14380	17100	19590	17510	15390	13570	12370
30	13840	13680	13630	13640	---	14400	17190	19520	17440	15300	13530	12350
31	13820	---	13630	13630	---	14420	---	19460	---	15230	13480	---
MAX	14010	13820	13680	13640	13720	14420	17190	19780	19410	17370	15180	13440
MIN	13820	13680	13630	13620	13610	13730	14460	17260	17440	15230	13480	12350
(#)	5986.5	5986.1	5985.9	5985.9	5986.2	5988.5	5997.0	6003.5	5997.7	5991.1	5985.4	5981.5
(*)	-220	-140	-50	0	+90	+700	+2770	+2270	-2020	-2210	-1750	-1130

CAL YR 1993 . . . . . (*) +9510
WTR YR 1994 . . . . . (*) -1690

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.
e Estimated

10133540 KIMBALL CREEK ABOVE EAST CANYON CREEK NEAR PARK CITY, UT

LOCATION.--Lat 40°43'31", long 111°30'49", in NW¼NE¼NE¼ sec. 20, T. 1 S., R. 4 E., Summit County, Hydrologic Unit 16020101, on right bank below foot-bridge in State rest area along Interstate I-80, 1.5 mi east of Kimball Junction and 5.5 mi north of Park City.

DRAINAGE AREA.--12.2 mi^2.

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

REVISED RECORDS.--WRD UT-92-1: 1991.

GAGE.--Water-stage recorder. Elevation of gage is 6,360 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 221 ft^3/s May 7, 1993, gage height, 5.17 ft; no flow many days during July, August and September 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.8 ft^3/s Apr. 4, gage height, 3.29 ft; no flow many days during July, August and September

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.10	.10	.05	e.09	.53	6.3	3.2	.06	.01	.01	e.00
2	.50	.10	.12	.05	e.09	.83	6.1	3.0	.06	.01	e.00	e.00
3	.41	.10	.12	.05	e.08	1.2	6.0	3.6	.05	.01	.01	e.00
4	.38	.12	.13	.05	e.08	1.8	7.8	3.1	.05	.01	.01	e.00
5	.32	.10	.12	.05	e.09	2.0	6.9	2.8	.05	.01	.01	e.00
6	.31	.08	.13	.06	e.10	2.1	6.3	2.5	.04	.01	e.00	e.00
7	.30	.07	.12	.06	.10	2.3	6.6	2.3	.04	.01	e.00	e.00
8	.47	.07	.12	.05	.10	2.7	6.5	2.2	.04	.01	e.00	e.00
9	.43	.07	.12	.06	.09	2.6	6.4	1.9	.03	.01	.01	e.00
10	.36	.07	.11	.06	.09	2.7	7.0	1.8	.03	.01	.01	e.00
11	.29	.09	.11	.07	.10	3.0	6.5	1.5	.03	.01	.01	e.00
12	.43	.11	.10	.07	.10	4.0	6.1	1.6	.02	.01	.01	e.00
13	.24	.12	.09	.07	e.09	4.6	6.3	1.7	.02	.01	.01	e.00
14	.33	.10	.08	.08	e.09	5.5	6.8	1.5	.02	.01	.01	e.00
15	.29	.07	.08	.07	.11	5.7	6.6	1.4	.02	.01	.01	e.00
16	.24	.06	.08	.07	.10	6.3	6.4	1.3	.02	.01	.01	e.00
17	.17	.06	.07	.09	.10	6.4	6.4	1.2	.02	.01	.01	e.00
18	.24	.06	.06	.08	.13	5.6	6.6	1.1	.02	.01	.01	e.00
19	.12	e.05	.06	.08	.13	5.9	6.8	.92	.01	.01	.01	.01
20	.12	e.05	.06	.09	.13	6.4	6.9	.81	.01	.01	.01	.01
21	.12	e.05	e.05	.09	.13	6.1	6.6	.63	.01	.01	.01	.01
22	.12	e.05	e.05	.09	.14	5.8	6.3	.45	.01	.02	.01	.01
23	.12	e.05	e.05	.09	.15	5.7	6.1	.27	.01	.03	e.01	.01
24	.10	e.04	e.05	.10	.18	6.2	5.7	.18	.01	.01	e.00	.01
25	.08	e.04	e.05	.10	.26	6.8	5.3	.12	.01	.01	e.00	.01
26	.11	e.06	e.05	.10	.29	6.4	5.0	.10	.01	.01	e.00	.01
27	.10	e.08	e.05	.10	.33	5.7	5.0	e.10	.01	.01	e.00	.01
28	.11	e.10	.06	.11	.42	5.5	4.6	e.09	.01	.01	e.00	.01
29	.13	.12	.06	.12	---	5.5	4.2	.08	.01	e.00	e.00	.01
30	.10	.10	.05	.11	---	5.5	3.6	.07	.01	.01	e.00	.01
31	.10	---	.05	.11	---	5.7	---	.06	---	.01	e.00	---
TOTAL	7.64	2.34	2.55	2.43	3.89	137.06	183.7	41.58	0.74	0.33	0.19	0.12
MEAN	.25	.078	.082	.078	.14	4.42	6.12	1.34	.025	.011	.006	.004
MAX	.50	.12	.13	.12	.42	6.8	7.8	3.6	.06	.03	.01	.01
MIN	.08	.04	.05	.05	.08	.53	3.6	.06	.01	.00	.00	.00
AC-FT	15	4.6	5.1	4.8	7.7	272	364	82	1.5	.7	.4	.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1994, BY WATER YEAR (WY)

MEAN	.073	.042	.055	.073	.15	4.45	4.40	5.20	.61	.021	.013	.16
MAX	.25	.078	.082	.10	.31	13.3	8.10	15.7	2.04	.048	.024	.71
(WY)	1994	1994	1994	1993	1993	1993	1993	1993	1991	1993	1993	1993
MIN	.010	.013	.020	.046	.060	.90	.96	.24	.025	.011	.006	.004
(WY)	1993	1993	1991	1991	1990	1992	1992	1992	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1990 - 1994	
ANNUAL TOTAL	1214.28		382.57			
ANNUAL MEAN	3.33		1.05		1.28	
HIGHEST ANNUAL MEAN					3.30	1993
LOWEST ANNUAL MEAN					.21	1992
HIGHEST DAILY MEAN	114	May 7	7.8	Apr 4	114	May 7 1993
LOWEST DAILY MEAN	.01	Jul 1	.00	Jul 29	.00	Jul 7 1990
ANNUAL SEVEN-DAY MINIMUM	.01	Jul 1	.00	Aug 24	.00	Aug 21 1990
ANNUAL RUNOFF (AC-FT)	2410		759		926	
10 PERCENT EXCEEDS	8.4		5.7		3.3	
50 PERCENT EXCEEDS	.20		.09		.06	
90 PERCENT EXCEEDS	.02		.01		.01	

e Estimated

10133600 McLEOD CREEK NEAR PARK CITY, UT

LOCATION.--Lat 40°41'15", long 111°31'58", in SW¼NE¼SE¼ sec. 31, T. 1 S., R. 4 E., Summit County, Hydrologic Unit 16020101, 50 ft below channel dividing structure, 3.2 mi northwest of Park City.

DRAINAGE AREA.--8.78 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,590 ft above sea level, from topographic map.

REMARKS.--Records good except for winter period, which is fair.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 38 ft³/s May 16; minimum daily discharge, 2.0 ft³/s Sept. 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	11	6.0	5.7	4.5	8.6	13	13	24	6.0	6.4	2.7
2	6.0	8.6	5.8	6.0	4.6	9.5	11	13	24	7.0	6.3	2.7
3	6.0	9.8	5.0	6.1	4.9	9.9	13	13	22	7.4	6.0	2.7
4	5.4	10	7.7	6.3	5.2	10	11	11	19	7.1	6.3	2.7
5	5.7	7.4	6.1	6.2	6.5	9.4	9.5	12	17	7.1	6.1	2.9
6	7.4	6.8	5.4	5.9	7.9	9.6	9.6	13	16	6.7	5.6	2.7
7	12	7.6	5.7	5.7	9.2	10	10	15	14	6.8	5.7	2.5
8	9.9	7.7	10	5.9	10	10	9.7	16	13	6.8	6.2	2.5
9	8.8	8.2	11	6.3	6.6	9.3	12	17	11	6.3	6.5	2.6
10	8.4	9.7	10	6.0	8.7	9.5	11	18	10	6.5	7.0	2.5
11	8.8	11	10	6.2	10	10	10	18	11	6.8	6.8	3.0
12	9.7	11	9.3	6.8	6.0	11	9.9	20	10	7.1	6.5	3.1
13	8.7	10	8.9	8.5	4.6	11	10	30	11	6.7	7.1	2.8
14	10	7.6	8.1	7.0	5.5	12	10	34	11	6.0	6.8	2.8
15	11	7.7	8.4	6.0	6.4	13	9.8	36	10	6.9	6.1	3.0
16	11	7.4	8.8	5.4	7.6	13	10	38	10	6.6	5.8	2.9
17	11	7.4	8.4	5.0	9.3	13	11	36	9.1	6.7	4.9	2.8
18	13	8.4	8.1	4.9	8.5	12	11	32	9.0	6.7	5.1	2.8
19	9.6	6.7	7.8	5.1	6.9	24	11	29	9.1	7.2	4.9	2.6
20	6.6	7.1	7.5	5.4	6.3	15	13	27	9.3	6.4	4.8	2.5
21	8.0	8.9	7.6	6.1	5.8	15	15	23	11	6.5	4.6	2.4
22	9.5	11	7.7	6.6	5.5	15	15	23	9.9	19	5.8	2.5
23	9.1	6.8	7.5	7.2	5.9	13	15	21	9.5	8.1	4.7	2.2
24	9.0	5.5	7.7	7.4	6.4	13	15	22	8.5	6.3	3.8	2.0
25	11	5.3	7.9	7.4	7.2	13	15	21	7.8	6.6	3.3	2.2
26	9.4	5.3	8.3	7.7	8.4	13	15	21	7.2	6.5	3.2	2.4
27	10	5.4	9.0	7.6	9.4	11	14	23	6.8	6.2	3.2	2.6
28	10	5.4	8.7	6.5	8.7	12	15	24	6.0	6.4	3.1	2.2
29	10	6.4	8.8	5.9	---	12	15	25	6.1	6.8	3.4	3.6
30	7.8	7.6	5.6	5.1	---	12	13	24	6.1	6.6	3.2	5.4
31	9.9	---	5.6	4.5	---	12	---	25	---	6.8	3.0	---
TOTAL	279.0	238.7	242.4	192.4	196.5	370.8	362.5	693	348.4	220.6	162.2	82.3
MEAN	9.00	7.96	7.82	6.21	7.02	12.0	12.1	22.4	11.6	7.12	5.23	2.74
MAX	13	11	11	8.5	10	24	15	38	24	19	7.1	5.4
MIN	5.4	5.3	5.0	4.5	4.5	8.6	9.5	11	6.0	6.0	3.0	2.0
AC-FT	553	473	481	382	390	735	719	1370	691	438	322	163

CAL YR 1993 TOTAL 5525.70 MEAN 15.1 MAX 100 MIN .69 AC-FT 10960
WTR YR 1994 TOTAL 3388.8 MEAN 9.28 MAX 38 MIN 2.0 AC-FT 6720

10133895 EAST CANYON CREEK ABOVE BIG BEAR HOLLOW NEAR PARK CITY, UT

LOCATION.--Lat 40°47'21", long 111°35'48", in SW¼NW¼SE¼ sec. 27, T. 1 N., R. 3 E., Summit County, Hydrologic Unit 16020101 on left bank, 100 ft above Big Bear Hollow, 2.2 mi north of Jeremy Ranch and 10 mi northwest of Park City.

DRAINAGE AREA.--75.0 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,120 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, from rating curve extended above 510 ft³/s, 866 ft³/s May 7, 1993, gage height, 8.55 ft from highwater marks; minimum daily discharge, 0.75 ft³/s July 31, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 93 ft³/s Mar. 19, May 17, gage height, 5.75 ft; minimum daily discharge, 1.6 ft³/s Sept. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	19	e17	e13	e14	25	42	48	46	8.7	5.7	7.2
2	12	18	e17	e14	e15	28	44	47	41	9.5	7.3	5.4
3	11	18	e18	e15	e16	31	39	57	38	10	6.3	4.9
4	10	18	e17	e16	e16	35	67	49	35	12	6.2	4.0
5	12	16	e17	e15	e16	38	51	49	31	13	5.1	4.9
6	14	16	e18	e14	e16	37	41	51	28	11	4.6	8.1
7	22	17	e18	e14	e17	39	43	53	28	12	2.9	7.2
8	32	18	e18	e15	e16	40	46	55	27	12	1.9	6.3
9	26	18	e19	e14	e16	38	41	54	23	11	6.4	6.0
10	24	22	e18	e14	e17	39	54	56	19	8.9	7.6	7.9
11	22	20	19	e15	e19	41	47	53	19	8.2	10	4.8
12	37	19	18	e16	e18	47	40	61	18	8.9	7.3	9.7
13	27	20	e17	18	e18	54	41	80	20	9.9	5.3	7.4
14	32	18	e16	19	e18	60	47	88	18	8.7	8.1	14
15	31	14	e15	e17	e22	60	49	85	18	8.0	6.5	3.4
16	30	16	e15	e16	e19	60	47	87	19	8.3	6.6	2.3
17	27	17	e14	e17	e20	68	49	90	15	8.1	8.5	1.8
18	34	e17	e13	e16	e20	49	52	81	13	7.4	4.9	1.6
19	27	e16	e13	e14	e20	57	55	75	14	8.3	8.5	2.1
20	23	e16	e12	e16	e20	67	57	72	14	6.1	12	2.7
21	21	e17	e11	e16	e21	54	60	66	15	5.6	8.7	5.6
22	21	e16	e11	e17	e20	52	63	58	19	5.5	e6.3	6.0
23	21	e16	e12	e18	e20	44	63	e49	16	27	e7.9	8.4
24	22	e16	e12	20	e21	45	62	e42	13	9.8	12	7.8
25	21	e15	e13	17	e21	50	57	43	10	7.6	11	7.2
26	21	e16	e13	15	e22	61	55	43	10	5.7	6.6	6.7
27	20	e15	e14	15	e22	44	58	48	10	4.6	5.2	7.3
28	21	e16	e15	e14	e23	36	57	54	12	4.6	9.6	6.2
29	21	e16	e14	e14	---	36	59	46	9.7	5.0	9.9	6.6
30	20	e17	e14	e14	---	34	53	44	7.5	3.7	7.7	15
31	19	---	e13	e13	---	35	---	48	---	4.2	9.2	---
TOTAL	692	513	471	481	523	1404	1539	1832	606.2	273.3	225.8	188.5
MEAN	22.3	17.1	15.2	15.5	18.7	45.3	51.3	59.1	20.2	8.82	7.28	6.28
MAX	37	22	19	20	23	68	67	90	46	27	12	15
MIN	10	14	11	13	14	25	39	42	7.5	3.7	1.9	1.6
AC-FT	1370	1020	934	954	1040	2780	3050	3630	1200	542	448	374

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1994, BY WATER YEAR (WY)

MEAN	11.1	12.0	11.6	11.4	15.8	40.6	41.2	68.5	44.6	13.9	9.40	7.51
MAX	22.3	17.1	15.2	15.5	20.5	78.5	73.1	174	95.4	33.5	16.6	10.5
(WY)	1994	1994	1994	1994	1991	1993	1993	1993	1993	1993	1993	1991
MIN	4.23	9.84	8.96	7.25	12.1	20.9	16.5	13.1	7.69	5.87	5.31	5.45
(WY)	1993	1993	1991	1993	1990	1992	1992	1992	1992	1990	1992	1990

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1990 - 1994	
ANNUAL TOTAL	16980.4		8748.8			
ANNUAL MEAN	46.5		24.0		24.0	
HIGHEST ANNUAL MEAN					44.0	1993
LOWEST ANNUAL MEAN					11.3	1992
HIGHEST DAILY MEAN	550	May 7	90	May 17	550	May 7 1993
LOWEST DAILY MEAN	6.2	Jan 5	1.6	Sep 18	.75	Jul 31 1992
ANNUAL SEVEN-DAY MINIMUM	6.3	Jan 26	2.8	Sep 15	1.5	Oct 16 1992
ANNUAL RUNOFF (AC-FT)	33680		17350		17390	
10 PERCENT EXCEEDS	135		54		56	
50 PERCENT EXCEEDS	20		17		13	
90 PERCENT EXCEEDS	8.2		6.4		6.2	

e Estimated

10134000 EAST CANYON RESERVOIR NEAR MORGAN, UT

LOCATION.--Lat 40°55'14", long 111°35'59", in NE¼SE¼NW¼ sec. 10, T. 2 N., R. 3 E., Morgan County, Hydrologic Unit 16020102, on upstream face of concrete dam on East Canyon Creek, 9.0 mi southeast of Morgan.

DRAINAGE AREA.--144 mi².

PERIOD OF RECORD.--October 1931 to current year. October 1931 to September 1937, month-end contents only published in WSP 1314.

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

GAGE.--Water-stage recorder. Prior to Oct. 1, 1989, elevations determined from direct readings on upstream face of dam on days shown. Datum of gage is 5,577.0 ft above sea level, (levels by Bureau of Reclamation). Prior to Oct. 1, 1953, staff gage at site 500 ft east of dam and Oct. 1, 1953 to Sept. 30, 1964, tape gage on upstream face of dam then in use at different datum. Oct. 1, 1964 to Sept. 30, 1965, temporary reference marks at present datum set by Bureau of Reclamation.

REMARKS.--Records good. Reservoir was formed in 1896 by a 58-ft rockfill dam, capacity, 3,850 acre-ft, which was raised 25 ft in 1900, capacity, 9,000 acre-ft, raised 12 ft more in 1902, capacity, 14,000 acre-ft, was replaced in 1917 by concrete dam which formed a reservoir having a capacity of 25,790 acre-ft (revised), and was replaced in 1966 by present concrete thin-arch dam which forms a reservoir having an active capacity of 48,110 acre-ft between elevation 5,577.0 ft and 5,705.0 ft. Dead storage, 3,090 acre-ft. Figures given herein represent active contents. Water is used for irrigation in Morgan, Davis, and Weber Counties.

COOPERATION.--Capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 49,840 acre-ft June 1, 1983, elevation, 5,707.5 ft; no contents at times in 1931, 1934, 1937, 1946, 1954, 1961, 1965, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 48,370 acre-ft May 29, elevation, 5,705.4 ft; minimum, 25,430 acre-ft Sept. 30, elevation, 5,665.6 ft.

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

5,660	22,870	5,680	32,730	5,700	44,760
5,665	25,150	5,685	35,530	5,705	48,110
5,670	27,550	5,690	38,470	5,710	51,610
5,675	30,080	5,695	41,550		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35700	36270	37220	38120	39230	40640	42790	45390	48350	44190	37530	e31400
2	35650	36290	37260	38170	39260	40760	42760	45500	48340	43950	37290	e30200
3	35600	36320	37290	38200	39290	40850	42770	45640	48330	43680	37070	e29930
4	35550	36360	37320	38240	39320	40950	42860	45800	48320	43500	36860	e29770
5	35490	36380	37350	38300	39340	41050	42940	45920	48300	43280	36630	e29460
6	35430	36410	37380	38350	39370	41180	42980	46040	48280	43030	36410	e29200
7	35410	36440	37410	38380	39410	41280	43010	46160	48250	42850	36130	e28900
8	35430	36470	37450	38420	39460	41380	43060	46290	48230	42660	35920	e28650
9	35430	36490	37480	38460	39510	41470	43080	46440	48220	42460	35710	e28350
10	35430	36530	37520	38500	39550	41560	43120	46570	48200	42240	35500	e28100
11	35430	36570	37550	38540	39600	41660	43180	46700	48120	42000	35290	e27800
12	35450	36610	37590	38580	39630	41800	43210	46840	48050	41810	35080	e27500
13	35480	36640	37620	38610	39660	41920	43230	46980	47960	41650	34880	e27210
14	35530	36670	37650	38650	39700	42050	43270	47150	47790	41510	34670	e26920
15	35580	36710	37680	38680	39730	42200	43320	47340	47180	41280	34460	e26680
16	35620	36730	37710	38730	39760	42350	43380	47480	47440	41090	34250	e26530
17	35670	36760	37740	38750	39810	42510	43440	47660	47250	40870	34030	e26340
18	35730	36800	37760	38780	39880	42640	43510	47820	47050	40630	33820	e26240
19	35790	36830	37780	38810	39930	42780	43590	47960	46850	40410	33610	e26200
20	35830	36860	37810	38850	39970	42970	43690	48090	46640	40170	33400	26120
21	35870	36890	37830	38880	40010	43110	43870	48200	46440	39920	33190	26050
22	35910	36930	37840	38910	40040	43230	44050	48270	46230	39680	32990	25970
23	35950	37000	37870	38940	40080	43340	44230	48290	46030	39430	32770	25890
24	35990	37030	37900	38990	40130	43340	44400	48310	45820	39190	32550	25810
25	36020	37050	37920	39020	40210	43280	44550	48320	45620	38950	e32350	25740
26	36050	37080	37950	39050	40340	43300	44690	48320	45420	38890	e32140	25660
27	36090	37100	37970	39090	40450	43240	44840	48330	45230	38870	e31980	25590
28	36120	37130	38010	39130	40540	43150	44990	48360	44990	38630	e31710	25530
29	36170	37160	38030	39140	---	43040	45150	48370	44690	38310	e31440	25470
30	36200	37190	38050	39180	---	42950	45280	48360	44430	38050	e31120	25430
31	36230	---	38090	39210	---	42860	---	48330	---	37780	e30860	---
MAX	36230	37190	38090	39210	40540	43340	45280	48370	48350	44190	37530	31400
MIN	35410	36270	37220	38120	39230	40640	42760	45390	44430	37780	30860	25430
(#)	5686.2	5687.9	5689.4	5691.2	5693.4	5697.1	5700.8	5705.3	5699.5	5688.9	5676.5	5665.6
(*)	+480	+960	+900	+1120	+1330	+2320	+2420	+3050	-3900	-6650	-6920	-5430

CAL YR 1993 . . . . . (*) +20060
WTR YR 1994 . . . . . (*) -10320

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.
(e) Estimated.

10134500 EAST CANYON CREEK NEAR MORGAN, UT

LOCATION.--Lat 40°55'21", long 111°36'23", in SW¼NW¼NW¼ 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 sea level, from river-profile map.

REVISED RECORDS.--WSP 1634, WDR UT-77-1: Drainage area.

REMARKS.--Records good. No diversions between station and East Canyon Reservoir (see preceding page), 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 daily discharge, 145 ft³/s Sept. 13; minimum daily discharge, 5.3 ft³/s, many days in December an January.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	6.0	5.3	5.3	6.0	6.9	97	7.4	56	115	112	141
2	41	6.0	5.3	5.3	6.3	7.0	63	7.6	54	115	111	142
3	41	6.0	5.3	5.3	7.0	7.5	49	8.1	51	115	110	143
4	41	6.0	5.3	5.4	7.0	8.0	49	7.8	49	115	110	142
5	41	5.9	5.3	6.0	7.3	8.1	49	8.1	45	115	110	142
6	41	5.7	5.3	6.0	7.4	7.6	49	8.1	43	115	110	142
7	37	5.7	5.3	6.0	7.0	7.7	49	8.2	39	115	111	141
8	34	5.9	5.3	6.0	7.1	8.0	49	8.9	35	115	111	142
9	30	6.0	5.3	6.0	6.7	8.1	49	8.9	33	114	110	143
10	28	6.0	5.3	6.0	7.0	8.0	49	8.9	59	114	109	143
11	24	6.0	5.3	6.0	6.8	8.1	48	8.9	68	115	107	142
12	22	6.0	5.5	6.0	6.8	8.1	48	8.8	62	116	106	143
13	18	6.0	5.3	6.0	7.0	8.1	47	8.9	82	116	105	145
14	17	6.0	5.3	6.0	7.1	8.1	47	8.9	92	116	105	118
15	16	6.0	5.3	6.0	6.7	8.1	47	8.9	110	116	104	108
16	12	6.0	5.3	6.0	6.7	8.1	47	8.9	116	117	104	109
17	10	6.0	5.3	6.0	7.3	8.1	47	8.9	116	117	104	75
18	7.9	6.0	5.3	6.0	7.1	8.1	48	8.9	116	118	104	59
19	6.1	6.0	5.3	6.0	7.2	8.5	48	8.9	115	118	105	55
20	6.0	5.9	5.3	6.0	7.0	8.1	21	14	115	118	104	52
21	6.0	6.0	5.3	6.0	7.0	8.1	10	30	114	118	104	53
22	6.0	6.0	5.3	6.0	6.7	8.2	11	41	114	118	105	53
23	6.0	6.0	5.3	6.0	6.7	39	8.2	46	113	118	104	53
24	6.0	5.8	5.3	6.0	6.9	83	7.4	49	113	117	104	48
25	6.0	5.5	5.3	6.2	7.3	97	7.4	51	e113	117	102	45
26	6.0	6.0	5.3	6.6	7.8	97	7.4	52	e113	116	102	45
27	6.0	6.0	5.3	6.1	8.1	97	7.4	54	e114	114	127	45
28	6.0	6.0	5.3	6.0	7.7	97	7.4	58	e114	114	139	41
29	6.0	6.0	5.3	6.0	---	97	7.4	59	e115	114	138	39
30	6.0	5.8	5.3	6.0	---	97	7.4	58	115	113	138	39
31	6.0	---	5.3	6.0	---	97	---	56	---	112	139	---
TOTAL	580.0	178.2	164.5	184.2	196.7	975.6	1081.0	730.0	2594	3586	3454	2888
MEAN	18.7	5.94	5.31	5.94	7.02	31.5	36.0	23.5	86.5	116	111	96.3
MAX	41	6.0	5.5	6.6	8.1	97	97	59	116	118	139	145
MIN	6.0	5.5	5.3	5.3	6.0	6.9	7.4	7.4	33	112	102	39
AC-FT	1150	353	326	365	390	1940	2140	1450	5150	7110	6850	5730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1994, BY WATER YEAR (WY)

MEAN	26.0	15.3	16.5	18.0	22.7	43.2	69.2	87.6	98.1	109	106	67.5
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 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1938 - 1994	
ANNUAL TOTAL	13788.5		16612.2			
ANNUAL MEAN	37.8		45.5		56.8	
HIGHEST ANNUAL MEAN					132	1984
LOWEST ANNUAL MEAN					17.8	1961
HIGHEST DAILY MEAN	167	Jun 4	145	Sep 13	768	May 5 1952
LOWEST DAILY MEAN	4.3	Jan 18	5.3	Dec 1	.20	Dec 19 1964
ANNUAL SEVEN-DAY MINIMUM	4.5	Jan 15	5.3	Dec 1	1.1	Oct 30 1960
ANNUAL RUNOFF (AC-FT)	27350		32950		41130	
10 PERCENT EXCEEDS	144		116		152	
50 PERCENT EXCEEDS	6.0		8.9		26	
90 PERCENT EXCEEDS	5.0		5.6		4.5	

e Estimated

10136500 WEBER RIVER AT GATEWAY, UT

LOCATION.--Lat 41°08'13", long 111°49'54", in NE¼SW¼SW¼ 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 sea level, by barometer. Oct. 13, 1889 to July 11, 1903, nonrecording gage at site 1.2 mi downstream at different datum. June 22, 1919 to Oct. 22, 1929, water-stage recorder at site 900 ft upstream at different datum. Oct. 22, 1929 to Nov. 27, 1964, at sites 1,300 ft downstream at different datums. Nov. 27, 1964 to Sept. 30, 1993, at present site at datum 10.0 ft lower.

REMARKS.--Records 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 hydroelectric powerplant. Flow regulated by Rockport, Echo, Lost Creek, and East Canyon Reservoirs (see stations 10129400, 10131500, 10132490, and 10134000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,980 ft³/s May 31, 1896; minimum recorded, 30 ft³/s Dec. 26, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,190 ft³/s Apr. 22, gage height, 13.67 ft; minimum discharge, 31 ft³/s Feb. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	357	176	127	83	50	451	489	489	375	325	364	324
2	341	153	142	86	52	423	460	470	382	349	354	292
3	330	146	120	90	54	472	444	542	367	370	348	304
4	307	225	120	102	54	470	516	595	314	360	332	303
5	318	260	115	263	56	440	456	805	326	371	341	294
6	344	260	116	160	56	504	418	894	360	357	338	269
7	422	290	109	128	93	412	436	899	363	351	347	297
8	426	294	116	118	261	354	447	813	384	328	331	291
9	398	292	110	122	137	319	437	839	412	309	383	217
10	374	294	109	116	124	304	517	917	362	314	376	224
11	395	315	113	107	113	357	487	837	322	315	410	230
12	415	318	133	113	92	404	459	798	319	333	350	218
13	401	331	135	107	86	349	476	827	315	344	346	162
14	424	336	123	103	101	338	541	810	314	335	343	162
15	471	339	126	107	149	333	579	699	317	337	318	187
16	499	327	107	107	108	356	615	636	330	350	354	140
17	508	314	86	100	81	390	672	579	316	362	379	123
18	498	302	97	99	160	346	742	502	316	374	381	144
19	486	199	92	108	145	657	820	424	330	388	442	124
20	500	195	83	81	116	474	875	349	332	392	428	132
21	353	212	79	74	116	379	912	276	322	384	380	175
22	460	221	76	69	98	502	1030	241	337	373	361	186
23	462	167	81	63	79	487	1070	287	356	394	327	159
24	463	126	73	84	83	571	958	325	338	376	316	150
25	458	112	75	85	400	644	818	347	321	385	338	138
26	354	112	76	73	505	639	741	344	290	384	321	137
27	181	124	82	68	597	606	685	348	311	365	330	152
28	171	108	87	65	537	578	619	351	332	357	365	150
29	177	90	86	59	---	583	569	346	304	369	349	194
30	168	98	91	67	---	573	510	330	329	393	301	193
31	164	---	97	61	---	570	---	334	---	402	299	---
TOTAL	11625	6736	3182	3068	4503	14285	18798	17253	10096	11146	10952	6071
MEAN	375	225	103	99.0	161	461	627	557	337	360	353	202
MAX	508	339	142	263	597	657	1070	917	412	402	442	324
MIN	164	90	73	59	50	304	418	241	290	309	299	123
AC-FT	23060	13360	6310	6090	8930	28330	37290	34220	20030	22110	21720	12040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1994, BY WATER YEAR (WY)

MEAN	246	216	224	235	281	490	999	1549	1126	542	460	360
MAX	896	548	1463	1330	1947	2575	3000	4798	4239	1161	828	1196
(WY)	1985	1983	1984	1984	1986	1986	1986	1952	1983	1975	1983	1983
MIN	57.9	58.0	43.6	45.7	49.2	67.8	105	281	293	238	156	62.3
(WY)	1993	1962	1993	1991	1993	1964	1977	1992	1977	1931	1924	1934

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1921 - 1994	
ANNUAL TOTAL	194948		117715			
ANNUAL MEAN	534		323		562	
HIGHEST ANNUAL MEAN					1397	1986
LOWEST ANNUAL MEAN					143	1961
HIGHEST DAILY MEAN	2520	Jun 7	1070	Apr 23	7390	May 5 1952
LOWEST DAILY MEAN	32	Jan 4	50	Feb 1	32	Jan 4 1993
ANNUAL SEVEN-DAY MINIMUM	37	Jan 4	55	Jan 31	35	Jan 31 1962
ANNUAL RUNOFF (AC-FT)	386700		233500		406800	
10 PERCENT EXCEEDS	1450		572		1320	
50 PERCENT EXCEEDS	410		330		354	
90 PERCENT EXCEEDS	48		90		100	

10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UT

LOCATION.--Lat 41°16'07", long 111°40'24", in $SE^{1}/_{4}NE^{1}/_{4}SW^{1}/_{4}$ 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 mi^2.

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 sea level, by barometer. Prior to Aug. 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 Jan. 4, 1966.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft^3/s May 3, 1952, gage height, 5.98 ft; minimum, 9 ft^3/s Feb. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 701 ft^3/s Apr. 22, gage height, 4.07 ft; minimum daily discharge, 27 ft^3/s Feb. 2, 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e63	30	31	32	e28	49	e105	229	102	80	74	52
2	64	30	31	32	e27	54	e105	212	95	80	76	52
3	59	30	31	31	e27	57	e106	219	90	80	76	52
4	53	30	31	32	e28	61	e105	223	87	80	75	52
5	53	30	31	34	e29	62	e105	240	84	80	74	52
6	53	30	31	33	32	65	e107	247	80	81	74	52
7	56	30	33	34	33	68	e110	245	78	79	66	52
8	e57	30	31	37	35	67	e116	234	76	77	64	51
9	54	30	32	33	35	66	e120	228	73	76	59	46
10	53	30	31	32	33	65	e125	364	73	77	58	42
11	52	30	32	32	33	67	e140	428	70	77	57	43
12	53	30	33	32	e30	72	e150	421	67	78	57	43
13	53	30	e31	32	e32	78	e160	413	73	81	57	43
14	47	30	32	32	e34	85	e170	373	81	82	56	44
15	e33	e30	32	32	e35	86	e184	324	79	83	55	44
16	e34	e31	31	32	33	88	200	293	79	84	55	44
17	e33	30	31	32	34	90	246	267	78	84	55	44
18	e32	31	e30	32	35	87	286	234	77	84	55	43
19	31	30	e31	33	34	130	358	214	77	84	55	43
20	30	e32	e31	33	38	123	469	194	76	83	56	44
21	30	e31	e31	35	34	114	527	175	75	82	56	44
22	30	e32	e29	33	34	137	604	160	78	80	56	43
23	30	33	e29	33	36	128	608	148	83	78	58	43
24	30	32	e29	32	34	120	583	137	87	78	61	43
25	30	e30	e29	32	40	125	485	130	87	78	61	43
26	30	e30	31	32	41	122	375	126	87	78	60	43
27	30	e31	31	32	45	116	353	122	85	80	58	43
28	30	e31	32	32	47	112	295	118	82	79	56	43
29	30	32	32	32	---	109	246	110	81	78	52	45
30	30	31	32	e31	---	107	234	103	81	77	53	43
31	30	---	32	e30	---	e113	---	103	---	74	52	---
TOTAL	1293	917	964	1006	956	2823	7777	7034	2421	2472	1877	1371
MEAN	41.7	30.6	31.1	32.5	34.1	91.1	259	227	80.7	79.7	60.5	45.7
MAX	64	33	33	37	47	137	608	428	102	84	76	52
MIN	30	30	29	30	27	49	105	103	67	74	52	42
AC-FT	2560	1820	1910	2000	1900	5600	15430	13950	4800	4900	3720	2720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1994, BY WATER YEAR (WY)

MEAN	42.7	40.7	43.0	43.2	50.9	92.6	278	430	163	70.7	57.8	47.7
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 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1922 - 1994	
ANNUAL TOTAL	48568		30911			
ANNUAL MEAN	133		84.7		114	
HIGHEST ANNUAL MEAN					260	1986
LOWEST ANNUAL MEAN					36.8	1977
HIGHEST DAILY MEAN	907	May 16	608	Apr 23	1640	May 5 1936
LOWEST DAILY MEAN	21	Feb 15	27	Feb 2	13	Feb 26 1977
ANNUAL SEVEN-DAY MINIMUM	24	Jan 24	29	Jan 30	13	Feb 28 1977
ANNUAL RUNOFF (AC-FT)	96330		61310		82300	
10 PERCENT EXCEEDS	339		179		271	
50 PERCENT EXCEEDS	66		55		51	
90 PERCENT EXCEEDS	27		30		32	

e Estimated

10139000 PINEVIEW RESERVOIR NEAR OGDEN, UT

LOCATION.--Lat 41°15'20", long 111°50'25", in $SE^{1}/_{4}NW^{1}/_{4}SE^{1}/_{4}$ sec. 16, T. 6 N., R. 1 E., Weber County, Hydrologic Unit 16020102, at trashback at Pineview Dam on Ogden River 3.8 mi west of Huntsville and 6 mi east of Ogden.

DRAINAGE AREA.--311 mi^2.

PERIOD OF RECORD.--November 1936 to September 1968, October 1989 to current year.

GAGE.--Water-stage recorder. Prior to Oct. 1, 1989 elevations determined from direct readings of outside staff gage read once daily. Datum of gage is 4818.0 ft above sea level.

REMARKS.--Reservoir is formed by earth-fill, rock-faced dam; storage began Nov. 16, 1936; capacity, 110,100 acre-ft at elevation 4,900 ft (maximum super storage) above sea level. During September 1939, sills of radial spillway gages were raised 1 ft, thus changing the top of spillway gates from elevation 4,871 to 4,872 ft. During 1957 the storage capacity was increased by raising the crest of the spillway to 4,878 ft and elevation of maximum super storage to 4,900 ft (additional capacity, 65,920 acre-ft). Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation in Weber River basin and Ogden River projects.

COOPERATION.--Capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 112,500 acre-ft June 11, 12, 1993, elevation 4900.8 ft minimum, 4 acre-ft, Jan. 10, 1957, elevation, 4,819.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 111,700 acre-ft May 21, elevation, 4,900.5 ft; minimum contents, 49,700 acre-ft Sept. 29, 30, elevation, 4,875.0 ft.

CAPACITY TABLE (ELEVATION, IN FEET, AND USABLE CONTENTS, IN ACRE-FEET)

4,870	40,680	4,890	82,820
4,875	49,700	4,900	110,100
4,880	59,670	4,901	113,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65600	70900	e73800	73500	e71800	76800	85900	103200	107500	92000	74000	58900
2	65700	70900	e73900	73200	e71900	77100	86000	103000	107400	91400	73600	58500
3	65800	70900	74000	73400	e72000	77500	86200	103100	107000	90800	73100	57800
4	65900	71000	74000	73200	e72300	77900	86400	103100	106900	90100	72600	57600
5	66200	71000	74200	73200	e72300	78300	86600	103100	106600	89500	72100	57200
6	66400	e71200	74300	73300	72300	78400	86700	103400	105900	89100	71500	57000
7	66600	71300	74300	73300	71900	78800	86900	104100	105600	88400	70900	56600
8	66900	71400	74400	e73100	72200	79000	86900	105100	105100	87600	70300	56300
9	67200	71500	74500	72900	72700	79300	86900	105700	104600	87200	70000	56000
10	67400	71700	75000	73000	72700	79300	87300	106300	104000	86700	69500	55700
11	67500	71800	74800	73500	73000	79300	87200	107200	103500	86300	69000	55300
12	67800	71900	74800	72900	e73800	79500	87400	108200	102900	85800	68600	54800
13	67900	72000	74900	72500	e74100	79900	87500	109300	102400	85200	68100	54600
14	68200	72100	75200	72200	e74300	80000	88200	109800	101600	84500	67700	54700
15	68400	e72200	75100	72300	e74300	80200	89000	110300	101100	83800	67200	54200
16	68700	72300	75200	71600	74500	80600	88900	110900	100700	83200	66700	53800
17	68900	72400	75500	71500	74000	81300	89200	111100	100200	82500	66200	53500
18	69100	72600	e75300	71300	74300	81700	89800	110800	99800	81900	65700	53100
19	69200	72600	e75200	e71200	e74500	82000	91100	110400	99100	81200	65100	52800
20	69300	72700	e75000	71000	e74600	83500	92800	110500	98700	80700	64700	52700
21	69500	72800	e74900	e70900	e74800	84100	94300	110400	98400	80000	64100	52400
22	69700	73000	74700	e70700	75200	84500	96000	110100	97800	79400	63700	52100
23	69800	73200	74300	e70600	e75200	85300	98000	110100	97300	78700	63300	51700
24	69900	73200	74500	70500	75200	85500	99500	109900	96600	78100	62800	51400
25	70000	e73200	e74600	70600	75300	85900	101000	109600	96100	77600	62100	51000
26	70100	e73300	74600	70600	75600	85900	102000	109000	95500	77000	61600	50700
27	70200	e73400	74200	70800	76000	86100	102700	109100	95000	76500	61300	50400
28	70400	e73500	74100	70800	76300	86000	103500	108800	94300	75900	60600	50000
29	70500	e73600	74400	70900	---	85900	103500	108500	93400	75400	60100	49700
30	70600	e73700	74000	71100	---	85900	103600	107800	92800	74800	59900	49700
31	70700	---	73500	e71600	---	85700	---	107900	---	74500	59500	---
(#)	4885.0	---	4886.2	4885.4	4887.4	4891.1	4897.7	4899.2	4893.8	4886.6	4879.9	4875.0
(*)	+4900	+3000	-200	-1900	+4700	+9400	+17900	+4300	-15100	-18300	-15000	-9800

CAL YR 1993 . . . . . (*) +66240
WTR YR 1994 . . . . . (*) -16100

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.
(e) Estimated.

10139300 WHEELER CREEK NEAR HUNTSVILLE, UT

LOCATION (REVISED).--Lat 41°15'10", long 111°50'29", in NE¼SW¼SE¼ sec. 16, T. 6 N., R. 1 E., Weber County, Hydrologic Unit 16020102, on left bank 550 ft upstream from mouth, 200 ft upstream from culvert under State Highway 39, 3.8 mi west of Huntsville, and 7.2 mi east of Ogden.

DRAINAGE AREA.--11.1 mi².

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,800 ft above sea level, from topographic map. Prior to Feb. 25, 1992 at site 0.10 mi downstream at different datum.

REMARKS.--Records fair except for period Mar. 12 to Mar. 23 and estimated days, which are poor. Records do not include 987 acre-feet diverted above gage by Ogden City Water Department.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 533 ft³/s May 21, 1981, gage height, 3.95 ft from indirect measurement, maximum gage height, 5.76 ft, Feb. 18 or 19, 1986 (backwater from trash buildup on trees below gage). Flood of Feb. 18 or 19, 1986 probably exceeded that of May 21, 1981. No flow Dec. 5, 1962, July 25, 1977, many days in June and July 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 19	0930	*62	*3.03	Apr. 3	2230	45	2.79
Mar. 22	0245	56	2.94	May 13	2245	45	2.78

No flow many days during June and July.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.5	1.1	.79	.78	6.3	35	20	11	.02	.30	.67
2	.97	1.5	1.1	.78	.78	6.5	33	19	10	.03	.25	.73
3	.96	1.4	1.0	.76	.78	7.1	34	22	9.5	.03	.25	.74
4	.93	1.4	1.0	.79	.80	8.2	30	21	8.3	.04	.27	.69
5	1.0	1.6	e.90	2.1	.84	5.6	21	23	7.3	.03	.30	.65
6	1.0	1.5	e.92	.95	.80	5.9	17	27	6.5	.03	.25	.63
7	1.5	1.5	e.90	.83	.94	6.1	22	29	5.4	.02	.26	.51
8	1.4	1.5	1.0	.75	1.6	5.7	24	28	4.9	.03	.31	.49
9	1.1	1.3	1.1	.74	1.0	5.2	20	29	4.4	.02	.31	.49
10	.97	1.6	1.0	.69	.86	5.1	29	34	3.5	.01	.28	.45
11	.95	1.6	1.0	.67	.75	8.5	23	35	2.5	.01	.27	.65
12	1.1	1.5	e.84	.62	e.54	10	24	38	2.3	.02	.27	.68
13	1.2	1.5	e.73	.60	e.58	6.3	26	43	2.2	.02	.29	.72
14	1.5	1.6	e.74	.65	e.60	4.5	31	42	1.8	.02	.30	.71
15	1.6	1.7	e.78	.78	e.60	6.4	32	39	1.8	.02	.35	.64
16	1.5	1.7	e.82	.73	.69	12	29	39	2.0	.02	.30	.60
17	1.1	1.8	e.76	.75	.95	15	29	37	1.1	.02	.31	.60
18	.94	1.8	e.74	.81	4.1	16	30	33	.25	.02	.28	.57
19	1.2	1.4	e.75	.80	1.5	33	31	32	.43	.02	.31	.56
20	1.1	1.4	e.73	.80	1.1	18	32	27	.23	.02	.31	.56
21	1.1	1.4	e.74	.80	.94	17	32	20	.09	.02	.30	.57
22	1.0	2.0	e.74	.80	.94	36	33	19	.04	.02	.35	.64
23	.96	2.2	e.76	.82	.88	26	32	18	.00	.18	.37	.61
24	.95	1.5	e.78	.88	.89	20	28	17	.07	.61	.36	.55
25	.78	e.70	e.74	.81	3.7	19	26	16	.09	.56	.36	.54
26	.88	e1.0	e.77	.78	4.4	19	25	15	.06	.35	.36	.52
27	1.0	e1.1	e.80	.72	8.4	17	23	15	.03	.30	.69	.52
28	1.0	e1.2	.81	.69	6.4	18	23	15	.03	.34	.72	.56
29	1.1	1.3	.78	.72	---	18	22	13	.02	.30	.69	.70
30	1.3	1.2	.79	.78	---	20	20	13	.02	.30	.69	.54
31	1.4	---	.78	.72	---	24	---	12	---	.28	.72	---
TOTAL	34.49	44.40	26.40	24.91	47.14	425.4	816	790	85.86	3.71	11.38	18.09
MEAN	1.11	1.48	.85	.80	1.68	13.7	27.2	25.5	2.86	.12	.37	.60
MAX	1.6	2.2	1.1	2.1	8.4	36	35	43	11	.61	.72	.74
MIN	.78	.70	.73	.60	.54	4.5	17	12	.00	.01	.25	.45
AC-FT	68	88	52	49	94	844	1620	1570	170	7.4	23	36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1994, BY WATER YEAR (WY)

MEAN	1.72	2.16	1.90	2.21	4.12	10.2	26.2	34.7	25.7	6.14	2.24	1.51
MAX	6.60	11.0	14.4	13.7	65.8	44.1	61.9	84.4	92.3	22.6	8.68	3.61
(WY)	1983	1988	1965	1971	1986	1986	1984	1984	1975	1975	1983	1983
MIN	.50	.49	.38	.064	.11	.38	1.20	2.27	.41	.12	.26	.20
(WY)	1962	1962	1989	1989	1991	1977	1977	1992	1992	1994	1992	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1959 - 1994	
ANNUAL TOTAL	4879.05		2327.78			
ANNUAL MEAN	13.4		6.38		9.89	
HIGHEST ANNUAL MEAN					24.2	1986
LOWEST ANNUAL MEAN					1.70	1992
HIGHEST DAILY MEAN	92	May 15	43	May 13	480	Feb 18 1986
LOWEST DAILY MEAN	.14	Sep 10	.00	Jun 23	.00	Jul 25 1977
ANNUAL SEVEN-DAY MINIMUM	.30	Feb 2	.02	Jul 9	.02	Jul 9 1994
ANNUAL RUNOFF (AC-FT)	9680		4620		7170	
10 PERCENT EXCEEDS	49		25		32	
50 PERCENT EXCEEDS	1.2		.95		2.2	
90 PERCENT EXCEEDS	.39		.25		.50	

e Estimated

10140100 OGDEN RIVER BELOW PINEVIEW RESERVOIR NEAR HUNTSVILLE, UT

LOCATION.--Lat 41°15'16", long 111°51'18", in SE¼NE¼SE¼ 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 sea level, from topographic map.

REMARKS.--Records good. Flow extensively regulated by Pineview Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,390 ft³/s Dec. 18, 1991, gage height, 6.20 ft; minimum daily 4.0 ft³/s Jan. 10, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 446 ft³/s Apr. 28, gage height, 4.05 ft; minimum daily discharge, 5.4 ft³/s Feb. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	9.9	6.4	8.8	6.0	10	161	414	83	120	46	15
2	17	10	6.4	8.7	6.4	10	159	408	74	126	45	15
3	14	9.9	6.6	8.7	6.5	10	165	358	74	127	38	12
4	10	8.7	6.8	8.7	5.6	12	167	402	84	117	36	13
5	10	8.6	6.9	11	5.9	11	154	283	91	107	48	13
6	9.6	9.1	7.0	9.1	5.7	10	149	107	89	84	55	14
7	9.4	7.2	7.1	8.6	6.5	13	149	44	81	63	55	15
8	12	6.7	7.1	8.4	7.0	15	146	43	78	52	55	12
9	13	6.7	7.2	8.5	6.6	14	147	43	90	63	54	10
10	13	7.0	7.1	8.4	6.6	15	158	47	99	79	41	13
11	13	7.4	7.2	8.3	6.3	16	113	49	117	79	33	12
12	11	7.9	7.5	8.9	5.7	19	109	53	129	85	23	17
13	8.3	7.9	6.7	10	5.4	19	122	93	138	99	40	17
14	8.8	7.5	6.4	10	5.5	21	151	150	152	108	47	27
15	9.2	7.0	6.4	10	5.5	20	156	197	140	113	45	81
16	10	7.1	6.4	10	5.5	21	156	226	114	117	42	17
17	10	7.5	6.7	10	5.5	25	156	269	107	116	41	17
18	9.7	7.3	6.6	11	6.5	22	126	270	105	112	41	18
19	7.9	6.8	6.9	13	5.6	69	114	221	108	94	35	18
20	8.1	6.8	7.4	13	5.5	33	101	192	109	96	36	19
21	8.5	6.9	8.7	10	6.6	26	90	137	111	103	33	37
22	9.1	7.3	8.7	8.6	8.0	52	87	90	99	92	36	54
23	9.6	6.9	8.7	8.9	8.6	134	89	74	86	91	30	43
24	8.7	6.5	9.0	9.4	8.8	228	91	104	89	95	35	41
25	8.6	6.2	8.9	7.6	11	218	105	103	101	88	56	45
26	8.5	6.3	9.0	6.5	9.7	212	131	94	125	68	65	47
27	9.2	6.3	8.9	6.2	11	207	130	89	136	47	57	56
28	10	6.4	8.7	6.4	10	207	316	78	130	47	50	62
29	10	6.4	8.7	6.4	---	206	425	89	139	53	40	36
30	10	6.5	8.8	6.2	---	165	413	84	128	50	28	18
31	10	---	8.7	6.3	---	147	---	84	---	49	19	---
TOTAL	320.2	222.7	233.6	275.6	193.5	2187	4736	4895	3206	2740	1305	814
MEAN	10.3	7.42	7.54	8.89	6.91	70.5	158	158	107	88.4	42.1	27.1
MAX	17	10	9.0	13	11	228	425	414	152	127	65	81
MIN	7.9	6.2	6.4	6.2	5.4	10	87	43	74	47	19	10
AC-FT	635	442	463	547	384	4340	9390	9710	6360	5430	2590	1610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1994, BY WATER YEAR (WY)

MEAN	13.4	9.61	35.9	8.77	9.26	26.4	74.7	187	141	123	106	35.6
MAX	23.8	14.4	170	14.9	15.2	70.5	194	708	313	257	230	87.4
(WY)	1993	1989	1992	1989	1989	1994	1993	1993	1993	1991	1991	1993
MIN	8.44	7.38	6.45	6.01	6.30	7.47	10.5	23.5	32.8	22.8	29.9	15.2
(WY)	1992	1990	1991	1992	1991	1991	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1989 - 1994	
ANNUAL TOTAL	51897.9		21128.6			
ANNUAL MEAN	142		57.9		64.7	
HIGHEST ANNUAL MEAN					144	1993
LOWEST ANNUAL MEAN					29.2	1992
HIGHEST DAILY MEAN	1110	May 11	425	Apr 29	1110	May 11 1993
LOWEST DAILY MEAN	6.2	Nov 25	5.4	Feb 13	4.0	Jan 10 1992
ANNUAL SEVEN-DAY MINIMUM	6.4	Nov 25	5.6	Feb 11	4.2	Jan 10 1992
ANNUAL RUNOFF (AC-FT)	102900		41910		46910	
10 PERCENT EXCEEDS	318		147		186	
50 PERCENT EXCEEDS	25		19		15	
90 PERCENT EXCEEDS	7.3		6.6		6.8	

10141000 WEBER RIVER NEAR PLAIN CITY, UT

LOCATION.--Lat 41°16'42", long 112°05'28", in NW¼NW¼NE¼ 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 sea level. Prior to Aug. 29, 1949, nonrecording gage at same site and datum, and Aug. 30, 1949 to June 22, 1966, water-stage recorder on right bank 50 ft upstream at same datum. Prior to Oct. 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 (see stations 10129400, 10131500, 10132490, and 10134000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft³/s May 6, 1952, gage height, 19.01 ft; practically no flow during latter part of several summers since 1915.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,290 ft³/s Apr. 23, gage height, 17.62 ft; minimum daily, 38 ft³/s July 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	144	147	76	58	291	789	977	174	80	75	88
2	124	154	149	74	61	240	718	931	163	75	64	83
3	117	135	152	74	66	277	679	923	160	76	63	76
4	101	139	135	82	69	357	766	994	143	89	64	73
5	98	198	133	197	69	380	709	1050	122	103	53	78
6	138	176	131	174	74	408	655	1040	129	110	58	75
7	277	187	129	123	78	423	733	957	141	111	62	118
8	408	210	127	105	282	377	686	884	128	97	74	128
9	400	207	130	109	195	333	674	785	139	60	70	113
10	245	206	118	110	151	307	913	833	138	41	94	101
11	251	213	122	107	147	336	797	728	98	38	101	110
12	304	221	199	136	118	397	687	580	90	41	93	118
13	260	224	155	147	97	378	633	571	87	53	64	109
14	320	232	145	149	107	348	694	583	98	72	72	98
15	366	242	135	151	121	343	764	521	106	62	64	97
16	474	246	136	149	165	265	786	479	159	72	52	112
17	416	229	114	146	105	315	836	404	98	64	57	86
18	391	222	187	145	204	303	902	342	73	75	62	83
19	363	200	187	175	202	522	780	207	64	77	67	92
20	363	174	143	169	152	637	1050	147	68	66	102	85
21	302	198	71	129	141	447	1070	e90	77	67	109	94
22	279	216	70	63	141	552	1130	e60	65	62	78	94
23	324	255	77	96	123	702	1230	e45	56	59	75	91
24	324	184	68	89	106	855	1130	40	54	56	63	80
25	320	153	64	94	205	933	1000	113	54	54	68	81
26	305	123	65	81	483	954	990	167	57	63	77	73
27	141	125	76	59	435	915	912	172	53	84	79	75
28	94	136	81	56	368	876	921	175	58	59	89	91
29	101	141	79	62	---	868	1040	170	77	60	100	114
30	148	124	75	62	---	838	989	142	89	60	103	157
31	147	---	84	65	---	802	---	159	---	64	89	---
TOTAL	8023	5614	3684	3454	4523	15979	25663	15269	3018	2150	2341	2873
MEAN	259	187	119	111	162	515	855	493	101	69.4	75.5	95.8
MAX	474	255	199	197	483	954	1230	1050	174	111	109	157
MIN	94	123	64	56	58	240	633	40	53	38	52	73
AC-FT	15910	11140	7310	6850	8970	31690	50900	30290	5990	4260	4640	5700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1994, BY WATER YEAR (WY)

MEAN	320	305	341	369	420	713	1075	1337	804	139	102	210
MAX	968	748	1884	1691	2399	3502	3639	4111	4233	661	414	968
(WY)	1985	1983	1984	1984	1986	1986	1986	1984	1983	1975	1983	1983
MIN	27.4	45.2	41.8	35.4	40.8	44.5	59.7	44.7	36.9	28.0	32.7	57.9
(WY)	1989	1989	1989	1989	1989	1977	1988	1988	1988	1988	1988	1966

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1966 - 1994	
ANNUAL TOTAL	148185		92591			
ANNUAL MEAN	406		254		511	
HIGHEST ANNUAL MEAN					1427	1986
LOWEST ANNUAL MEAN					65.3	1988
HIGHEST DAILY MEAN	2950	May 7	1230	Apr 23	7060	Jun 3 1983
LOWEST DAILY MEAN	50	Jan 5	38	Jul 11	10	May 25 1966
ANNUAL SEVEN-DAY MINIMUM	57	Jan 1	52	Jul 9	19	Jul 3 1966
ANNUAL RUNOFF (AC-FT)	293900		183700		370300	
10 PERCENT EXCEEDS	1220		772		1410	
50 PERCENT EXCEEDS	153		135		186	
90 PERCENT EXCEEDS	74		63		59	

e Estimated

10145400 SALT CREEK BELOW NEPHI POWERPLANT DIVERSION, NEAR NEPHI, UTAH

LOCATION.--Lat 39°43'02", long 111°43'58", in $SE^1/_4SW^1/_4NW^1/_4$ 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 mi^2.

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

GAGE.--Water-stage recorder. Elevation of gage is 5750 ft above sea level, 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, 68 ft^3/s May 15, 1994, gage height, 5.96 ft; minimum daily, 2.0 ft^3/s Dec. 25-29, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 68 ft^3/s May 15, gage height, 5.96 ft; minimum daily discharge, 2.0 ft^3/s Dec. 25-29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	3.3	3.0	2.2	5.6	3.3	5.1	6.3	18	5.9	6.5	6.3
2	2.5	3.3	2.9	2.2	5.1	3.3	6.3	6.4	15	6.0	6.4	5.9
3	2.5	3.3	2.5	2.5	6.6	3.3	6.3	6.3	15	6.0	6.8	6.9
4	3.3	3.2	2.3	2.7	6.6	3.3	6.3	6.4	17	6.0	7.0	5.9
5	2.3	3.1	2.3	2.6	6.6	3.3	6.3	9.2	14	6.1	7.0	6.0
6	2.3	3.1	2.3	2.5	6.6	3.3	6.3	15	12	6.3	7.1	6.3
7	2.4	3.1	2.3	2.5	4.5	3.4	6.3	19	10	6.3	6.7	6.1
8	2.5	3.1	2.3	2.5	3.1	3.5	6.3	18	8.1	6.3	6.9	5.7
9	2.5	3.1	2.3	2.5	3.1	3.5	6.3	16	7.4	6.2	7.3	5.7
10	2.5	3.1	2.3	2.5	3.1	3.5	6.3	18	6.9	6.0	7.1	5.7
11	2.5	3.1	2.3	2.5	3.1	3.5	6.3	22	6.7	6.3	7.2	5.9
12	2.5	3.1	2.3	2.5	2.9	3.5	6.3	28	6.8	6.4	7.2	5.7
13	2.5	3.1	2.3	2.5	2.9	3.5	6.3	36	9.3	6.1	7.6	6.0
14	2.5	3.2	2.4	2.5	3.0	3.5	6.3	38	6.7	6.3	8.0	6.0
15	2.6	3.3	2.3	2.6	3.1	3.5	6.3	38	6.6	6.3	7.9	6.0
16	2.7	3.3	2.3	2.7	3.1	3.5	6.3	39	6.5	6.2	7.6	6.0
17	2.8	3.3	2.3	2.7	3.2	3.4	8.1	30	6.3	6.0	7.3	6.0
18	2.8	3.3	2.3	2.7	3.3	3.5	7.5	23	6.3	6.0	7.2	5.8
19	2.8	3.3	2.3	2.7	3.3	3.5	12	19	6.3	6.0	7.0	5.7
20	2.9	3.3	2.3	2.7	3.3	3.5	16	17	6.4	6.1	6.7	5.8
21	2.9	3.3	2.2	2.7	3.3	3.4	32	15	6.6	6.3	6.9	5.7
22	2.9	3.3	2.2	2.7	3.3	3.3	32	16	6.5	6.3	6.7	5.5
23	2.9	3.3	2.2	2.7	3.3	3.3	24	18	6.3	6.4	6.6	5.5
24	3.1	3.3	2.2	2.7	3.2	3.3	18	20	6.4	6.6	6.5	5.5
25	3.1	3.3	2.1	2.9	3.2	3.3	15	21	6.0	6.6	6.3	5.4
26	3.1	3.3	2.0	3.3	3.3	3.3	10	21	5.9	6.5	6.2	5.4
27	3.1	3.3	2.0	3.3	3.3	3.7	8.4	21	5.9	6.3	5.8	5.4
28	3.1	3.3	2.0	3.3	3.4	3.8	6.9	22	5.9	6.4	6.2	5.4
29	3.1	3.3	2.2	3.3	---	3.8	6.3	21	5.8	6.6	6.3	5.9
30	3.1	3.3	2.3	6.3	---	3.8	6.3	20	5.9	6.7	6.3	6.1
31	3.1	---	2.2	7.0	---	3.8	---	22	---	6.5	6.3	---
TOTAL	86.9	97.0	71.2	91.0	108.4	107.4	302.1	627.6	252.5	194.0	212.6	175.2
MEAN	2.80	3.23	2.30	2.94	3.87	3.46	10.1	20.2	8.42	6.26	6.86	5.84
MAX	4.0	3.3	3.0	7.0	6.6	3.8	32	39	18	6.7	8.0	6.9
MIN	2.3	3.1	2.0	2.2	2.9	3.3	5.1	6.3	5.8	5.9	5.8	5.4
AC-FT	172	192	141	180	215	213	599	1240	501	385	422	348

WTR YR 1994 TOTAL 2325.9 MEAN 6.37 MAX 39 MIN 2.0 AC-FT 4610

10146000 SALT CREEK AT NEPHI, UTAH

LOCATION.--Lat 39°42'47", long 111°48'13", in SE¼SW¼NE¼, 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 sea level. Dec. 2, 1950 to Nov. 7, 1952, at a site 0.5 mi downstream at datum 31.96 ft lower. Nov. 7, 1952 to Nov. 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.

AVERAGE DISCHARGE.--29 years, 27.0 ft³/s, 19,560 acre-ft/yr (water years 1952-80).

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, Dec. 11, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49 ft³/s May 15, gage height, 2.10 ft; minimum daily discharge, 2.9 ft³/s Dec. 26-28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	e4.5	3.9
2	---	---	---	---	---	---	---	---	---	---	e4.4	3.8
3	---	---	---	---	---	---	---	---	---	---	e4.5	3.8
4	---	---	---	---	---	---	---	---	---	---	e4.6	3.8
5	---	---	---	---	---	---	---	---	---	---	5.6	3.6
6	---	---	---	---	---	---	---	---	---	---	5.2	3.6
7	---	---	---	---	---	---	---	---	---	---	4.6	3.5
8	---	---	---	---	---	---	---	---	---	---	20	4.1
9	---	---	---	---	---	---	---	---	---	---	18	3.8
10	---	---	---	---	---	---	---	---	---	---	13	3.5
11	---	---	---	---	---	---	---	---	---	---	10	3.5
12	---	---	---	---	---	---	---	---	---	---	8.2	3.8
13	---	---	---	---	---	---	---	---	---	---	5.2	6.6
14	---	---	---	---	---	---	---	---	---	---	4.7	3.9
15	---	---	---	---	---	---	---	---	---	---	4.5	4.0
16	---	---	---	---	---	---	---	---	---	---	4.3	8.6
17	---	---	---	---	---	---	---	---	---	---	4.3	9.6
18	---	---	---	---	---	---	---	---	---	---	4.4	12
19	---	---	---	---	---	---	---	---	---	---	4.5	12
20	---	---	---	---	---	---	---	---	---	---	4.4	12
21	---	---	---	---	---	---	---	---	---	---	4.5	8.8
22	---	---	---	---	---	---	---	---	---	---	4.2	8.0
23	---	---	---	---	---	---	---	---	---	---	4.1	7.5
24	---	---	---	---	---	---	---	---	---	---	4.0	7.3
25	---	---	---	---	---	---	---	---	---	---	3.9	7.3
26	---	---	---	---	---	---	---	---	---	---	4.0	7.3
27	---	---	---	---	---	---	---	---	---	---	4.0	7.3
28	---	---	---	---	---	---	---	---	---	---	3.9	7.3
29	---	---	---	---	---	---	---	---	---	---	3.8	7.3
30	---	---	---	---	---	---	---	---	---	---	3.9	7.3
31	---	---	---	---	---	---	---	---	---	---	3.9	---
TOTAL	---	---	---	---	---	---	---	---	---	---	183.1	188.8
MEAN	---	---	---	---	---	---	---	---	---	---	5.91	6.29
MAX	---	---	---	---	---	---	---	---	---	---	20	12
MIN	---	---	---	---	---	---	---	---	---	---	3.8	3.5
AC-FT	---	---	---	---	---	---	---	---	---	---	363	374

e Estimated

10146000 SALT CREEK AT NEPHI, UTAH

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	5.5	e5.3	e3.4	9.0	6.2	5.6	8.0	23	7.0	6.5	7.8
2	5.8	5.5	e5.0	e3.5	6.6	6.1	7.3	8.0	19	7.1	6.5	7.5
3	5.5	5.5	e4.9	e3.5	9.2	6.2	7.6	8.1	17	7.1	6.5	7.5
4	6.2	5.5	e4.5	e3.6	9.5	6.3	7.4	7.8	18	7.0	7.0	7.2
5	5.8	5.5	e4.0	e3.7	9.5	6.3	7.3	8.8	17	7.0	7.1	6.9
6	5.5	5.5	e4.0	e3.9	9.5	6.2	7.3	13	15	7.2	7.3	7.0
7	5.6	5.7	e4.0	e3.9	9.0	6.0	7.9	18	13	7.3	7.3	7.0
8	5.6	5.7	e3.9	e3.9	7.0	5.9	7.6	19	11	7.3	7.3	7.2
9	5.3	5.7	e3.8	e3.9	6.1	5.7	7.3	18	9.4	7.2	8.0	7.2
10	4.9	5.7	e3.8	e3.9	5.8	5.8	7.4	18	8.6	7.1	8.3	7.1
11	5.5	5.7	e3.8	e3.9	6.1	6.0	7.1	21	8.2	7.3	8.6	7.2
12	5.3	5.9	e3.8	e3.9	5.2	6.0	7.0	25	8.1	7.2	8.7	7.1
13	4.9	5.7	e3.8	e3.9	5.2	5.9	7.0	35	9.4	6.9	8.7	7.2
14	5.0	6.0	e4.0	e3.9	5.5	6.0	6.7	41	8.2	7.0	10	7.6
15	4.9	5.7	e3.8	e4.2	5.5	5.9	7.0	41	7.8	6.9	10	7.6
16	4.9	5.7	e3.6	e4.1	5.5	6.1	7.0	45	7.6	6.8	9.6	7.6
17	5.6	5.8	e3.5	e4.1	6.7	6.0	7.4	37	7.6	6.7	9.4	7.6
18	5.4	5.7	e3.4	e4.1	8.2	6.0	8.0	29	7.6	6.7	9.2	7.6
19	4.9	5.4	e3.4	e4.1	6.4	6.0	8.9	25	7.6	6.7	9.3	7.6
20	4.7	e5.4	e3.4	e4.1	5.7	5.8	13	20	7.6	6.7	9.0	7.6
21	4.7	e5.4	e3.3	e4.2	5.7	5.5	21	18	7.9	6.6	9.0	7.5
22	4.7	e5.6	e3.2	e4.3	5.5	5.4	36	17	8.0	6.7	8.9	7.1
23	4.7	e5.6	e3.2	e4.4	5.2	5.5	29	19	7.5	6.8	8.7	6.9
24	4.7	e5.4	e3.1	e4.8	5.8	5.5	25	21	7.2	7.0	8.8	7.0
25	4.7	e5.4	e3.0	4.9	6.1	5.5	20	22	7.2	7.1	8.6	6.8
26	4.9	e5.5	e2.9	5.4	6.1	5.2	15	23	7.1	6.8	8.5	6.6
27	5.2	e5.6	e2.9	5.5	6.5	5.4	12	23	7.0	6.5	8.0	6.6
28	5.2	e5.6	e2.9	5.5	6.5	5.4	10	23	7.0	6.3	7.6	6.6
29	5.2	e5.6	e3.0	5.4	---	5.2	8.5	23	7.1	6.3	7.9	8.8
30	5.4	e5.6	e3.1	6.8	---	5.2	8.0	23	6.9	6.5	8.0	8.3
31	5.5	---	e3.2	9.1	---	5.3	---	23	---	6.7	8.0	---
TOTAL	163.3	168.1	113.5	137.8	188.6	179.5	336.3	680.7	303.6	213.5	256.3	219.3
MEAN	5.27	5.60	3.66	4.45	6.74	5.79	11.2	22.0	10.1	6.89	8.27	7.31
MAX	7.1	6.0	5.3	9.1	9.5	6.3	36	45	23	7.3	10	8.8
MIN	4.7	5.4	2.9	3.4	5.2	5.2	5.6	7.8	6.9	6.3	6.5	6.6
AC-FT	324	333	225	273	374	356	667	1350	602	423	508	435

WTR YR 1994 TOTAL 2960.5 MEAN 8.11 MAX 45 MIN 2.9 AC-FT 5870

e Estimated

10146400 CURRANT CREEK NEAR MONA, UT

LOCATION.--Lat 39°48'09", long 111°51'44", in NE¼SW¼NW¼, 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 Burriston ponds, 0.5 mi upstream from Mona Reservoir, 1 mi southwest of Mona.

DRAINAGE AREA.--225 mi².

PERIOD OF RECORD.--June 1978 to current year.

REVISED RECORDS.--WDR UT-84-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,890 ft above sea level, from topographic map. Prior to June 10, 1985, at same site, different datum. Prior to October 1, 1992, at same site, different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 595 ft³/s May 14, 1984, gage height, 6.30 ft; maximum gage height, 6.77 ft, May 31, 1983, site and datum then in use; minimum, 1.5 ft³/s Nov. 4, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 89 ft³/s Feb. 9, gage height, 5.63 ft; minimum daily discharge, 2.7 ft³/s Aug. 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	7.9	9.0	9.5	10	22	12	16	7.6	6.6	5.8	5.2
2	6.8	7.9	9.0	9.3	10	19	13	14	7.4	7.4	5.4	5.2
3	6.8	7.9	8.8	9.5	10	18	13	16	7.5	7.0	5.0	5.6
4	7.0	7.9	8.8	10	11	17	15	15	7.0	7.0	6.1	5.9
5	7.0	7.9	8.8	11	11	17	16	12	7.7	6.4	8.1	6.1
6	7.1	8.0	8.9	11	12	16	15	11	7.2	6.1	5.8	5.6
7	7.3	8.3	8.8	9.9	15	15	18	10	7.7	6.1	5.3	5.6
8	7.3	8.1	9.1	9.8	36	15	21	10	7.5	5.9	5.1	5.6
9	7.1	8.1	9.4	10	50	14	21	9.6	6.5	6.3	4.7	5.6
10	6.8	8.5	9.4	9.8	38	14	26	9.6	5.8	6.1	2.7	5.8
11	6.4	8.6	9.2	9.7	24	16	22	9.1	9.3	6.1	3.8	5.7
12	7.1	9.1	10	9.9	19	16	17	8.7	7.6	5.9	4.9	5.9
13	6.7	9.1	9.2	10	17	14	15	8.8	7.0	5.7	5.7	5.9
14	7.5	8.7	9.1	10	17	14	14	8.5	6.8	6.1	5.2	6.0
15	11	8.5	9.4	11	19	13	14	8.1	6.9	5.9	8.2	6.1
16	10	8.5	9.3	11	26	14	13	8.0	6.8	5.9	6.3	6.1
17	8.8	8.5	9.1	10	37	13	13	8.3	6.8	5.9	3.1	6.1
18	9.2	8.5	8.8	11	60	13	13	8.2	5.7	5.8	3.9	6.1
19	8.2	8.4	8.7	11	33	13	13	8.1	3.9	5.7	5.0	6.1
20	7.8	8.2	8.7	11	24	14	13	7.9	e6.0	5.6	6.3	6.4
21	7.8	8.5	8.6	11	25	13	13	8.0	7.8	5.6	6.3	6.4
22	7.8	9.2	8.6	11	22	13	13	7.9	6.2	5.8	5.6	6.2
23	7.6	9.3	8.7	11	20	13	12	7.8	6.6	5.7	5.0	6.2
24	7.4	8.7	8.6	12	22	13	12	7.9	6.5	5.7	4.9	6.2
25	7.5	8.4	8.5	12	28	14	12	7.7	7.0	5.6	5.0	5.7
26	7.6	8.4	8.5	13	22	13	13	7.6	6.6	5.2	5.1	4.6
27	7.6	8.4	8.9	13	24	12	25	7.9	6.1	3.7	5.2	6.9
28	7.8	8.6	9.3	13	33	12	26	8.0	5.5	5.4	5.2	6.3
29	7.9	8.9	9.6	12	---	12	25	7.2	5.6	6.1	4.8	6.7
30	7.6	8.9	9.3	12	---	12	19	6.8	6.0	6.9	4.9	6.8
31	7.9	---	9.4	11	---	12	---	7.6	---	6.2	5.0	---
TOTAL	237.0	253.9	279.5	335.4	675	446	487	291.3	202.6	185.4	163.4	178.6
MEAN	7.65	8.46	9.02	10.8	24.1	14.4	16.2	9.40	6.75	5.98	5.27	5.95
MAX	11	9.3	10	13	60	22	26	16	9.3	7.4	8.2	6.9
MIN	6.4	7.9	8.5	9.3	10	12	12	6.8	3.9	3.7	2.7	4.6
AC-FT	470	504	554	665	1340	885	966	578	402	368	324	354

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1994, BY WATER YEAR (WY)

MEAN	22.3	28.1	29.0	29.5	42.9	57.0	57.3	61.9	34.8	14.2	12.4	14.7
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	6.26	5.22	6.64	9.01	15.1	14.3	9.25	6.16	4.92	4.24	2.98	3.60
(WY)	1993	1993	1993	1993	1992	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1979 - 1994	
ANNUAL TOTAL	4427.1		3735.1			
ANNUAL MEAN	12.1		10.2		33.6	
HIGHEST ANNUAL MEAN					101	1984
LOWEST ANNUAL MEAN					7.87	1992
HIGHEST DAILY MEAN	95	Mar 11	60	Feb 18	566	May 14 1984
LOWEST DAILY MEAN	5.9	Jul 16	2.7	Aug 10	1.5	Nov 4 1992
ANNUAL SEVEN-DAY MINIMUM	6.1	Sep 8	4.6	Aug 8	1.8	Nov 4 1992
ANNUAL RUNOFF (AC-FT)	8780		7410		24340	
10 PERCENT EXCEEDS	21		16		78	
50 PERCENT EXCEEDS	8.5		8.5		16	
90 PERCENT EXCEEDS	6.6		5.6		6.5	

e Estimated

10148200 TIE FORK NEAR SOLDIER SUMMIT, UT

LOCATION.--39°57'00", long 111°12'58", in NE1/4NE1/4SW1/4 sec. 14, T. 10 S., R. 6 E., Utah County, Hydrologic Unit 16020202, on right bank 230 ft upstream from mouth and U.S. Highway 6-50, 250 ft downstream from Denver & Rio Grande Western Railroad, 7.4 mi west of Soldier Summit, and 15.2 mi east of Thistle.

DRAINAGE AREA.--19.4 mi^2.

PERIOD OF RECORD.--October 1963 to current year.

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

GAGE.--Water-stage recorder and artificial control. Elevation of gage is 6,120 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,200 ft^3/s Aug. 21, 1983, result of instantaneous removal of upstream blockage, gage height, about 7.85 ft from high-water mark, from rating curve extended above 26 ft^3/s on basis of slope-area measurement; minimum, 0.15 ft^3/s Aug. 19, 20, 1983, result of temporary blockage upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 11, 18	--	*4.2	*1.47				

Minimum daily, 1.50 ft^3/s Sept. 10, 24-28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	3.2	2.4	2.2	e1.8	2.1	2.3	2.9	2.7	1.9	1.8	1.6
2	3.6	3.2	2.4	2.2	e1.9	2.2	2.3	2.8	2.6	2.0	1.8	1.6
3	3.5	3.2	2.4	2.2	e1.9	2.3	2.3	3.0	2.6	2.0	1.8	1.6
4	3.5	3.2	2.5	2.2	e2.0	2.3	2.3	2.8	2.6	2.0	1.7	1.6
5	3.5	3.1	2.4	2.2	2.1	2.3	2.3	2.8	2.5	2.0	1.7	1.6
6	3.5	2.9	2.4	2.2	2.0	2.3	2.3	2.8	2.5	2.0	1.7	1.6
7	3.6	2.9	2.5	2.2	1.9	2.3	2.4	2.8	2.6	2.0	1.7	1.6
8	3.7	2.9	2.4	2.2	1.9	2.3	2.3	2.8	2.6	1.9	1.8	1.6
9	3.7	2.9	2.4	2.2	1.9	2.2	2.4	2.9	2.4	1.9	2.1	1.6
10	3.7	3.1	2.4	2.2	1.9	2.2	2.4	2.9	2.3	1.8	1.9	1.5
11	3.8	2.9	2.4	2.0	2.0	2.2	2.4	2.9	2.3	1.8	1.9	1.6
12	3.8	3.0	2.5	2.2	1.9	2.3	2.4	2.9	2.3	1.8	1.8	1.6
13	3.7	2.9	2.2	2.1	1.8	2.3	2.3	3.0	2.2	1.9	1.7	1.6
14	3.7	2.8	2.2	2.1	2.1	2.3	2.4	3.0	2.2	1.9	1.8	1.6
15	3.8	2.7	2.4	2.1	2.0	2.3	2.5	2.9	2.2	1.8	1.7	1.6
16	3.7	2.7	2.4	2.1	1.8	2.3	2.4	3.0	2.2	1.7	1.7	1.6
17	3.9	2.8	2.3	1.9	1.8	2.3	2.5	3.0	2.2	1.7	1.7	1.6
18	3.9	2.9	1.9	2.0	1.9	2.3	2.6	3.0	2.2	1.7	1.7	1.6
19	3.7	2.3	2.1	2.0	1.9	2.3	2.6	3.1	2.3	1.7	1.8	1.6
20	3.6	2.2	e2.2	2.0	1.8	2.4	2.6	3.0	2.3	1.7	1.9	1.7
21	3.5	2.5	e2.3	2.0	1.9	2.3	2.6	2.9	2.2	1.8	1.8	1.7
22	3.5	2.7	2.2	2.1	1.9	2.3	2.6	2.9	2.2	1.9	1.7	1.6
23	3.5	2.7	2.5	2.1	2.0	2.2	2.6	2.9	2.1	1.9	1.7	1.6
24	3.5	2.6	2.4	2.1	2.0	2.3	2.8	2.9	2.1	1.8	1.7	1.5
25	3.4	2.2	2.5	2.1	2.3	2.3	2.8	2.9	2.1	1.8	1.7	1.5
26	3.4	2.3	2.5	2.1	2.2	2.4	2.8	2.8	2.1	1.8	1.6	1.5
27	3.4	2.0	2.3	2.1	2.1	2.3	2.9	2.6	2.1	1.8	1.7	1.5
28	3.4	2.7	2.3	2.0	2.1	2.2	3.0	2.7	2.1	1.8	1.7	1.5
29	3.4	2.7	2.2	1.8	---	2.3	2.9	2.6	2.0	1.9	1.7	1.7
30	3.4	2.5	2.2	e1.8	---	2.2	2.9	2.6	2.0	1.9	1.7	1.8
31	3.3	---	2.3	e1.7	---	2.3	---	2.8	---	1.9	1.6	---
TOTAL	111.2	82.7	72.5	64.4	54.8	70.6	75.9	88.9	68.8	57.5	54.3	47.9
MEAN	3.59	2.76	2.34	2.08	1.96	2.28	2.53	2.87	2.29	1.85	1.75	1.60
MAX	3.9	3.2	2.5	2.2	2.3	2.4	3.0	3.1	2.7	2.0	2.1	1.8
MIN	3.3	2.0	1.9	1.7	1.8	2.1	2.3	2.6	2.0	1.7	1.6	1.5
AC-FT	221	164	144	128	109	140	151	176	136	114	108	95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1994, BY WATER YEAR (WY)

MEAN	3.33	3.04	2.69	2.55	2.70	3.70	7.59	14.9	10.6	6.87	4.84	3.72
MAX	6.32	5.19	4.64	4.09	4.47	10.4	27.5	53.7	43.3	21.3	11.8	7.99
(WY)	1984	1985	1984	1984	1984	1986	1985	1984	1983	1983	1983	1984
MIN	.73	.96	.93	.71	1.20	1.70	1.83	1.80	1.57	1.23	.72	.70
(WY)	1978	1978	1993	1993	1993	1991	1992	1992	1977	1992	1992	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1964 - 1994	
ANNUAL TOTAL	2178.63		849.5			
ANNUAL MEAN	5.97		2.33		5.56	
HIGHEST ANNUAL MEAN					14.1	1984
LOWEST ANNUAL MEAN					1.66	1992
HIGHEST DAILY MEAN	28	May 18	3.9	Oct 17	84	May 31 1983
LOWEST DAILY MEAN	.57	Jan 23	1.5	Sep 10	.20	Aug 20 1983
ANNUAL SEVEN-DAY MINIMUM	.63	Jan 18	1.5	Sep 22	.63	Jan 18 1993
ANNUAL RUNOFF (AC-FT)	4320		1680		4030	
10 PERCENT EXCEEDS	13		3.1		11	
50 PERCENT EXCEEDS	3.8		2.2		3.5	
90 PERCENT EXCEEDS	.94		1.7		1.9	

e Estimated

10149500 DIAMOND FORK BELOW RED HOLLOW, NEAR THISTLE, UT

LOCATION.--Lat 40°04'43", long 111°24'32", in SE¼NW¼NW¼ sec. 32, T. 8 S., R. 5 E., Utah County, on right bank 0.5 mi downstream from Red Hollow, 7.0 mi upstream from mouth, and 8 mi northeast of Thistle.

DRAINAGE AREA.--107 mi².

PERIOD OF RECORD.--October 1953 to June 1969, December 1988 to current year. Records for October and November, 1988 provided by Bureau of Reclamation.

GAGE.--Water-stage recorder. Elevation of gage is 5,260 ft above sea level, from topographic map. Prior to Dec. 8, 1988 at site approximately 0.2 mi upstream at different datum.

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, 1,020 ft³/s July 13, 1954, gage height, 4.71 ft; minimum, 1.5 ft³/s Dec. 5, 1959, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 513 ft³/s June 24, 25, gage height 3.06 ft; minimum daily discharge 14 ft³/s Jan. 31, Feb. 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	25	e24	e22	e14	33	32	29	258	431	326	204
2	61	25	25	e23	e14	34	22	29	263	417	315	203
3	30	25	27	e23	e15	35	22	31	293	417	314	203
4	19	25	25	e23	e16	36	23	30	306	410	311	195
5	18	26	24	e23	e17	36	21	31	324	423	346	193
6	19	25	24	e22	e19	36	20	33	331	407	346	180
7	19	26	24	e21	e20	36	21	37	373	402	343	179
8	22	27	26	e20	e19	35	20	51	381	368	339	206
9	20	27	26	e22	e20	34	21	104	379	321	342	213
10	20	26	25	e23	e22	34	22	97	367	309	319	206
11	21	25	25	e20	e21	35	21	115	354	303	288	189
12	22	26	e23	e22	e19	36	20	131	348	298	243	188
13	20	26	e23	e23	e17	36	21	161	346	330	253	173
14	20	25	e23	e23	e19	37	21	162	367	311	217	184
15	19	24	e24	e23	e21	38	22	127	363	317	194	193
16	19	25	e25	e23	e23	38	22	136	372	314	178	166
17	21	25	e25	e23	e25	39	24	153	366	343	205	173
18	23	25	e23	e23	e25	39	25	188	405	376	229	162
19	20	26	e21	e21	e23	39	26	206	444	404	257	154
20	19	31	e24	e20	e21	39	27	238	471	427	195	163
21	18	31	e20	e19	e23	37	28	228	484	408	143	153
22	23	27	e18	e19	e21	38	30	237	487	411	135	146
23	26	26	e21	e20	e22	37	32	236	487	407	116	132
24	26	24	e23	e21	e26	36	33	253	488	380	189	154
25	25	e22	e20	e22	32	35	36	283	493	369	222	147
26	26	e20	e22	e22	33	35	34	282	493	388	273	145
27	26	e17	e24	e22	35	33	33	277	481	392	263	171
28	26	e19	e24	e21	32	33	32	269	484	402	229	210
29	25	e21	e22	e18	---	34	31	262	455	381	209	216
30	25	e23	e21	e15	---	33	30	244	443	328	197	189
31	25	---	e20	e14	---	33	---	295	---	357	216	---
TOTAL	815	745	721	656	614	1109	772	4955	11906	11551	7752	5390
MEAN	26.3	24.8	23.3	21.2	21.9	35.8	25.7	160	397	373	250	180
MAX	112	31	27	23	35	39	36	295	493	431	346	216
MIN	18	17	18	14	14	33	20	29	258	298	116	132
AC-FT	1620	1480	1430	1300	1220	2200	1530	9830	23620	22910	15380	10690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1994, BY WATER YEAR (WY)

MEAN	25.6	48.5	82.1	90.4	90.6	92.8	127	196	326	372	318	179
MAX	49.5	97.7	122	122	122	123	226	278	415	414	389	303
(WY)	1989	1990	1993	1993	1993	1992	1992	1992	1989	1991	1993	1992
MIN	13.5	14.7	23.3	21.2	21.9	35.8	25.7	54.4	203	297	250	117
(WY)	1992	1989	1994	1994	1994	1994	1994	1991	1993	1992	1994	1991

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1989 - 1994	
ANNUAL TOTAL	60822		46986			
ANNUAL MEAN	167		129		163	
HIGHEST ANNUAL MEAN					194	1992
LOWEST ANNUAL MEAN					129	1994
HIGHEST DAILY MEAN	485	Jul 2	493	Jun 25	493	Jun 25 1994
LOWEST DAILY MEAN	17	Nov 27	14	Jan 31	10	Dec 17 1988
ANNUAL SEVEN-DAY MINIMUM	20	Oct 4	15	Jan 30	11	Dec 3 1988
ANNUAL RUNOFF (AC-FT)	120600		93200		117900	
10 PERCENT EXCEEDS	384		368		393	
50 PERCENT EXCEEDS	122		33		110	
90 PERCENT EXCEEDS	23		20		18	

e Estimated

10150500 SPANISH FORK AT CASTILLA, UT

LOCATION.--Lat 40°02'59", long 111°32'50", in SE¼NE¼NW¼ 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 sea level, 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 Apr. 14, 1920, nonrecording gage, Apr. 15, 1920, to Sept. 30, 1925, and Jan. 1, 1933, to Apr. 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 Apr. 14 to Sept. 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. 18, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 644 ft³/s June 24, gage height, 5.10 ft; minimum daily discharge, 54 ft³/s Nov. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	81	81	80	60	205	95	108	452	e510	451	282
2	119	78	81	82	64	184	84	108	449	e500	435	273
3	81	79	73	82	71	174	82	115	484	491	428	274
4	66	80	78	81	80	179	94	115	494	486	427	265
5	65	79	80	86	87	168	88	121	519	e500	462	263
6	67	77	79	84	87	150	84	134	535	e490	455	245
7	68	78	75	73	86	145	89	149	562	488	452	241
8	71	78	83	66	101	128	85	160	563	472	451	277
9	70	79	82	83	90	111	88	237	562	414	469	296
10	66	83	82	85	85	105	97	257	554	398	451	285
11	70	82	84	73	87	104	90	280	548	383	408	262
12	79	83	87	81	72	111	86	307	547	377	344	260
13	72	82	69	81	68	105	87	356	549	410	346	243
14	72	81	74	80	83	101	91	371	542	402	312	249
15	71	80	85	80	83	101	95	338	541	406	279	264
16	70	79	85	80	88	102	96	334	537	406	249	232
17	75	81	78	76	87	105	96	338	532	436	279	229
18	87	81	65	77	103	103	106	365	530	467	316	219
19	79	73	69	76	94	103	106	384	531	482	360	208
20	75	72	67	77	77	112	111	436	526	515	293	215
21	73	77	56	79	88	100	120	421	536	522	201	213
22	78	89	62	81	80	104	123	420	530	533	157	199
23	83	89	72	82	79	101	134	414	524	524	129	182
24	84	79	67	86	89	96	130	428	544	506	193	199
25	83	69	68	85	100	97	129	473	515	512	247	198
26	81	54	75	83	120	95	125	492	508	524	322	195
27	81	57	83	83	152	92	122	499	512	527	348	224
28	82	72	86	81	194	91	119	480	515	534	320	284
29	81	85	84	78	---	92	120	457	522	519	285	305
30	80	83	75	79	---	91	113	430	e518	456	263	276
31	80	---	82	68	---	95	---	485	---	479	287	---
TOTAL	2475	2340	2367	2468	2555	3650	3085	10012	15781	14669	10419	7357
MEAN	79.8	78.0	76.4	79.6	91.2	118	103	323	526	473	336	245
MAX	166	89	87	86	194	205	134	499	563	534	469	305
MIN	65	54	56	66	60	91	82	108	449	377	129	182
AC-FT	4910	4640	4690	4900	5070	7240	6120	19860	31300	29100	20670	14590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1994, BY WATER YEAR (WY)

MEAN	110	85.9	79.1	79.8	92.9	131	268	542	461	398	324	200
MAX	654	480	209	165	264	334	1054	2077	1593	565	525	385
(WY)	1984	1984	1984	1990	1986	1986	1952	1984	1983	1922	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 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1920 - 1994	
ANNUAL TOTAL	109215		77178			
ANNUAL MEAN	299		211		233	
HIGHEST ANNUAL MEAN					569	1984
LOWEST ANNUAL MEAN					86.2	1934
HIGHEST DAILY MEAN	1170	May 21	563	Jun 8	3700	May 15 1984
LOWEST DAILY MEAN	54	Nov 26	54	Nov 26	20	Dec 9 1951
ANNUAL SEVEN-DAY MINIMUM	65	Dec 18	65	Dec 18	27	Oct 25 1934
ANNUAL RUNOFF (AC-FT)	216600		153100		168500	
10 PERCENT EXCEEDS	546		507		506	
50 PERCENT EXCEEDS	224		105		146	
90 PERCENT EXCEEDS	77		73		59	

e Estimated

10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UT

LOCATION.--Lat 40°35'48", long 111°05'48", in NE¼SW¼SE¼ sec. 36, T. 2 S., R. 7 E., Summit County, Hydrologic Unit 16020203, on right bank 500 ft upstream from bridge on State Highway 150, 1,500 ft upstream from mouth, and 9.5 mi southeast of Kamas.

DRAINAGE AREA.--24.4 mi².

PERIOD OF RECORD.--August 1963 to current year.

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

GAGE.--Water-stage recorder. Elevation of gage is 7,480 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Slight regulation from several small reservoirs at headwaters used for storing water for release during the summer and fall. No diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 728 ft³/s June 5, 1986, gage height, 2.98 ft; minimum recorded, 1.5 ft³/s Sept. 26-29, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 13	2200	*263	*2.07	No other peak greater than base discharge.			

Minimum discharge recorded, 1.5 ft³/s Sept. 26-29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	e5.4	e3.5	e3.1	e3.4	e4.6	9.8	41	103	25	6.6	3.1
2	3.2	e5.2	e3.7	e3.3	e3.2	e4.7	11	39	94	23	6.4	3.1
3	3.2	e4.6	e3.5	e3.9	e3.2	e4.6	17	40	88	20	5.3	3.1
4	3.2	e4.7	e3.8	e3.5	e3.4	e4.8	20	40	81	18	4.7	2.8
5	3.2	e4.5	e3.0	e4.5	e3.5	e5.2	20	53	75	17	4.2	2.6
6	4.7	e4.0	e3.1	e4.0	e4.4	e5.4	18	81	70	16	3.9	2.6
7	8.1	e4.0	e3.0	e3.7	e4.9	e5.4	16	110	65	15	3.8	2.8
8	9.4	e3.6	e3.9	e4.0	e4.4	e5.0	16	112	60	14	3.9	2.6
9	7.8	e3.6	e4.3	e3.9	e4.1	e4.7	16	121	56	14	9.1	2.3
10	7.2	e3.2	e4.6	e4.0	e4.5	e5.0	16	129	53	13	8.1	2.2
11	7.6	e3.1	e4.8	e4.2	e3.6	e5.6	17	154	49	12	6.6	2.1
12	9.8	e3.1	e4.7	e4.4	e3.0	e6.2	18	165	46	12	5.7	2.3
13	8.6	e3.0	e3.2	e4.6	e3.5	e5.6	22	200	43	11	6.1	2.9
14	9.6	e3.0	e3.1	e4.4	e3.8	e6.4	25	203	39	11	5.8	3.2
15	9.6	e3.1	e3.7	e4.2	e4.1	e7.4	28	184	44	11	4.7	3.3
16	9.2	e3.1	e3.8	e4.1	e4.7	e9.4	32	171	43	10	4.2	2.7
17	9.2	e3.1	e2.9	e4.0	e5.4	e8.5	37	129	41	7.9	3.9	2.3
18	10	e3.0	e2.8	e4.2	e4.7	e8.4	41	113	44	7.0	4.8	2.2
19	9.0	e2.9	e2.9	e4.0	e4.5	e8.0	45	115	47	6.7	11	2.2
20	8.3	e2.9	e2.9	e3.9	e4.5	e7.2	53	95	46	6.4	7.2	2.3
21	7.7	e3.0	e3.0	e3.8	e4.0	e8.8	63	92	45	6.1	7.5	2.3
22	7.5	e3.5	e3.0	e3.7	e3.3	e7.0	87	103	43	6.0	5.8	2.1
23	7.2	e3.3	e3.1	e4.0	e3.2	e6.4	100	123	41	6.0	5.0	1.9
24	6.8	e2.8	e3.2	e4.4	e4.0	e9.0	87	133	40	5.7	4.4	1.8
25	6.6	e2.6	e3.3	e4.7	e4.4	e9.8	72	131	37	5.2	4.0	1.7
26	6.3	e2.8	e3.5	e4.7	e4.6	e9.0	64	122	35	5.0	3.6	1.7
27	6.3	e3.2	e3.6	e4.5	e4.7	e9.2	56	107	34	4.9	3.6	1.7
28	5.6	e3.1	e3.4	e4.2	e4.5	e9.2	50	136	32	5.2	3.7	1.6
29	5.3	e3.2	e3.2	e4.0	---	9.1	45	129	30	4.7	3.5	2.8
30	e5.4	e3.3	e3.1	e4.0	---	9.0	42	126	27	4.8	3.3	4.7
31	e5.2	---	e3.0	e3.9	---	9.6	---	124	---	7.3	3.1	---
TOTAL	214.1	103.9	106.6	125.8	113.5	218.2	1143.8	3621	1551	330.9	163.5	75.0
MEAN	6.91	3.46	3.44	4.06	4.05	7.04	38.1	117	51.7	10.7	5.27	2.50
MAX	10	5.4	4.8	4.7	5.4	9.8	100	203	103	25	11	4.7
MIN	3.2	2.6	2.8	3.1	3.0	4.6	9.8	39	27	4.7	3.1	1.6
AC-FT	425	206	211	250	225	433	2270	7180	3080	656	324	149

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1994, BY WATER YEAR (WY)

MEAN	8.43	7.21	6.64	5.95	5.86	8.54	33.4	139	167	52.6	19.8	8.72
MAX	37.0	17.1	15.6	10.1	11.5	29.8	78.4	237	345	169	48.0	27.9
(WY)	1983	1983	1985	1986	1986	1986	1985	1993	1986	1975	1983	1983
MIN	2.91	2.87	2.74	2.45	2.00	2.00	6.85	31.6	27.3	7.88	3.47	2.50
(WY)	1993	1977	1977	1977	1977	1977	1975	1977	1992	1992	1992	1994

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1964 - 1994	
ANNUAL TOTAL	19905.2		7767.3			
ANNUAL MEAN	54.5		21.3		38.7	
HIGHEST ANNUAL MEAN					68.9	1986
LOWEST ANNUAL MEAN					11.4	1977
HIGHEST DAILY MEAN	500	May 26	203	May 14	539	Jun 2 1986
LOWEST DAILY MEAN	2.6	Nov 25	1.6	Sep 28	1.6	Sep 28 1994
ANNUAL SEVEN-DAY MINIMUM	2.9	Dec 17	1.8	Sep 22	1.8	Sep 22 1994
ANNUAL RUNOFF (AC-FT)	39480		15410		28040	
10 PERCENT EXCEEDS	218		67		119	
50 PERCENT EXCEEDS	7.9		5.2		9.0	
90 PERCENT EXCEEDS	3.2		3.0		4.1	

e Estimated

10154200 PROVO RIVER NEAR WOODLAND, UT

LOCATION.--Lat 40°33'28", long 111°10'05", in NE¼NW¼SE¼ 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 sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges and the period Oct. 1-Nov. 18, which are fair. 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 June 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; minimum, 16 ft³/s Nov. 6, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,470 ft³/s May 13, gage height, 5.06 ft; minimum, 16 ft³/s Nov. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	46	e47	e48	39	46	85	260	599	109	66	34
2	68	46	e49	e50	38	48	83	244	532	102	64	51
3	70	46	e48	e50	41	51	95	250	495	101	50	62
4	52	54	e52	e54	41	54	99	255	458	97	41	41
5	55	60	e54	e52	42	53	88	305	415	96	39	34
6	54	33	e52	e49	42	51	84	446	386	94	36	34
7	83	42	e48	e50	46	51	84	605	383	95	35	33
8	75	49	e50	50	46	51	78	612	341	96	35	32
9	93	40	e56	54	45	50	82	680	297	87	47	34
10	105	61	e58	51	48	50	83	753	274	88	50	33
11	111	43	e56	48	46	51	83	911	273	84	46	31
12	120	53	e57	48	43	51	91	1040	254	81	46	32
13	121	49	e50	48	48	53	102	1150	244	79	42	39
14	118	57	e44	48	50	58	115	1230	231	73	46	41
15	121	60	e47	47	48	62	121	1170	217	66	39	40
16	118	79	e48	47	47	68	153	1170	175	55	47	39
17	116	45	e47	44	46	72	206	916	165	53	56	38
18	123	e46	e46	45	47	69	247	748	163	53	59	36
19	118	e54	e48	44	48	73	278	762	168	53	82	36
20	113	e60	e45	45	44	72	332	674	172	62	67	37
21	109	e63	e43	45	48	68	392	615	171	62	64	36
22	109	e54	e42	46	45	75	496	663	166	62	61	37
23	108	e46	e42	46	45	67	565	715	159	70	59	37
24	106	e38	e44	46	48	66	506	770	152	74	44	37
25	104	e35	e47	46	47	67	435	784	149	71	37	37
26	102	e35	e48	46	48	63	390	743	142	65	37	37
27	97	e39	e47	46	48	64	342	668	139	64	36	36
28	100	e43	e48	43	46	63	315	837	130	62	37	35
29	100	e46	e47	37	---	67	292	784	127	51	34	38
30	53	e48	e48	42	---	68	271	743	114	53	36	48
31	41	---	e46	36	---	76	---	690	---	70	35	---
TOTAL	2938	1470	1504	1451	1270	1878	6593	22193	7691	2328	1473	1135
MEAN	94.8	49.0	48.5	46.8	45.4	60.6	220	716	256	75.1	47.5	37.8
MAX	123	79	58	54	50	76	565	1230	599	109	82	62
MIN	41	33	42	36	38	46	78	244	114	51	34	31
AC-FT	5830	2920	2980	2880	2520	3730	13080	44020	15260	4620	2920	2250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1994, BY WATER YEAR (WY)

MEAN	72.4	65.5	60.5	58.6	57.4	71.7	194	770	776	247	119	81.6
MAX	155	97.9	97.3	86.9	95.7	198	370	1253	1505	658	255	166
(WY)	1983	1983	1984	1984	1986	1986	1985	1993	1986	1965	1965	1982
MIN	41.3	42.3	38.4	36.6	40.1	41.5	69.4	128	113	46.6	26.6	29.0
(WY)	1989	1993	1977	1977	1977	1977	1975	1977	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1964 - 1994	
ANNUAL TOTAL	109487		51924			
ANNUAL MEAN	300		142		215	
HIGHEST ANNUAL MEAN					351	1986
LOWEST ANNUAL MEAN					71.3	1977
HIGHEST DAILY MEAN	2480	May 22	1230	May 14	2530	May 28 1979
LOWEST DAILY MEAN	33	Nov 6	31	Sep 11	24	Aug 26 1992
ANNUAL SEVEN-DAY MINIMUM	40	Nov 23	33	Sep 6	25	Aug 24 1992
ANNUAL RUNOFF (AC-FT)	217200		103000		155700	
10 PERCENT EXCEEDS	1040		391		615	
50 PERCENT EXCEEDS	112		55		79	
90 PERCENT EXCEEDS	45		38		46	

e Estimated

10154500 WEBER - PROVO DIVERSION CANAL NEAR WOODLAND, UT

LOCATION (REVISED).--Lat 40°36'50", long 111°18'15", in NE¼SW¼SE¼ sec. 30, T. 2 S., R. 6 E., Summit County, Hydrologic Unit 16020101, on left bank 100 ft upstream from entrance to flume above Provo River valley, and 4.6 mi northwest of Woodland.

PERIOD OF RECORD.--October 1931 to July 1969, during period of diversion only, October 1988 to current year. Subsequent to September 1990 irrigation season only.

GAGE.--Water-stage recorder. Elevation of gage is 6,410 ft above sea level, from topographic map.

REMARKS.--Records good, except for estimated daily discharges, which are fair. Canal diverts water from Weber River in NW¼SW¼SW¼ sec. 21, T. 1 S., R. 6 E., and from Beaver Creek in SW¼NE¼SE¼ sec. R. 6 E., to Provo River.

EXTREMES FOR PERIOD OF RECORD.--(Period of diversion only) Maximum daily discharge, 870 ft³/s June 4, 1957; no water diverted from Weber River or Beaver Creek for several months each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	22	41	160	78	1.0	---	---
2	---	---	---	---	---	33	37	141	84	.89	---	---
3	---	---	---	---	---	22	44	136	183	.79	---	---
4	---	---	---	---	---	20	55	116	208	.68	---	---
5	---	---	---	---	---	21	44	124	208	.65	---	---
6	---	---	---	---	---	21	40	191	211	.69	---	---
7	---	---	---	---	---	23	27	270	213	.77	---	---
8	---	---	---	---	---	21	25	294	208	.74	---	---
9	---	---	---	---	---	22	28	333	191	.72	---	---
10	---	---	---	---	---	21	28	356	144	.64	---	---
11	---	---	---	---	---	22	25	457	81	.56	---	---
12	---	---	---	---	---	24	44	554	79	.51	---	---
13	---	---	---	---	---	23	21	611	54	.51	---	---
14	---	---	---	---	---	23	42	717	49	.56	---	---
15	---	---	---	---	---	23	57	658	38	.53	---	---
16	---	---	---	---	---	31	73	685	35	.76	---	---
17	---	---	---	---	---	35	94	595	18	.71	---	---
18	---	---	---	---	---	41	131	463	15	.94	---	---
19	---	---	---	---	---	51	156	443	11	.99	---	---
20	---	---	---	---	---	53	194	370	5.0	.98	---	---
21	---	---	---	---	---	40	242	301	1.3	.93	---	---
22	---	---	---	---	---	48	321	321	.83	.75	---	---
23	---	---	---	---	---	42	347	403	.72	.66	---	---
24	---	---	---	---	---	37	349	476	.74	.60	---	---
25	---	---	---	---	---	39	e325	536	.72	---	---	---
26	---	---	---	---	---	36	e298	482	.72	---	---	---
27	---	---	---	---	---	36	e270	456	.68	---	---	---
28	---	---	---	---	---	35	e243	654	.64	---	---	---
29	---	---	---	---	---	42	e216	658	.85	---	---	---
30	---	---	---	---	---	41	169	344	1.1	---	---	---
31	---	---	---	---	---	46	---	66	---	---	---	---
TOTAL	---	---	---	---	---	994	3986	12371	2121.30	---	---	---
MEAN	---	---	---	---	---	32.1	133	399	70.7	---	---	---
MAX	---	---	---	---	---	53	349	717	213	---	---	---
MIN	---	---	---	---	---	20	21	66	.64	---	---	---
AC-FT	---	---	---	---	---	1970	7910	24540	4210	---	---	---

e Estimated

10155000 PROVO RIVER NEAR HAILSTONE, UT

LOCATION.--Lat 40°36'03", long 111°19'51", in $SW^1/_4NE^1/_4SW^1/_4$ 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. Prior to Apr. 8, 1993, at site 1.5 mi downstream.

DRAINAGE AREA.--219 mi^2.

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WDR UT-89-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,220 ft above sea level, from topographic map. Prior to Nov. 20, 1964 at datum 1.00 ft higher. Gage relocated 1.5 mi upstream on Apr. 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 poor. Records include flow of Weber-Provo diversion canal and Duchesne Tunnel, a transmountain 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 ft^3/s June 7, 1986, from rating curve extended above 2,500 ft^3/s; gage height, 9.91 ft from floodmarks at site and datum then in use; minimum, 11 ft^3/s Aug. 20, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,210 ft^3/s May 14, gage height 8.32 ft; minimum discharge, 15 ft^3/s July 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	81	e100	e96	e72	e90	153	378	635	68	32	25
2	90	68	e95	e100	e75	e90	141	343	557	60	32	29
3	78	86	e90	e98	e74	e95	158	341	610	55	31	42
4	68	96	e95	e94	e80	102	181	320	605	55	32	38
5	67	85	e100	e88	e80	106	152	367	565	51	30	29
6	74	80	95	e92	e80	104	140	551	520	46	28	26
7	98	e75	e110	e96	e85	102	132	829	523	49	28	27
8	118	e79	95	e96	e90	98	111	872	479	48	28	23
9	111	e83	94	e92	e88	95	126	988	413	45	42	21
10	99	87	95	e100	e88	96	138	1080	351	40	49	21
11	101	83	110	e108	e93	104	127	1390	274	39	46	21
12	116	79	115	e110	e87	115	161	1620	258	37	42	24
13	111	76	e100	e110	e84	118	138	1730	232	33	38	28
14	113	71	e105	e104	e94	129	168	2020	220	34	39	32
15	123	65	e110	e100	e96	134	185	1930	209	34	38	35
16	117	e70	115	e98	e93	156	220	1990	172	28	33	32
17	109	76	e100	e98	e91	174	287	1670	147	24	42	29
18	128	70	e90	e100	e90	164	368	1270	136	22	43	28
19	113	e78	e80	e110	e92	218	421	1210	134	19	73	28
20	e105	e85	e80	e105	e92	189	514	1010	133	19	58	29
21	e100	e93	e80	e98	e86	161	628	864	131	24	55	29
22	98	104	e86	e90	e94	181	819	908	128	21	52	30
23	98	109	e82	e88	e88	157	976	1050	115	24	48	29
24	96	e90	e82	e90	e88	142	888	1180	108	31	40	29
25	91	e75	e82	e110	e93	146	732	1280	101	31	31	28
26	88	e70	e80	e110	e92	136	626	1170	94	27	28	27
27	83	e78	e80	e100	e94	133	531	1060	89	25	29	25
28	83	e85	e82	e88	e94	127	515	1480	86	26	30	23
29	84	e90	e88	e80	---	137	466	1470	81	24	29	29
30	68	e95	e94	e72	---	132	405	1120	76	20	27	38
31	75	---	e100	e80	---	146	---	715	---	29	27	---
TOTAL	2987	2462	2910	3001	2453	4077	10607	34206	8182	1088	1180	854
MEAN	96.4	82.1	93.9	96.8	87.6	132	354	1103	273	35.1	38.1	28.5
MAX	128	109	115	110	96	218	976	2020	635	68	73	42
MIN	67	65	80	72	72	90	111	320	76	19	27	21
AC-FT	5920	4880	5770	5950	4870	8090	21040	67850	16230	2160	2340	1690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1994, BY WATER YEAR (WY)

MEAN	86.7	97.5	92.7	88.7	93.7	116	310	1039	942	252	97.2	79.9
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	43.7	59.0	55.4	54.7	55.5	65.4	113	131	102	25.3	20.9	27.2
(WY)	1955	1977	1977	1977	1977	1977	1961	1977	1992	1961	1992	1960

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1954 - 1994	
ANNUAL TOTAL	163871		74007			
ANNUAL MEAN	449		203		275	
HIGHEST ANNUAL MEAN					445	1962
LOWEST ANNUAL MEAN					80.2	1977
HIGHEST DAILY MEAN	3560	May 22	2020	May 14	3560	May 22 1993
LOWEST DAILY MEAN	51	Feb 14	19	Jul 19	12	Aug 21 1960
ANNUAL SEVEN-DAY MINIMUM	60	Feb 10	22	Jul 17	14	Jul 25 1961
ANNUAL RUNOFF (AC-FT)	325000		146800		199300	
10 PERCENT EXCEEDS	1770		553		803	
50 PERCENT EXCEEDS	111		93		105	
90 PERCENT EXCEEDS	68		29		56	

e Estimated

10155100 PROVO RIVER BELOW JORDANELLE DAM, NEAR HEBER, UT

LOCATION.--Lat 40°35'42", long 111°25'41", in NW¼NE¼NW¼ sec. 6, T. 3 S., R. 5 E., Wasatch County, Hydrologic Unit 16020203, on left bank 2,000 ft downstream from Jordanelle Dam and 5.5 mi north of Heber City.

DRAINAGE AREA.--252 mi².

PERIOD OF RECORD.--October 1991 to September 1994 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,860 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Records include flow of Weber-Provo diversion canal and Duchesne Tunnel, a transmountain 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, 2,920 ft³/s May 23, 1993, gage height, 3.62 ft; minimum, 23 ft³/s Oct. 16, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 1,460 ft³/s May 13, gage height 3.11 ft; minimum daily, 29 ft³/s Sept. 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	52	40	43	42	44	41	349	597	59	69	72
2	59	50	40	43	44	44	41	349	566	53	69	72
3	59	52	40	43	44	44	41	344	537	56	69	73
4	59	54	40	44	44	44	41	323	543	59	69	73
5	59	55	40	e44	42	44	41	301	533	59	69	72
6	58	55	40	e44	41	44	41	335	467	56	69	72
7	58	54	40	e43	41	45	41	400	417	55	69	61
8	58	55	40	e43	41	45	41	457	387	54	69	51
9	58	56	40	e43	41	45	41	463	346	55	69	49
10	58	54	40	e43	41	43	41	594	296	55	69	49
11	57	46	40	e43	41	44	41	694	250	53	69	49
12	57	42	40	e43	41	45	41	851	224	54	69	49
13	57	41	40	e43	42	45	42	1020	189	54	70	50
14	58	40	40	e43	43	44	42	1180	176	53	70	51
15	57	40	40	e43	43	44	51	1290	158	54	70	42
16	57	41	40	e42	43	45	71	1290	149	54	70	30
17	57	42	40	e42	43	45	82	1250	128	54	70	30
18	57	40	40	e42	43	44	118	1110	106	53	73	30
19	62	39	40	e41	43	44	182	915	100	67	74	29
20	81	39	40	42	43	44	199	785	102	77	74	29
21	87	39	40	43	43	44	306	785	102	76	74	30
22	61	39	40	43	43	44	394	788	101	75	74	35
23	61	38	40	43	43	44	446	796	100	74	74	39
24	60	40	42	43	43	44	465	876	96	74	74	39
25	61	40	41	44	43	44	436	1070	92	74	74	39
26	57	40	41	44	44	44	414	1090	86	74	74	39
27	54	40	41	44	44	44	366	906	81	73	74	40
28	54	40	42	43	44	44	347	938	78	72	74	41
29	53	40	42	42	---	44	349	1060	76	70	74	41
30	53	42	43	41	---	42	348	756	70	70	73	41
31	53	---	43	41	---	42	---	587	---	70	72	---
TOTAL	1840	1345	1255	1328	1193	1366	5150	23952	7153	1936	2210	1417
MEAN	59.4	44.8	40.5	42.8	42.6	44.1	172	773	238	62.5	71.3	47.2
MAX	87	56	43	44	44	45	465	1290	597	77	74	73
MIN	53	38	40	41	41	42	41	301	70	53	69	29
AC-FT	3650	2670	2490	2630	2370	2710	10220	47510	14190	3840	4380	2810

CAL YR 1993 TOTAL 120250 MEAN 329 MAX 2540 MIN 38 AC-FT 238500
WTR YR 1994 TOTAL 50145 MEAN 137 MAX 1290 MIN 29 AC-FT 99460

e Estimated

10155400 SPRING CREEK NEAR HEBER, UTAH

LOCATION.--Lat 40°30'31", long 111°26'19", in $SE^1/_4SW^1/_4SE^1/_4$ sec. 36, T. 3 S., R. 4 E., Wasatch county, Hydrologic Unit 16020203, on left bank 260 ft upstream from state highway 113, 5000 ft upstream from mouth, and .8 mi west of Heber.

DRAINAGE AREA.--

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

GAGE.--Water-stage recorder. Elevation of gage is 5500 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 198 ft^3/s Mar. 19, 1994, gage height 2.81 ft; minimum daily, 4.1 ft^3/s July 28, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 198 ft^3/s Mar. 19, gage height 2.81 ft; minimum daily, 4.1 ft^3/s July 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	36	73	57	22	14
2	---	---	---	---	---	---	---	37	71	54	25	16
3	---	---	---	---	---	---	---	39	68	60	24	15
4	---	---	---	---	---	---	---	97	60	66	24	17
5	---	---	---	---	---	---	---	66	69	62	26	16
6	---	---	---	---	---	---	---	81	63	54	23	16
7	---	---	---	---	---	---	---	100	66	61	22	15
8	---	---	---	---	---	---	---	65	57	53	30	14
9	---	---	---	---	---	---	---	55	51	32	28	15
10	---	---	---	---	---	---	---	47	51	30	27	12
11	---	---	---	---	---	---	---	45	53	20	29	11
12	---	---	---	---	---	---	---	51	50	19	26	11
13	---	---	---	---	---	---	---	51	50	20	27	17
14	---	---	---	---	---	---	---	46	50	11	22	16
15	---	---	---	---	---	---	---	49	53	7.6	22	13
16	---	---	---	---	---	---	---	52	56	9.5	19	14
17	---	---	---	---	---	---	---	55	82	12	20	17
18	---	---	---	---	---	---	---	55	84	14	21	19
19	---	---	---	---	---	---	---	55	69	16	21	16
20	---	---	---	---	---	---	---	64	60	16	23	15
21	---	---	---	---	---	---	---	71	58	17	27	13
22	---	---	---	---	---	---	---	95	59	18	22	16
23	---	---	---	---	---	---	---	84	52	41	20	16
24	---	---	---	---	---	---	---	84	52	45	21	16
25	---	---	---	---	---	---	---	78	48	31	16	16
26	---	---	---	---	---	---	---	82	52	43	18	15
27	---	---	---	---	---	---	---	75	56	30	20	15
28	---	---	---	---	---	---	---	76	48	26	18	14
29	---	---	---	---	---	---	---	72	48	25	16	13
30	---	---	---	---	---	---	---	63	56	24	19	13
31	---	---	---	---	---	---	---	67	---	22	18	---
TOTAL	---	---	---	---	---	---	---	1993	1765	996.1	696	446
MEAN	---	---	---	---	---	---	---	64.3	58.8	32.1	22.5	14.9
MAX	---	---	---	---	---	---	---	100	84	66	30	19
MIN	---	---	---	---	---	---	---	36	48	7.6	16	11
AC-FT	---	---	---	---	---	---	---	3950	3500	1980	1380	885

10155400 SPRING CREEK NEAR HEBER, UTAH--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	16	12	e11	e36	13	31	54	16	7.0	15
2	15	15	16	12	e10	e42	13	30	47	14	6.0	18
3	15	16	14	12	e9.0	39	13	29	47	13	9.4	14
4	14	16	14	13	e9.0	31	14	29	45	11	9.5	14
5	15	15	14	18	e9.0	25	13	29	45	10	11	15
6	16	15	14	14	10	23	13	34	42	9.7	8.7	16
7	19	15	13	e13	16	22	14	33	39	9.1	9.0	17
8	19	15	14	e13	33	20	12	37	42	9.0	7.3	12
9	18	15	19	14	15	18	8.3	39	39	8.7	12	10
10	15	15	17	13	12	17	7.6	39	37	9.5	11	8.5
11	15	16	17	12	11	20	6.0	41	37	8.8	11	8.4
12	20	16	18	13	e10	18	5.3	46	35	7.3	9.7	7.7
13	22	18	15	13	e15	16	4.6	54	31	6.9	15	6.8
14	23	18	15	14	e20	14	4.4	48	24	10	11	7.6
15	27	18	15	13	e25	13	4.5	42	28	10	11	8.5
16	23	17	15	13	e30	13	5.2	45	23	12	12	7.1
17	20	17	15	12	e35	13	5.5	47	17	7.9	12	5.9
18	34	18	14	12	e30	13	9.1	47	20	7.9	13	5.6
19	20	17	13	11	e24	78	20	45	19	7.7	17	5.7
20	18	16	13	11	e20	40	26	44	22	5.8	15	6.0
21	18	16	e12	12	e17	20	26	47	19	7.4	14	6.3
22	17	22	e11	12	e15	18	18	45	26	8.2	19	6.1
23	15	27	10	12	e22	18	26	46	25	9.1	20	7.5
24	15	19	9.5	22	e30	16	28	41	22	12	19	8.2
25	15	17	9.8	16	e35	15	31	41	22	11	16	9.9
26	14	15	9.4	16	e40	14	29	42	20	6.5	12	9.0
27	14	15	10	15	e35	13	32	45	19	4.8	14	8.0
28	14	14	11	14	e30	13	35	49	16	4.1	14	6.7
29	15	14	11	13	---	13	36	44	16	4.8	14	9.0
30	15	15	10	13	---	12	29	48	16	6.7	13	11
31	15	---	11	e12	---	12	---	58	---	7.3	13	---
TOTAL	549	498	415.7	415	578.0	675	501.5	1295	894	276.2	385.6	290.5
MEAN	17.7	16.6	13.4	13.4	20.6	21.8	16.7	41.8	29.8	8.91	12.4	9.68
MAX	34	27	19	22	40	78	36	58	54	16	20	18
MIN	14	14	9.4	11	9.0	12	4.4	29	16	4.1	6.0	5.6
AC-FT	1090	988	825	823	1150	1340	995	2570	1770	548	765	576

WTR YR 1994 TOTAL 6773.5 MEAN 18.6 MAX 78 MIN 4.1 AC-FT 13440

e Estimated

10155500 PROVO RIVER NEAR CHARLESTON, UT

LOCATION.--Lat 40°29'03", long 111°27'46", in NE¼NE¼SW¼ 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.--Oct. 1938 to Sept. 1950, Oct. 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,460 ft above sea level, from topographic map. Prior to Oct. 1991 at different sites and datums.

REMARKS.--No estimated daily discharges. Records good through July 6 and fair thereafter. Records include flow of Weber-Provo diversion canal and Duchesne Tunnel, a transmountain 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, Oct. 7, 1948 at site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,110 ft³/s May 15, gage height 4.63 ft; minimum daily discharge, 21 ft³/s July 28, 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	82	85	72	66	133	67	307	486	31	23	29
2	54	80	85	72	65	120	66	306	459	33	26	29
3	51	81	82	73	65	112	66	303	441	34	25	30
4	50	82	81	73	66	104	69	282	438	35	25	31
5	55	89	81	82	66	95	70	233	437	35	24	27
6	62	90	80	76	67	91	69	246	382	32	25	28
7	65	90	78	73	78	88	71	301	321	33	23	27
8	69	89	79	72	120	85	63	357	295	32	24	25
9	72	92	84	74	79	81	57	368	258	32	29	24
10	67	97	83	73	74	80	61	486	215	31	31	24
11	70	90	82	72	73	85	56	572	164	29	33	25
12	77	83	86	73	68	81	53	712	128	28	28	24
13	78	86	79	73	68	77	52	874	95	30	29	24
14	79	90	78	71	68	75	44	993	81	31	30	25
15	85	89	77	70	68	73	37	1100	73	29	30	26
16	84	88	78	69	68	72	48	1080	63	29	30	26
17	78	86	76	68	71	69	61	1050	51	31	29	26
18	99	86	74	68	94	68	82	956	37	29	33	25
19	81	83	73	67	83	160	103	801	33	26	41	27
20	91	81	71	67	76	125	106	674	30	25	37	28
21	101	80	70	66	76	86	188	666	30	23	33	25
22	81	87	70	67	73	80	273	653	31	23	34	25
23	85	95	71	67	72	81	342	642	32	22	33	25
24	84	85	70	84	74	80	362	691	33	22	34	24
25	82	81	70	76	93	78	364	836	28	25	34	24
26	81	80	71	74	129	72	334	875	27	23	35	25
27	80	81	72	74	148	69	314	743	27	22	35	24
28	81	81	74	72	144	69	311	759	29	21	32	24
29	80	82	72	71	---	68	320	859	29	21	30	26
30	82	85	71	69	---	67	308	636	29	22	29	30
31	82	---	71	67	---	65	---	479	---	24	30	---
TOTAL	2341	2571	2374	2225	2292	2689	4417	19840	4782	863	934	782
MEAN	75.5	85.7	76.6	71.8	81.9	86.7	147	640	159	27.8	30.1	26.1
MAX	101	97	86	84	148	160	364	1100	486	35	41	31
MIN	50	80	70	66	65	65	37	233	27	21	23	24
AC-FT	4640	5100	4710	4410	4550	5330	8760	39350	9490	1710	1850	1550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1994, BY WATER YEAR (WY)

MEAN	59.3	106	107	107	114	154	288	660	519	98.2	42.4	42.1
MAX	125	150	140	127	140	272	710	1243	1255	308	78.3	74.3
(WY)	1950	1992	1992	1950	1950	1993	1946	1993	1993	1993	1993	1947
MIN	21.4	60.5	76.6	71.8	81.9	86.7	87.0	314	41.0	23.5	18.5	16.8
(WY)	1941	1940	1994	1994	1994	1994	1940	1940	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1939 - 1994	
ANNUAL TOTAL	119634		46110			
ANNUAL MEAN	328		126		192	
HIGHEST ANNUAL MEAN					328	1993
LOWEST ANNUAL MEAN					91.3	1940
HIGHEST DAILY MEAN	2210	May 23	1100	May 15	2210	May 23 1993
LOWEST DAILY MEAN	45	Jul 20	21	Jul 28	14	Sep 11 1992
ANNUAL SEVEN-DAY MINIMUM	53	Aug 17	22	Jul 23	15	Sep 6 1992
ANNUAL RUNOFF (AC-FT)	237300		91460		138700	
10 PERCENT EXCEEDS	1170		316		489	
50 PERCENT EXCEEDS	113		72		105	
90 PERCENT EXCEEDS	62		26		32	

10156000 SNAKE CREEK NEAR CHARLESTON, UT

LOCATION.--Lat 40°29'07", long 111°27'59", in NE¼NW¼SW¼ 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 sea level, from topographic map. Prior to 1993 at different datum.

REMARKS.--No estimated daily discharges. Records good. Some diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 126 ft³/s June 4, 1943, gage height, 3.06 ft, datum then in use; minimum, 19 ft³/s May 1, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 66 ft³/s Feb. 26, gage height, 2.91 ft; minimum daily discharge, 24 ft³/s July 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	46	43	37	37	51	37	36	41	28	27	35
2	48	45	43	37	37	51	38	36	44	29	27	35
3	47	46	42	37	37	50	38	36	44	28	26	33
4	46	47	41	38	37	50	37	34	43	28	26	34
5	43	46	41	40	37	49	37	32	40	28	26	34
6	43	46	41	39	37	49	37	32	39	28	25	34
7	45	46	41	38	40	50	38	34	41	28	25	34
8	45	46	41	38	50	49	37	38	40	27	25	33
9	45	46	41	39	40	48	38	38	48	27	28	31
10	43	46	42	38	39	48	39	36	45	26	28	31
11	43	45	41	38	38	49	38	38	42	26	30	31
12	44	43	42	38	37	49	38	41	38	26	32	29
13	44	42	40	38	37	48	37	44	37	26	34	30
14	44	44	40	38	37	48	37	38	35	27	30	33
15	46	43	40	38	37	48	38	39	32	25	29	35
16	46	44	40	38	37	47	41	38	33	25	28	33
17	45	45	40	38	38	47	44	40	32	25	28	33
18	49	46	40	38	43	47	39	38	32	25	28	32
19	47	45	40	37	40	54	39	36	32	25	32	33
20	46	46	39	38	42	47	38	35	32	25	34	34
21	46	46	39	38	43	43	37	36	32	24	32	32
22	47	48	38	38	43	42	35	39	32	25	33	34
23	44	47	38	38	43	41	34	39	29	25	31	34
24	44	47	37	42	44	41	36	37	30	25	32	33
25	45	47	37	39	50	41	36	41	29	25	33	34
26	47	45	37	39	53	40	35	42	28	26	33	33
27	48	43	36	39	54	39	42	43	28	28	32	32
28	48	42	37	39	51	38	43	48	29	26	32	31
29	47	42	37	38	---	38	39	47	29	26	33	33
30	46	42	37	38	---	38	36	45	28	26	32	36
31	46	---	37	38	---	38	---	42	---	26	32	---
TOTAL	1414	1352	1228	1186	1158	1418	1138	1198	1064	814	923	989
MEAN	45.6	45.1	39.6	38.3	41.4	45.7	37.9	38.6	35.5	26.3	29.8	33.0
MAX	49	48	43	42	54	54	44	48	48	29	34	36
MIN	43	42	36	37	37	38	34	32	28	24	25	29
AC-FT	2800	2680	2440	2350	2300	2810	2260	2380	2110	1610	1830	1960

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1950, 1994 BY WATER YEAR (WY)

MEAN	45.9	47.5	43.6	41.3	41.2	45.1	45.8	54.9	57.8	43.5	38.4	38.6
MAX	57.5	62.9	53.9	49.9	54.9	52.1	57.8	87.5	72.4	52.8	49.8	48.5
(WY)	1946	1946	1946	1946	1945	1945	1945	1943	1943	1950	1945	1945
MIN	35.5	33.8	36.2	35.4	33.6	36.2	36.3	38.6	35.5	26.3	28.3	29.5
(WY)	1940	1940	1940	1941	1941	1940	1941	1994	1994	1994	1940	1939

SUMMARY STATISTICS	FOR 1994 WATER YEAR		WATER YEARS 1939 - 1950, 1994	
ANNUAL TOTAL	13882			
ANNUAL MEAN	38.0		45.2	
HIGHEST ANNUAL MEAN			52.5	1945
LOWEST ANNUAL MEAN			36.2	1940
HIGHEST DAILY MEAN	54	Feb 27	108	Jun 1 1943
LOWEST DAILY MEAN	24	Jul 21	24	Jul 21 1994
ANNUAL SEVEN-DAY MINIMUM	25	Jul 15	25	Jul 15 1994
ANNUAL RUNOFF (AC-FT)	27530		32720	
10 PERCENT EXCEEDS	47		57	
50 PERCENT EXCEEDS	38		44	
90 PERCENT EXCEEDS	28		34	

10157000 DANIELS CREEK ABOVE DIVERSIONS NEAR HEBER CITY, UT

LOCATION.--Lat 40°25'54", long 111°21'07", in NW¼SE¼NW¼ sec. 35, T. 4 S., R. 5 E., Wasatch County, Hydrologic Unit 16020203, on right bank 6 mi southeast of Heber City and 7.5 mi upstream from Deer Creek Reservoir.

DRAINAGE AREA.--37.2 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,110 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Records may include flow from Strawberry River and Willow Creek Ditches, which are transmountain diversions.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 157 ft³/s May 22, 1993, gage height 6.17 ft; minimum, 1.2 ft³/s Nov. 11, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 73 ft³/s May 13, gage height 5.47 ft; minimum daily, 2.3 ft³/s Dec. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	3.0	e3.7	e3.1	e3.0	e3.5	4.4	13	23	7.2	3.9	2.9
2	5.4	3.0	e3.6	e3.3	e2.9	e3.7	4.2	13	22	7.6	4.0	2.9
3	5.4	3.0	e3.5	e3.3	e3.2	3.9	4.7	14	22	7.8	3.4	3.4
4	5.4	3.0	e3.4	e3.5	e3.2	4.0	5.3	16	21	7.5	3.1	3.3
5	5.1	3.0	e3.3	e3.6	e3.3	4.0	4.8	30	20	7.0	2.9	2.9
6	5.4	2.9	e3.2	e3.3	e3.3	3.7	4.4	46	19	6.7	2.8	2.9
7	5.8	3.0	e3.3	e3.1	e3.6	3.7	4.3	50	18	7.0	2.8	3.0
8	6.9	3.1	e3.7	e3.4	e3.6	3.7	4.0	44	18	7.0	2.8	2.9
9	6.8	3.0	e3.7	e3.5	e3.5	3.6	4.2	44	17	6.7	4.5	2.8
10	5.6	2.9	e3.8	e3.3	e3.6	3.7	4.4	47	16	6.3	5.5	2.8
11	5.9	2.9	e3.4	e3.1	e3.5	3.7	4.3	50	15	6.2	4.6	2.7
12	7.4	2.9	e3.1	e3.5	e3.4	3.7	4.2	55	15	6.0	4.5	2.8
13	6.2	2.9	e2.8	e3.4	e3.7	3.9	4.6	65	14	5.7	4.1	3.4
14	6.2	2.9	e3.2	e3.3	e3.8	4.1	5.4	64	13	5.4	4.4	3.6
15	6.4	2.8	e3.5	e2.9	e3.7	4.2	6.1	58	13	5.5	3.8	3.6
16	6.2	2.9	e3.0	e3.4	e3.6	4.3	7.2	56	12	5.3	3.3	3.4
17	6.1	2.9	e2.6	e2.8	e3.5	4.5	9.8	49	12	5.1	3.1	3.3
18	5.2	2.9	e2.3	e3.1	e3.6	4.4	12	40	11	5.1	3.1	3.1
19	4.2	2.7	e2.5	e3.2	e3.7	4.6	13	43	10	5.1	5.5	3.0
20	3.7	3.1	e2.8	e3.0	e3.4	5.2	17	39	10	4.5	6.7	3.3
21	3.4	3.4	e2.6	e3.2	e3.6	4.6	22	35	10	4.0	4.5	3.5
22	3.2	3.3	e2.7	2.9	e3.5	4.6	30	32	10	3.9	3.9	3.2
23	3.2	3.2	e2.9	2.8	e3.5	4.4	35	31	9.4	3.9	3.5	3.1
24	3.2	3.0	e3.0	2.7	e3.7	4.2	28	30	8.7	3.9	3.2	3.0
25	3.1	e2.6	e2.9	2.7	e3.6	3.9	23	31	8.1	3.9	3.0	3.0
26	3.0	e2.9	e3.0	2.7	e3.7	3.8	20	30	7.5	3.7	3.0	2.9
27	3.0	e3.2	e3.2	2.8	e3.7	3.7	17	29	8.9	3.5	3.1	2.9
28	3.0	e3.5	e3.1	2.7	e3.5	3.5	17	29	8.8	3.5	3.5	2.9
29	3.0	e3.7	e3.0	2.8	---	3.7	15	26	8.1	3.3	3.2	3.2
30	3.0	e3.6	e2.9	3.3	---	3.7	14	24	7.5	3.2	3.2	4.5
31	3.0	---	e2.9	e2.8	---	3.9	---	24	---	3.9	3.0	---
TOTAL	148.8	91.2	96.6	96.5	97.9	124.1	349.3	1157	408.0	165.4	115.9	94.2
MEAN	4.80	3.04	3.12	3.11	3.50	4.00	11.6	37.3	13.6	5.34	3.74	3.14
MAX	7.4	3.7	3.8	3.6	3.8	5.2	35	65	23	7.8	6.7	4.5
MIN	3.0	2.6	2.3	2.7	2.9	3.5	4.0	13	7.5	3.2	2.8	2.7
AC-FT	295	181	192	191	194	246	693	2290	809	328	230	187

CAL YR 1993 TOTAL 5544.1 MEAN 15.2 MAX 140 MIN 2.3 AC-FT 11000
WTR YR 1994 TOTAL 2944.9 MEAN 8.07 MAX 65 MIN 2.3 AC-FT 5840

e Estimated

10157500 DANIELS CREEK AT CHARLESTON, UTAH

LOCATION.--Lat 40°27'39", long 111°28'19", in SE¼NE¼NE¼ 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.--

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

GAGE.--Water-stage recorder. Elevation of gage is 5,420 ft above sea level, from topographic map.

REMARKS.--Records good except those prior to May 29, 1993 and estimated daily discharges, which are poor. Small transmountain 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 daily discharge, 160 ft³/s May 22, 1993; no flow several days in July and August, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 52 ft³/s Apr. 27, gage height, 3.17 ft; maximum gage height, 3.21 ft, May 14; no flow several days in July and August.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	38	38	26	10	14
2	---	---	---	---	---	---	---	33	43	19	6.8	4.6
3	---	---	---	---	---	---	---	38	47	13	13	4.1
4	---	---	---	---	---	---	---	71	40	18	16	2.6
5	---	---	---	---	---	---	---	63	43	10	17	2.9
6	---	---	---	---	---	---	---	58	42	8.1	15	6.8
7	---	---	---	---	---	---	---	61	58	7.4	12	8.3
8	---	---	---	---	---	---	---	56	63	11	16	14
9	---	---	---	---	---	---	---	51	53	8.7	20	15
10	---	---	---	---	---	---	---	55	47	8.3	41	16
11	---	---	---	---	---	---	---	59	37	2.3	48	14
12	---	---	---	---	---	---	---	87	24	3.8	45	12
13	---	---	---	---	---	---	---	e92	24	3.7	37	7.4
14	---	---	---	---	---	---	---	e98	21	5.5	29	7.1
15	---	---	---	---	---	---	---	103	27	7.4	22	7.9
16	---	---	---	---	---	---	---	103	33	9.8	23	8.1
17	---	---	---	---	---	---	---	118	50	5.6	21	15
18	---	---	---	---	---	---	---	e125	54	6.3	16	19
19	---	---	---	---	---	---	---	132	47	8.6	22	15
20	---	---	---	---	---	---	---	e140	41	9.1	22	14
21	---	---	---	---	---	---	---	e150	36	7.5	24	14
22	---	---	---	---	---	---	---	e160	39	14	19	9.5
23	---	---	---	---	---	---	---	e140	39	13	14	7.4
24	---	---	---	---	---	---	---	e120	35	16	11	6.0
25	---	---	---	---	---	---	---	e110	30	14	5.5	6.3
26	---	---	---	---	---	---	---	e100	27	21	7.9	4.8
27	---	---	---	---	---	---	---	e85	22	19	6.3	1.9
28	---	---	---	---	---	---	---	65	19	18	13	2.1
29	---	---	---	---	---	---	---	44	18	16	18	3.7
30	---	---	---	---	---	---	---	35	26	17	17	3.2
31	---	---	---	---	---	---	---	39	---	15	16	---
TOTAL	---	---	---	---	---	---	---	2629	1123	362.1	603.5	266.7
MEAN	---	---	---	---	---	---	---	84.8	37.4	11.7	19.5	8.89
MAX	---	---	---	---	---	---	---	160	63	26	48	19
MIN	---	---	---	---	---	---	---	33	18	2.3	5.5	1.9
AC-FT	---	---	---	---	---	---	---	5210	2230	718	1200	529

e Estimated

10157500 DANIELS CREEK AT CHARLESTON, UT--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	5.0	e3.5	e4.6	e4.4	e5.0	2.9	20	10	.17	.01	1.0
2	4.1	4.8	e3.4	e4.8	e4.3	e5.3	3.1	23	11	.05	.05	.67
3	7.1	4.5	e3.3	e5.0	e4.6	e5.6	3.2	28	9.9	.20	.05	.70
4	6.5	4.5	e3.2	e5.2	e4.6	e5.4	3.3	31	8.2	.91	.00	2.0
5	3.4	3.9	e3.1	e5.4	e4.8	5.4	2.4	25	6.8	.07	.12	.38
6	6.5	3.7	e3.1	e5.0	e4.8	5.1	2.4	35	13	.05	.07	3.4
7	16	3.8	e3.2	e4.6	e5.2	4.5	2.2	38	10	.06	.00	5.7
8	14	4.3	e3.4	e4.9	e5.1	4.3	1.8	39	8.5	.09	.00	8.9
9	12	4.3	3.7	e5.2	e5.0	4.2	3.2	26	14	.17	.13	7.2
10	10	4.3	3.6	e4.9	e5.2	3.7	6.1	24	11	.08	.04	7.1
11	13	4.7	3.4	e4.6	e5.1	2.8	4.9	26	10	.05	.00	6.0
12	16	5.0	3.2	e5.0	e5.0	3.0	3.9	29	15	.03	.03	5.9
13	16	3.7	3.2	e5.0	e5.3	2.8	3.0	38	13	.03	.05	6.6
14	16	3.5	3.3	e4.7	e5.6	3.0	3.1	42	9.8	.62	.03	.74
15	15	3.1	3.5	e4.2	e5.4	3.1	1.7	39	7.5	1.5	.44	3.4
16	13	2.8	3.8	e4.9	e5.2	3.1	.29	44	5.5	.38	1.3	.54
17	12	2.7	e3.3	e4.2	e5.0	2.9	1.0	40	1.7	2.1	.05	.23
18	12	2.8	e3.0	e4.5	e5.2	3.1	2.7	33	1.9	.19	.05	.19
19	8.8	2.7	e3.5	e4.8	e5.4	7.5	17	32	1.5	.04	3.9	1.7
20	9.1	2.5	e4.0	e4.6	e5.0	5.1	15	31	1.4	.02	4.3	4.8
21	9.4	2.7	e3.8	5.3	e5.2	2.8	10	26	3.3	.01	4.0	5.3
22	9.0	2.9	e4.0	5.3	e5.0	1.8	19	23	5.9	.01	9.2	5.3
23	8.6	3.9	e4.2	5.0	e5.2	1.7	45	22	4.0	.00	8.7	6.0
24	8.4	2.8	e4.4	6.3	e5.4	1.4	34	17	2.3	.00	5.2	3.9
25	8.0	e2.4	e4.3	5.6	e5.2	1.7	33	13	2.4	.00	.50	.12
26	7.0	e2.7	e4.5	5.6	e5.4	1.9	33	14	.69	.24	2.4	.60
27	5.6	e3.0	e4.7	5.6	e5.3	2.7	44	19	2.2	.06	2.8	.40
28	5.7	e3.2	e4.5	5.4	e5.1	3.1	39	13	.66	.03	2.5	.56
29	5.5	e3.4	e4.4	5.4	---	2.9	34	7.1	.13	.13	2.6	1.9
30	4.3	e3.3	e4.3	5.2	---	2.6	26	7.3	.18	.03	1.6	2.9
31	5.2	---	e4.3	e4.2	---	2.6	---	8.5	---	.00	.93	---
TOTAL	290.7	106.9	115.1	155.0	142.0	110.1	400.19	812.9	191.46	7.32	51.05	94.13
MEAN	9.38	3.56	3.71	5.00	5.07	3.55	13.3	26.2	6.38	.24	1.65	3.14
MAX	16	5.0	4.7	6.3	5.6	7.5	45	44	15	2.1	9.2	8.9
MIN	3.4	2.4	3.0	4.2	4.3	1.4	.29	7.1	.13	.00	.00	.12
AC-FT	577	212	228	307	282	218	794	1610	380	15	101	187

WTR YR 1994 TOTAL 2476.85 MEAN 6.79 MAX 45 MIN .00 AC-FT 4910

e Estimated

10159500 PROVO RIVER BELOW DEER CREEK DAM, UT

LOCATION.--Lat 40°24'12", long 111°31'44", in NE¼NE¼NE¼ 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 5,270 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. 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 transmountain 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 June 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 discharge, 635 ft³/s May 17, gage height 4.47 ft; minimum daily discharge, 82 ft³/s Oct. 20, 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	471	87	96	87	77	91	100	223	544	530	298	265
2	508	87	95	87	77	89	99	223	545	533	298	270
3	511	87	96	86	76	86	100	224	546	532	334	284
4	463	86	95	84	77	86	102	235	567	520	366	285
5	396	88	95	83	79	84	101	213	582	510	378	290
6	372	87	94	83	78	83	100	240	570	405	383	293
7	349	88	92	83	79	87	97	293	509	397	389	318
8	319	86	91	83	81	87	100	321	512	459	369	328
9	305	86	89	83	79	87	99	363	496	460	275	345
10	298	88	89	83	80	85	99	368	514	452	232	344
11	298	88	89	81	81	88	100	374	533	442	233	343
12	279	86	90	82	80	87	100	442	543	440	241	346
13	253	88	87	82	79	89	101	462	544	438	236	343
14	251	88	89	78	74	90	102	458	546	415	237	337
15	228	88	90	77	74	87	103	435	544	406	237	303
16	209	87	89	77	74	88	103	450	537	408	274	260
17	211	85	88	77	77	90	106	555	524	414	328	255
18	130	86	88	77	82	92	107	610	542	430	353	253
19	85	86	88	79	80	91	139	526	546	438	358	247
20	82	88	85	82	81	88	177	474	550	438	342	248
21	82	88	86	81	82	90	192	486	549	447	339	242
22	84	93	86	80	83	92	211	528	546	419	333	231
23	84	95	86	80	85	93	209	548	551	392	338	236
24	85	88	86	82	87	94	221	564	539	372	348	233
25	84	87	86	78	84	94	241	568	521	373	346	228
26	83	92	87	77	83	93	250	564	518	367	336	226
27	83	99	87	76	88	94	251	558	533	356	336	222
28	85	97	85	75	86	94	237	518	532	350	333	217
29	85	97	85	76	---	96	225	501	527	351	315	217
30	86	97	85	78	---	98	225	514	524	348	289	168
31	87	---	86	78	---	99	---	532	---	336	273	---
TOTAL	6946	2673	2760	2495	2243	2792	4397	13370	16134	13178	9747	8177
MEAN	224	89.1	89.0	80.5	80.1	90.1	147	431	538	425	314	273
MAX	511	99	96	87	88	99	251	610	582	533	389	346
MIN	82	85	85	75	74	83	97	213	496	336	232	168
AC-FT	13780	5300	5470	4950	4450	5540	8720	26520	32000	26140	19330	16220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1994, BY WATER YEAR (WY)

MEAN	208	186	226	204	210	243	324	603	836	500	416	339
MAX	490	509	508	418	681	1146	1202	1200	1613	927	575	581
(WY)	1984	1983	1983	1984	1986	1986	1986	1984	1983	1965	1986	1986
MIN	75.6	.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 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1954 - 1994	
ANNUAL TOTAL	142347		84912			
ANNUAL MEAN	390		233		358	
HIGHEST ANNUAL MEAN					641	1986
LOWEST ANNUAL MEAN					148	1977
HIGHEST DAILY MEAN	1830	May 28	610	May 18	2240	Jun 2 1983
LOWEST DAILY MEAN	52	Jan 12	74	Feb 14	.00	Feb 2 1957
ANNUAL SEVEN-DAY MINIMUM	54	Jan 10	77	Jan 26	.40	Dec 1 1962
ANNUAL RUNOFF (AC-FT)	282300		168400		259600	
10 PERCENT EXCEEDS	1100		524		600	
50 PERCENT EXCEEDS	251		130		306	
90 PERCENT EXCEEDS	66		82		91	

10163000 PROVO RIVER AT PROVO, UT

LOCATION.--Lat 40°14'16", long 111°41'55", in NE¼NW¼SE¼ 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, nonrecording 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.--No estimated daily discharges. Records good. Station is below all diversions. At times entire flow is diverted above station for irrigation. Flow regulated by Deer Creek 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 transmountain 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, 329 ft³/s Oct. 18, gage height, 4.70 ft; minimum daily discharge, 2.9 ft³/s Aug. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	123	110	100	54	73	92	49	98	11	18	3.4
2	206	122	110	101	54	73	91	42	88	16	14	5.7
3	210	125	108	102	55	76	88	40	75	14	8.2	6.1
4	183	115	110	102	52	80	99	33	58	15	9.5	9.9
5	143	111	113	111	51	79	103	25	43	16	29	11
6	153	110	113	105	51	72	97	19	43	15	22	14
7	175	104	100	104	59	69	100	33	37	19	23	18
8	203	107	109	103	87	69	93	52	27	16	24	22
9	210	103	94	104	73	69	99	56	28	13	50	20
10	212	110	110	104	65	69	112	53	17	8.2	22	43
11	215	124	105	100	64	81	103	47	14	15	19	39
12	225	125	114	93	65	71	102	38	12	6.6	22	42
13	216	116	106	95	62	60	100	47	20	16	16	46
14	229	111	104	93	59	62	97	64	41	12	21	71
15	243	116	104	86	61	62	88	64	47	9.5	22	74
16	244	125	104	80	57	62	85	72	36	8.3	9.9	46
17	250	119	102	80	64	67	71	109	29	24	17	36
18	232	114	102	80	91	72	52	178	26	27	21	32
19	166	111	104	80	71	85	52	159	49	12	32	38
20	150	106	102	85	65	81	55	74	45	15	28	29
21	143	108	106	88	66	83	50	47	59	24	30	45
22	135	120	104	87	63	98	64	45	63	32	27	36
23	121	127	106	86	61	102	69	40	58	32	23	39
24	130	111	106	77	62	103	69	40	44	19	13	50
25	129	109	107	65	64	103	63	44	24	18	3.0	42
26	122	107	105	66	65	100	69	38	19	14	3.0	32
27	117	107	103	66	86	100	78	52	23	6.4	2.9	25
28	119	108	104	64	79	100	81	63	22	6.4	5.8	22
29	116	109	103	63	---	99	61	64	14	9.7	5.6	54
30	114	110	102	62	---	96	54	73	11	9.0	6.7	94
31	122	---	101	60	---	89	---	87	---	10	4.7	---
TOTAL	5364	3413	3271	2692	1806	2505	2437	1847	1170	469.1	552.3	1045.1
MEAN	173	114	106	86.8	64.5	80.8	81.2	59.6	39.0	15.1	17.8	34.8
MAX	250	127	114	111	91	103	112	178	98	32	50	94
MIN	114	103	94	60	51	60	50	19	11	6.4	2.9	3.4
AC-FT	10640	6770	6490	5340	3580	4970	4830	3660	2320	930	1100	2070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1994, BY WATER YEAR (WY)

MEAN	141	214	261	244	249	273	311	313	362	47.2	21.0	46.8
MAX	512	585	574	513	818	1257	1345	1396	1571	390	210	278
(WY)	1984	1983	1983	1984	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	.68	1.12	1.56
(WY)	1961	1963	1993	1989	1989	1961	1961	1961	1977	1946	1960	1960

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1944 - 1994	
ANNUAL TOTAL	90522		26571.5			
ANNUAL MEAN	248		72.8		206	
HIGHEST ANNUAL MEAN					553	1986
LOWEST ANNUAL MEAN					41.5	1989
HIGHEST DAILY MEAN	1610	May 23	250	Oct 17	2420	May 6 1952
LOWEST DAILY MEAN	22	Jul 18	2.9	Aug 27	.10	Aug 25 1992
ANNUAL SEVEN-DAY MINIMUM	28	Jul 15	4.5	Aug 25	.46	Jul 24 1946
ANNUAL RUNOFF (AC-FT)	179600		52700		149500	
10 PERCENT EXCEEDS	615		120		415	
50 PERCENT EXCEEDS	108		69		145	
90 PERCENT EXCEEDS	49		14		5.9	

10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UT

LOCATION.--Lat 40°26'52", long 111°40'53", in SE¼NW¼NE¼ 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 powerplant of Utah Power & Light Co., 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.

GAGE.--Water-stage recorder. Elevation of gage is 5,950 ft above sea level, from topographic map. Prior to Sept. 8, 1965, at same site at different datum. Sept. 8, 1965 to Nov. 20, 1967, at site 300 ft upstream.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Silver Lake Flat Reservoir (constructed 1971) and Tibble Reservoir; total capacity, 1,260 acre-ft.

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

AVERAGE DISCHARGE.--67 years, 55.6 ft³/s, 40,280 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred July 30, 1953, gage height, 9.20 ft, from floodmark; minimum, 1.1 ft³/s Dec. 20, 1976 (result of freezeup).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 258 ft³/s May 13, gage height 7.18 ft; minimum daily discharge, 15 ft³/s several days in January, February and September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	27	24	19	e15	16	23	44	206	53	26	16
2	39	26	23	19	e16	17	22	43	188	52	26	17
3	40	27	22	19	16	18	23	43	177	50	26	15
4	38	26	21	19	16	19	25	43	185	48	25	16
5	38	26	21	19	16	19	28	52	173	47	24	16
6	40	26	21	18	16	19	23	63	163	46	24	16
7	44	25	20	18	16	19	22	75	151	46	24	15
8	42	25	20	18	17	19	21	75	128	44	23	15
9	41	25	20	18	16	19	21	79	115	44	27	15
10	39	25	20	18	16	19	20	92	111	44	25	15
11	38	25	20	18	17	21	20	113	112	44	25	15
12	40	25	22	18	e16	19	20	134	115	43	24	15
13	38	25	22	18	e15	19	22	221	118	41	24	16
14	38	25	22	18	16	20	26	187	115	41	24	16
15	40	24	21	18	16	21	28	161	107	38	24	16
16	39	24	21	17	16	23	35	141	94	38	22	16
17	38	25	21	17	17	22	44	128	88	37	21	16
18	39	25	21	17	18	23	52	116	83	36	21	16
19	44	22	21	17	17	25	60	109	82	35	22	16
20	46	21	21	17	17	23	72	116	79	34	22	16
21	38	22	21	18	16	22	84	143	73	34	21	20
22	35	27	20	18	16	22	96	151	70	34	20	16
23	34	26	20	18	15	21	88	166	69	37	20	16
24	33	23	20	19	16	21	47	166	72	32	18	16
25	32	19	20	19	16	20	63	173	66	32	17	16
26	31	e18	20	18	16	20	55	173	62	31	18	16
27	29	18	20	18	16	19	51	170	60	30	18	16
28	29	20	20	18	16	19	52	186	57	30	18	16
29	29	24	20	17	---	19	46	194	54	30	17	20
30	28	25	19	16	---	20	45	195	53	28	17	21
31	27	---	19	15	---	21	---	217	---	28	16	---
TOTAL	1145	721	643	554	452	624	1234	3969	3226	1207	679	487
MEAN	36.9	24.0	20.7	17.9	16.1	20.1	41.1	128	108	38.9	21.9	16.2
MAX	46	27	24	19	18	25	96	221	206	53	27	21
MIN	27	18	19	15	15	16	20	43	53	28	16	15
AC-FT	2270	1430	1280	1100	897	1240	2450	7870	6400	2390	1350	966

CAL YR 1993 TOTAL 33167.6 MEAN 90.9 MAX 531 MIN 9.6 AC-FT 65790
WTR YR 1994 TOTAL 14941 MEAN 40.9 MAX 221 MIN 15 AC-FT 29640

e Estimated

10166430 WEST CANYON CREEK NEAR CEDAR FORT, UT

LOCATION (REVISED).--Lat 40°24'19", long 112°05'59", in NW¼NE¼NE¼ sec. 7, T. 5 S., R. 2 W., Utah County, 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 sea level, from topographic map. Prior to July 21, 1993 at site 700 ft upstream at different datum.

REMARKS.--Records fair. 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, 10 ft³/s May 12, 31; maximum gage height 3.25 ft from high water marks, discharge unknown; minimum daily discharge, 0.35 ft³/s Mar. 8-11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.9	e.80	e.77	e.59	e.46	.48	3.2	9.5	2.1	1.1	1.1
2	.83	1.9	e.79	e.76	e.60	e.44	.46	3.2	8.7	2.0	1.1	.72
3	.70	1.9	e.77	e.75	e.60	e.43	.46	3.3	8.2	2.0	1.1	.76
4	.69	1.9	e.76	e.74	e.58	e.41	.47	3.7	7.6	1.9	1.0	.81
5	.61	1.8	e.76	e.71	e.56	e.40	.48	4.4	7.1	1.9	1.0	.82
6	1.1	1.8	e.75	e.69	e.54	e.38	.48	5.0	6.4	1.8	1.0	.77
7	1.6	1.7	e.74	e.70	e.51	e.37	.51	5.4	6.4	1.8	1.0	.79
8	1.7	1.6	e.74	e.70	e.54	e.35	.51	5.0	5.7	1.7	1.0	.75
9	1.5	1.6	.73	e.66	e.51	e.35	.54	5.0	5.4	1.6	1.1	.74
10	1.4	1.6	.72	e.68	e.49	e.35	.52	5.0	4.7	1.6	1.2	.78
11	1.6	1.7	.72	e.72	e.47	e.35	.51	6.2	4.6	1.5	e1.5	.83
12	1.4	1.6	e.72	e.75	e.46	e.38	.51	10	4.9	1.4	e5.0	.84
13	1.4	1.7	e.73	e.74	e.47	.41	.53	6.2	5.1	1.4	e1.6	.82
14	1.7	1.6	e.72	e.72	e.48	.42	.57	5.8	5.0	1.4	e1.4	.88
15	1.7	1.5	e.74	e.71	e.50	.42	.58	5.3	4.8	1.3	e1.3	.74
16	1.4	1.4	e.75	e.69	e.52	.42	.59	4.5	4.5	1.3	e1.3	.73
17	1.9	1.2	e.75	e.68	e.54	.42	.63	2.1	4.1	1.3	e1.3	.65
18	1.8	.98	e.75	e.67	e.52	.42	.66	1.2	3.8	1.3	e1.2	.64
19	1.4	e.95	e.74	e.67	e.52	e.43	.66	1.9	3.5	1.3	e1.1	.61
20	1.4	e.94	e.76	e.65	e.48	e.45	1.2	2.3	3.3	1.2	e1.0	.60
21	1.4	.93	e.79	e.64	e.48	.46	3.1	2.1	3.6	1.2	e.99	.57
22	1.4	.96	e.80	e.65	e.47	.48	4.0	1.9	3.3	1.4	e.98	.53
23	1.4	.92	e.82	e.65	e.49	e.47	3.9	1.5	3.0	1.2	e.97	.50
24	1.5	e.88	e.83	e.70	e.52	.48	3.0	2.0	2.9	1.2	1.1	.45
25	1.7	e.86	e.83	e.75	e.51	.47	2.9	2.7	2.7	1.2	1.2	.45
26	2.1	e.84	e.84	e.70	e.50	.46	2.9	3.7	2.5	1.2	1.3	.43
27	1.9	e.83	e.86	e.68	e.49	.46	3.5	5.0	2.5	1.2	1.4	.41
28	1.9	e.82	e.87	e.65	e.48	.46	3.9	5.9	2.3	1.2	1.4	.40
29	1.9	e.81	e.86	e.62	---	.46	3.3	7.1	2.3	1.2	1.6	.44
30	1.9	e.80	e.83	e.61	---	.47	3.0	8.6	2.2	1.2	1.6	.43
31	1.9	---	e.80	e.58	---	.47	---	10	---	1.2	1.5	---
TOTAL	45.83	39.92	24.07	21.39	14.42	13.20	44.85	139.2	140.6	45.2	41.34	19.99
MEAN	1.48	1.33	.78	.69	.51	.43	1.49	4.49	4.69	1.46	1.33	.67
MAX	2.1	1.9	.87	.77	.60	.48	4.0	10	9.5	2.1	5.0	1.1
MIN	.61	.80	.72	.58	.46	.35	.46	1.2	2.2	1.2	.97	.40
AC-FT	91	79	48	42	29	26	89	276	279	90	82	40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1994, BY WATER YEAR (WY)

MEAN	1.21	.98	.67	.55	.51	.84	4.28	13.5	11.1	4.69	2.50	1.49
MAX	3.67	3.00	1.48	1.40	1.56	2.69	17.4	44.2	27.6	21.2	8.90	4.47
(WY)	1987	1987	1974	1987	1987	1972	1969	1973	1975	1975	1975	1975
MIN	.17	.17	.10	.062	.057	.11	.11	3.05	1.63	.66	.26	.21
(WY)	1993	1991	1993	1991	1991	1990	1991	1990	1992	1992	1992	1989

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1966 - 1994	
ANNUAL TOTAL	2051.61		590.01			
ANNUAL MEAN	5.62		1.62		3.53	
HIGHEST ANNUAL MEAN					8.65	1973
LOWEST ANNUAL MEAN					.89	1992
HIGHEST DAILY MEAN	42	May 21	10	May 12	85	May 20 1973
LOWEST DAILY MEAN	.08	Jan 5	.35	Mar 8	.03	Oct 2 1992
ANNUAL SEVEN-DAY MINIMUM	.09	Jan 3	.36	Mar 6	.05	Jan 17 1991
ANNUAL RUNOFF (AC-FT)	4070		1170		2560	
10 PERCENT EXCEEDS	15		3.9		10	
50 PERCENT EXCEEDS	1.8		.94		1.1	
90 PERCENT EXCEEDS	.12		.47		.19	

e Estimated

10168300 TAILRACE AT STAIRS PLANT NEAR SALT LAKE CITY, UT

LOCATION.--Lat 40°37'26", long 111°45'05", in NW¼SE¼SW¼ sec. 20, T. 2 S., R. 2 E., Salt Lake County, Hydrologic Unit 16120204 on left bank at Stairs plant, 14 mi southeast of Salt Lake City.

DRAINAGE AREA.--49.2 mi².

PERIOD OF RECORD.--January 1925 to current year. Prior to 1986, not published, records available from Utah Power & Light Co.

GAGE.--Water-stage recorder. Elevation of gage is 5,460 ft above sea level, from topographic map.

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

AVERAGE DISCHARGE.--9 years, 24.3 ft³/s, 17,600 acre-ft/yr.

COOPERATION.--Records collected by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78 ft³/s July 1, 1954; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	24	20	18	15	18	24	49	50	e39	34	21
2	23	23	20	18	13	18	26	48	50	e35	36	21
3	22	24	21	18	13	18	28	50	49	e31	36	20
4	20	23	21	18	13	20	28	48	48	e34	35	20
5	22	23	20	19	15	22	31	47	49	e34	33	20
6	23	22	20	17	15	23	33	47	49	e35	33	20
7	24	22	20	19	15	22	31	48	49	e35	34	19
8	28	22	18	19	16	22	28	48	50	e36	33	20
9	29	21	19	20	15	22	29	47	50	e34	33	19
10	29	21	19	19	16	22	27	47	50	e34	27	18
11	27	22	20	18	16	22	28	45	47	e32	33	19
12	31	22	18	18	13	22	29	12	37	e35	44	19
13	31	22	18	17	15	22	28	37	50	e39	58	19
14	33	21	19	17	15	22	30	46	50	39	58	19
15	34	21	19	17	16	17	28	46	49	39	50	19
16	35	21	19	17	16	24	25	45	49	41	45	20
17	34	21	18	17	19	24	24	38	49	40	44	21
18	36	21	15	17	19	24	24	34	49	39	43	20
19	33	17	16	17	18	23	30	42	49	38	44	20
20	31	21	15	17	16	24	35	42	46	39	44	20
21	30	20	17	17	17	24	37	41	49	38	45	19
22	29	20	15	17	16	25	43	40	42	40	42	19
23	21	19	18	17	17	23	45	42	50	42	39	18
24	25	19	17	17	17	23	44	42	e51	39	39	17
25	27	16	18	17	17	24	23	43	e51	39	35	17
26	25	17	18	17	17	e24	28	45	e49	37	28	16
27	24	17	18	18	18	e24	30	50	e45	37	24	16
28	26	19	18	18	19	e24	25	50	e41	38	23	15
29	24	17	18	17	---	e24	43	50	e42	37	23	17
30	23	20	17	17	---	24	50	50	e39	36	22	19
31	24	---	18	14	---	24	---	50	---	36	21	---
TOTAL	850	618	567	543	447	694	934	1369	1428	1147	1138	567
MEAN	27.4	20.6	18.3	17.5	16.0	22.4	31.1	44.2	47.6	37.0	36.7	18.9
MAX	36	24	21	20	19	25	50	50	51	42	58	21
MIN	20	16	15	14	13	17	23	12	37	31	21	15
AC-FT	1690	1230	1120	1080	887	1380	1850	2720	2830	2280	2260	1120

CAL YR 1993 TOTAL 11234.32 MEAN 30.8 MAX 50 MIN .52 AC-FT 22280
WTR YR 1994 TOTAL 10302 MEAN 28.2 MAX 58 MIN 12 AC-FT 20430

e Estimated

10170500 SURPLUS CANAL AT SALT LAKE CITY, UT

LOCATION.--Lat 40°43'37", long 111°55'33", in $SE^1/_4SW^1/_4SW^1/_4$ 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 sea level. Prior to Oct. 22, 1952, at site 350 ft downstream, and Oct. 22, 1952 to Sept. 30, 1966, at site 400 ft downstream at different datum, Sept. 30, 1966 to Oct. 1, 1989 at datum 10.0 ft lower.

REMARKS.--Records good except for the period May 13 to June 6, which is 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.

AVERAGE DISCHARGE.--50 years, 371 ft^3/s, 268,800 acre-ft/year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,410 ft^3/s June 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, 1,980 ft^3/s May 13, gage height, 14.76 ft; minimum daily discharge, 102 ft^3/s Jan. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	172	154	169	115	194	187	219	702	169	197	186
2	193	177	135	173	114	197	169	210	581	178	204	181
3	187	190	149	140	115	192	178	216	548	191	218	177
4	188	193	156	110	114	190	306	193	536	203	209	177
5	192	190	150	142	117	191	213	223	486	207	188	180
6	229	180	150	125	116	199	208	284	432	184	170	170
7	434	180	149	119	117	188	305	309	376	184	173	173
8	490	179	151	120	165	185	222	284	321	182	186	162
9	324	174	153	115	144	182	299	287	299	182	280	160
10	307	178	153	103	133	184	604	308	271	180	315	172
11	315	184	155	102	185	190	291	351	260	186	323	179
12	364	186	195	117	152	154	204	433	287	185	263	175
13	270	189	176	131	138	145	198	1230	332	180	342	173
14	537	191	163	130	139	142	200	850	324	185	244	167
15	352	202	164	132	139	136	202	498	278	174	229	155
16	287	195	170	128	137	127	208	511	265	171	213	159
17	215	189	166	127	145	125	210	416	209	173	183	165
18	270	195	166	126	210	126	220	310	185	171	155	156
19	200	191	165	125	176	182	264	253	174	182	158	152
20	191	190	165	123	157	183	344	237	190	174	162	154
21	289	194	165	121	159	147	401	204	181	157	159	160
22	256	210	164	124	163	175	448	192	197	163	151	164
23	222	244	161	123	160	206	449	217	184	185	151	173
24	179	230	159	121	181	163	325	243	180	165	154	173
25	173	217	152	120	221	156	284	285	173	167	168	175
26	171	198	163	120	180	143	300	286	177	167	149	178
27	169	188	166	126	237	137	330	306	168	180	156	167
28	168	191	169	124	218	136	332	579	167	178	179	167
29	169	197	167	124	---	138	279	554	178	180	220	224
30	173	201	166	123	---	140	217	506	160	185	191	434
31	171	---	169	118	---	156	---	674	---	202	193	---
TOTAL	7885	5795	4986	3901	4347	5109	8397	11668	8821	5570	6283	5388
MEAN	254	193	161	126	155	165	280	376	294	180	203	180
MAX	537	244	195	173	237	206	604	1230	702	207	342	434
MIN	168	172	135	102	114	125	169	192	160	157	149	152
AC-FT	15640	11490	9890	7740	8620	10130	16660	23140	17500	11050	12460	10690

CAL YR 1993 TOTAL 140896 MEAN 386 MAX 3030 MIN 135 AC-FT 279500
WTR YR 1994 TOTAL 78150 MEAN 214 MAX 1230 MIN 102 AC-FT 155000

10171000 JORDAN RIVER AT SALT LAKE CITY, UT

LOCATION.--Lat 40°44'01", long 111°55'21", in $SW^1/_4SE^1/_4NW^1/_4$ 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 mi^2 includes 255 mi^2 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 sea level. Prior to July 1, 1976 at site 3,200 ft upstream at same datum.

REMARKS.--Records fair. 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 ft^3/s Aug. 20, 1986, gage height, 4.41 ft; maximum gage height, 5.75 ft June 26, 1952; no flow May 10, 24, 1952. May 21, 22, 1962, Sept. 21, 1963, May 14 to June 1, 1964, and Sept. 6, 7, 1965 entire flow diverted to Surplus Canal. Maximum daily combined discharge (Jordan River and Surplus Canal), 4,510 ft^3/s June 1, 1984; minimum daily, 89 ft^3/s June 23, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 260 ft^3/s Apr. 9, gage height, 3.43 ft; minimum daily discharge, 39 ft^3/s May 15.
Maximum daily combined discharge during year (Jordan River and Surplus Canal), 1,370 ft^3/s May 13; minimum daily discharge, 248 ft^3/s Feb. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	132	146	140	135	131	123	150	170	157	136	100
2	144	131	150	140	134	131	119	147	156	153	138	102
3	143	132	140	164	134	130	127	153	155	150	139	99
4	143	132	141	194	135	130	140	142	155	148	138	100
5	146	130	138	206	135	130	118	144	152	143	133	102
6	149	128	138	197	135	131	116	148	138	131	127	100
7	182	127	138	195	135	128	138	148	120	127	126	102
8	173	126	138	195	148	128	119	142	112	123	126	102
9	157	124	138	193	139	127	135	141	107	122	132	103
10	155	123	138	189	137	127	158	141	103	118	131	104
11	158	124	138	189	145	134	132	144	99	121	131	106
12	166	123	145	159	140	130	138	145	103	119	122	107
13	162	122	141	138	137	128	137	136	106	116	124	106
14	204	120	138	138	136	128	138	62	98	118	103	110
15	173	112	138	138	135	128	138	39	112	125	99	117
16	172	114	138	138	135	125	139	84	133	128	94	117
17	153	121	138	137	135	124	140	119	136	129	96	116
18	160	119	137	137	142	124	142	108	149	130	101	114
19	148	118	137	137	135	131	134	94	143	131	101	112
20	146	116	137	137	132	128	82	92	146	129	103	113
21	157	116	137	136	132	121	64	85	142	126	102	115
22	153	117	136	137	132	129	66	81	143	127	107	118
23	147	120	136	137	132	130	114	84	138	131	108	119
24	141	119	139	137	138	118	169	86	134	127	104	119
25	139	119	138	136	144	118	164	89	132	126	107	118
26	139	122	139	136	133	117	166	122	131	126	105	120
27	136	128	139	137	146	115	166	156	149	127	107	117
28	135	128	139	136	133	114	177	176	172	126	111	114
29	135	128	139	137	---	114	164	165	172	132	120	122
30	134	127	139	136	---	115	151	158	162	134	113	136
31	133	---	139	135	---	117	---	171	---	134	108	---
TOTAL	4728	3698	4312	4761	3829	3881	4014	3852	4068	4034	3592	3330
MEAN	153	123	139	154	137	125	134	124	136	130	116	111
MAX	204	132	150	206	148	134	177	176	172	157	139	136
MIN	133	112	136	135	132	114	64	39	98	116	94	99
AC-FT	9380	7330	8550	9440	7590	7700	7960	7640	8070	8000	7120	6610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1994, BY WATER YEAR (WY)

MEAN	162	148	146	148	151	138	120	112	144	157	155	163
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	66.6	58.3	31.3	25.5	69.9	68.3	68.3	63.5
(WY)	1964	1964	1993	1993	1993	1962	1986	1964	1975	1961	1963	1963

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1944 - 1994	
ANNUAL TOTAL	42248.1		48099			
ANNUAL MEAN	116		132		145	
HIGHEST ANNUAL MEAN					223	1985
LOWEST ANNUAL MEAN					92.3	1964
HIGHEST DAILY MEAN	285	May 4	206	Jan 5	337	Jun 25 1952
LOWEST DAILY MEAN	6.6	May 16	39	May 15	.00	May 10 1952
ANNUAL SEVEN-DAY MINIMUM	7.2	May 14	85	May 14	.00	May 14 1964
ANNUAL RUNOFF (AC-FT)	83800		95400		105300	
10 PERCENT EXCEEDS	169		157		199	
50 PERCENT EXCEEDS	130		133		145	
90 PERCENT EXCEEDS	52		105		92	

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to September 1978, October 1980 to September 1981.
WATER TEMPERATURES: April 1975 to September 1978, October 1980 to September 1981.

INSTRUMENTATION.--Specific conductance recorder October 1974 to September 1981; temperature recorder April 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,330 microsiemens Mar. 29, 1977; minimum, 536 microsiemens June 25, 1978.
WATER TEMPERATURES: Maximum, 28.0°C Aug. 29, 30, 1975; minimum, 0.5°C Jan. 2, 3, 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV , 1993											
29...	1330	125	1720	8.0	4.5	9.5	3.6	9.9	656	70	240
MAR , 1994											
28...	1100	113	1700	8.0	10.5	12.5	1.4	9.8	657	K27	K25
MAY											
04...	1020	142	1350	7.9	17.5	13.5	2.9	7.5	655	230	170
JUN											
08...	1145	113	1120	8.0	19.0	15.5	8.5	8.6	656	280	250
AUG											
31...	1100	110	1820	8.1	23.5	19.5	24	7.4	649	--	400

DATE	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)
NOV , 1993											
29...	470	110	48	160	42	3	14	0	308	252	270
MAR , 1994											
28...	500	120	49	160	40	3	13	0	303	248	280
MAY											
04...	380	86	39	130	42	3	11	0	244	200	200
JUN											
08...	300	70	31	97	40	2	8.8	0	205	168	160
AUG											
31...	470	97	54	190	46	4	17	0	300	246	280

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)
NOV , 1993											
29...	220	0.50	21	1080	1020	1.47	365	4.53	4.53	0.070	4.60
MAR , 1994											
28...	230	0.50	18	1080	1040	1.47	330	4.20	4.20	0.100	4.30
MAY											
04...	170	0.50	14	804	789	1.09	308	3.27	3.27	0.130	3.40
JUN											
08...	140	0.40	15	650	639	0.88	198	2.96	2.96	0.040	3.00
AUG											
31...	270	0.60	23	1120	1090	1.52	333	1.49	1.49	0.110	1.60

K Results based on colony count outside acceptable range (non-ideal colony count).

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DISSOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
NOV , 1993										
29...	4.60	0.750	0.97	0.65	1.4	6.0	1.70	1.60	1.50	4.6
MAR , 1994										
28...	4.30	0.860	1.1	0.44	1.3	5.6	1.20	1.20	1.10	3.4
MAY										
04...	3.40	0.440	0.57	0.76	1.2	4.6	0.880	0.830	0.800	2.5
JUN										
08...	3.00	0.130	0.17	0.47	0.60	3.6	0.760	0.650	0.640	2.0
AUG										
31...	1.60	2.20	2.8	1.7	3.9	5.5	0.960	0.780	0.740	2.3

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)
NOV , 1993							
29...	1330	<10	49	<3	16	100	40
MAR , 1994							
28...	1100	<10	46	<3	26	100	37
JUN							
08...	1145	10	47	<1	13	64	17
AUG							
31...	1100	<10	61	<3	23	130	37

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
NOV , 1993						
29...	10	1	2	<1.0	1000	<6
MAR , 1994						
28...	10	1	2	<1.0	980	<6
JUN						
08...	7	<1	1	<1.0	640	4
AUG						
31...	10	1	<2	<1.0	1000	<6

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
NOV , 1993						
29...	1330	125	9.5	60	34	11
MAR , 1994						
28...	1100	113	12.5	67	29	8.8
MAY						
04...	1020	142	13.5	83	23	8.8
JUN						
08...	1145	113	15.5	89	28	8.5
AUG						
31...	1100	110	19.5	73	49	15

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 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	345	304	300	309	250	325	310	369	872	326	333	286
2	337	308	285	313	248	328	288	357	737	331	342	283
3	330	322	289	304	249	322	305	369	703	341	357	276
4	331	325	297	304	249	320	446	335	691	351	347	277
5	338	320	288	348	252	321	331	367	638	350	321	282
6	378	308	288	322	251	330	324	432	570	315	297	270
7	616	307	287	314	252	316	443	457	496	311	299	275
8	663	305	289	315	313	313	341	426	433	305	312	264
9	481	298	291	308	283	309	434	428	406	304	412	263
10	462	301	291	292	270	311	762	449	374	298	446	276
11	473	308	293	291	330	324	423	495	359	307	454	285
12	530	309	340	276	292	284	342	578	390	304	385	282
13	432	311	317	269	275	273	335	1370	438	296	466	279
14	741	311	301	268	275	270	338	912	422	303	347	277
15	525	314	302	270	274	264	340	537	390	299	328	272
16	459	309	308	266	272	252	347	595	398	299	307	276
17	368	310	304	264	280	249	350	535	345	302	279	281
18	430	314	303	263	352	250	362	418	334	301	256	270
19	348	309	302	262	311	313	398	347	317	313	259	264
20	337	306	302	260	289	311	426	329	336	303	265	267
21	446	310	302	257	291	268	465	289	323	283	261	275
22	409	327	300	261	295	304	514	273	340	290	258	282
23	369	364	297	260	292	336	563	301	322	316	259	292
24	320	349	298	258	319	281	494	329	314	292	258	292
25	312	336	290	256	365	274	448	374	305	293	275	293
26	310	320	302	256	313	260	466	408	308	293	254	298
27	305	316	305	263	383	252	496	462	317	307	263	284
28	303	319	308	260	351	250	509	755	339	304	290	281
29	304	325	306	261	---	252	443	719	350	312	340	346
30	307	328	305	259	---	255	368	664	322	319	304	570
31	304	---	308	253	---	273	---	845	---	336	301	---
TOTAL	12613	9493	9298	8662	8176	8990	12411	15524	12889	9604	9875	8718
MEAN	407	316	300	279	292	290	414	501	430	310	319	291
MAX	741	364	340	348	383	336	762	1370	872	351	466	570
MIN	303	298	285	253	248	249	288	273	305	283	254	263
AC-FT	25020	18830	18440	17180	16220	17830	24620	30790	25570	19050	19590	17290

CAL YR 1993 TOTAL 183098 MEAN 502 MAX 3080 MIN 250 AC-FT 363200
WTR YR 1994 TOTAL 126253 MEAN 346 MAX 1370 MIN 248 AC-FT 250400

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 NE¼SE¼NW¼ 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 sea level, 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 22	0045	*11	*1.22	No other peak greater than base discharge.			

Minimum daily discharge, 0.70 ft³/s, Sept. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.7	1.5	1.4	e1.2	2.2	4.2	6.6	3.5	1.8	1.1	.83
2	1.6	e1.6	1.5	1.5	e1.2	2.4	4.2	6.3	3.3	1.8	1.1	.81
3	1.6	e2.0	1.5	1.5	e1.3	2.7	4.5	6.9	3.2	1.8	1.0	.77
4	1.6	e1.9	1.5	1.5	e1.3	2.9	5.0	6.5	3.2	1.7	1.0	.80
5	1.5	e1.8	1.5	1.6	e1.4	2.9	4.9	6.3	3.1	1.7	.96	.79
6	1.6	e1.8	1.5	1.4	1.5	3.1	4.8	6.3	3.0	1.7	.95	.81
7	2.2	e1.8	1.5	1.6	1.5	3.1	5.0	6.3	3.0	1.7	.94	.80
8	2.0	e1.8	1.5	1.8	1.6	3.0	4.9	6.2	3.0	1.7	.99	.75
9	2.0	e1.8	1.6	1.5	1.5	3.0	5.1	6.1	2.9	1.6	1.1	.72
10	1.9	e1.9	1.6	1.5	1.5	2.9	5.5	6.0	2.8	1.6	1.0	.72
11	1.9	e2.0	1.6	1.5	1.5	3.2	6.0	5.8	2.8	1.5	1.1	.73
12	2.2	e1.9	1.5	1.5	e1.4	3.2	6.8	5.7	2.7	1.5	1.0	.70
13	2.0	e1.9	e1.4	1.5	e1.4	3.2	7.0	5.9	2.6	1.5	1.1	.71
14	2.2	e1.8	e1.5	1.5	1.5	3.3	7.3	5.5	2.6	1.5	1.0	.79
15	2.1	e1.8	e1.5	1.5	1.5	3.4	7.2	5.3	2.6	1.4	.96	.82
16	2.1	e2.0	1.6	1.5	1.5	3.6	7.6	5.1	2.6	1.4	.92	.84
17	2.0	e2.0	e1.5	1.5	1.6	3.8	7.9	5.0	2.5	1.4	.89	.83
18	2.1	e1.9	e1.4	1.4	e1.6	3.8	8.9	4.8	2.4	1.4	.90	.80
19	2.0	e1.8	e1.4	1.4	1.6	3.8	9.9	4.7	2.3	1.3	.91	.79
20	2.0	1.8	e1.4	1.4	e1.5	3.7	10	4.5	2.3	1.3	.89	.82
21	1.9	2.1	e1.4	1.4	1.5	3.5	10	4.4	2.3	1.3	.87	.86
22	1.9	1.8	e1.4	1.4	e1.4	e3.4	10	4.2	2.3	1.2	.83	.84
23	1.9	1.8	1.4	1.4	e1.4	e3.3	9.8	4.2	2.2	1.2	.84	.84
24	1.9	1.7	1.5	1.5	1.6	3.5	9.1	4.0	2.1	1.2	.81	.82
25	1.9	e1.3	1.4	1.5	1.9	3.6	8.5	3.9	2.1	1.2	.80	.80
26	1.8	e1.4	1.4	1.5	2.0	3.8	8.0	3.8	2.0	1.2	.79	.80
27	1.8	1.5	1.4	1.5	2.3	3.8	7.6	3.8	2.0	1.2	.86	.81
28	1.8	1.7	1.5	1.5	2.1	3.8	7.5	3.8	1.9	1.1	.84	.80
29	1.9	1.6	1.4	e1.4	---	3.8	7.2	3.6	1.9	1.1	.97	.96
30	e1.6	1.6	1.4	e1.3	---	3.8	6.8	3.5	1.9	1.1	.86	1.1
31	e1.6	---	1.4	e1.3	---	3.9	---	3.7	---	1.1	.84	---
TOTAL	58.2	53.5	45.6	45.7	43.3	103.4	211.2	158.7	77.1	44.2	29.12	24.26
MEAN	1.88	1.78	1.47	1.47	1.55	3.34	7.04	5.12	2.57	1.43	.94	.81
MAX	2.2	2.1	1.6	1.8	2.3	3.9	10	6.9	3.5	1.8	1.1	1.1
MIN	1.5	1.3	1.4	1.3	1.2	2.2	4.2	3.5	1.9	1.1	.79	.70
AC-FT	115	106	90	91	86	205	419	315	153	88	58	48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1994, BY WATER YEAR (WY)

MEAN	1.95	2.01	1.92	1.95	2.34	4.39	9.06	13.1	6.71	3.27	2.13	1.83
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	.68	.93	.91	.83	1.00	1.06	1.79	1.55	.95	.60	.44	.47
(WY)	1991	1991	1964	1964	1964	1964	1990	1990	1992	1990	1990	1990

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1964 - 1994	
ANNUAL TOTAL	1818.59		894.28			
ANNUAL MEAN	4.98		2.45		4.23	
HIGHEST ANNUAL MEAN					12.5	1983
LOWEST ANNUAL MEAN					1.12	1990
HIGHEST DAILY MEAN	44	May 7	10	Apr 20	95	May 28 1983
LOWEST DAILY MEAN	.80	Jan 5	.70	Sep 12	.38	Aug 9 1990
ANNUAL SEVEN-DAY MINIMUM	.89	Jan 1	.73	Sep 8	.39	Sep 10 1990
ANNUAL RUNOFF (AC-FT)	3610		1770		3060	
10 PERCENT EXCEEDS	11		5.2		9.5	
50 PERCENT EXCEEDS	2.0		1.6		2.4	
90 PERCENT EXCEEDS	1.2		.86		1.1	

e Estimated

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1964 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: April 1964 to September 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT , 1993										
05...	1215	1.6	670	8.5	24.5	11.5	0.20	8.7	625	K19
JAN , 1994										
14...	1115	1.4	680	8.4	6.0	3.0	0.20	13.1	632	100
MAR										
29...	1045	3.7	610	8.4	12.5	6.0	1.8	10.2	631	K1
MAY										
03...	1030	7.6	515	8.6	8.5	7.0	11	9.9	626	K5
JUL										
18...	1145	1.4	590	8.4	28.0	14.0	0.20	8.2	626	--
AUG										
30...	1100	0.87	620	8.4	23.0	13.5	0.10	8.8	626	27

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3
OCT , 1993										
05...	290	340	91	27	13	8	0.3	1.1	5	283
JAN , 1994										
14...	K3	350	94	27	13	8	0.3	1.0	14	256
MAR										
29...	K2	300	84	23	12	8	0.3	0.80	6	257
MAY										
03...	160	250	72	18	9.0	7	0.2	0.80	14	215
JUL										
18...	120	290	74	25	12	8	0.3	0.80	4	256
AUG										
30...	170	310	78	27	12	8	0.3	1.1	6	255

DATE	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
OCT , 1993										
05...	240	100	13	0.20	11	412	401	0.56	1.82	<0.010
JAN , 1994										
14...	234	110	12	0.10	10	420	408	0.57	1.62	<0.010
MAR										
29...	221	96	12	0.10	11	347	371	0.47	3.44	<0.010
MAY										
03...	200	61	9.2	0.10	9.6	317	300	0.43	6.50	<0.010
JUL										
18...	216	93	11	0.10	11	304	357	0.41	1.18	<0.010
AUG										
30...	219	100	12	0.10	12	364	374	0.50	0.86	<0.010

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT , 1993										
05...	<0.050	<0.010	--	--	<0.20	--	0.030	0.040	0.040	0.12
JAN , 1994										
14...	<0.050	0.010	0.01	--	<0.20	--	0.020	0.010	0.020	0.06
MAR										
29...	<0.050	0.020	0.03	--	<0.20	--	0.030	0.020	0.020	0.06
MAY										
03...	<0.050	0.020	0.03	0.28	0.30	0.30	0.080	0.030	0.030	0.09
JUL										
18...	<0.050	0.030	0.04	--	<0.20	--	0.020	<0.010	0.010	0.03
AUG										
30...	<0.050	0.030	0.04	--	<0.20	--	0.020	0.030	0.020	0.06

K Results based on colony count outside acceptable range (non-ideal colony county).

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	BARIUM, DISSOLVED (UG/L AS BA)	COBALT, DISSOLVED (UG/L AS CO)	IRON, DISSOLVED (UG/L AS FE)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT , 1993							
05...	1215	<10	56	<3	12	<4	5
JAN , 1994							
14...	1115	10	54	<3	<3	6	3
MAY							
03...	1030	10	45	4	13	6	4
JUL							
18...	1145	<10	51	<3	4	9	1

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)
OCT , 1993						
05...	<10	<1	<1	<1.0	470	<6
JAN , 1994						
14...	<10	<1	<1	<1.0	510	<6
MAY						
03...	10	<1	<1	<1.0	310	<6
JUL						
18...	<10	<1	<1	<1.0	420	<6

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND	TEMPERATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
OCT , 1993						
05...	1215	1.6	11.5	--	3	0.01
JAN , 1994						
14...	1115	1.4	3.0	13	19	0.07
MAR						
29...	1045	3.7	6.0	35	53	0.53
MAY						
03...	1030	7.6	7.0	53	88	1.8
JUL						
18...	1145	1.4	14.0	82	4	0.02

10172700 VERNON CREEK NEAR VERNON, UT

LOCATION.--Lat 39°58'46", long 112°22'46", in NE¼SW¼SW¼ 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.

DRAINAGE AREA.--25.0 mi².

PERIOD OF RECORD.--June 1958 to current year.

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

GAGE.--Water-stage recorder. Elevation of gage is 6,200 ft above sea level, from AMS topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 825 ft³/s Aug. 27, 1972, gage height, 5.70 ft, based on slope-area measurement; minimum, 0.41 ft³/s Nov. 20, 1961.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug. 14	2000	*7.1	*1.13				

Minimum daily discharge, 1.3 ft³/s several days during September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.4	2.4	2.2	e2.0	2.3	2.4	2.4	2.1	1.7	1.8	1.5
2	2.5	2.4	2.4	2.2	e2.0	2.4	2.4	2.4	2.1	1.7	1.8	1.5
3	2.5	2.4	2.3	2.2	e2.1	2.4	2.4	2.5	2.1	1.6	1.8	1.5
4	2.5	2.4	2.4	2.2	2.2	2.4	2.6	2.4	2.1	1.6	1.7	1.5
5	2.5	2.4	2.4	2.2	2.2	2.4	2.6	2.4	2.1	1.5	1.7	1.5
6	2.6	2.4	2.4	2.2	2.2	2.4	2.6	2.3	2.0	1.6	1.7	1.6
7	2.6	2.4	2.4	e2.1	2.2	2.4	2.6	2.3	2.0	1.6	1.7	1.5
8	2.6	2.4	2.4	2.2	2.2	2.2	2.6	2.4	2.1	1.6	1.7	1.3
9	2.6	2.4	2.4	2.2	e2.1	2.2	2.6	2.2	2.0	1.6	2.1	1.4
10	2.6	2.4	2.4	2.2	2.0	2.2	2.6	2.1	2.0	1.5	2.0	1.4
11	2.7	2.4	2.3	2.2	2.1	2.7	2.6	2.1	1.9	1.6	1.8	1.4
12	2.6	2.4	2.4	2.2	e1.9	2.4	2.5	2.1	1.9	1.6	2.1	1.4
13	2.6	2.4	e2.3	2.2	e2.0	2.4	2.5	2.2	1.8	1.6	1.8	1.5
14	2.6	2.4	2.4	2.2	2.1	2.4	2.5	2.1	1.8	1.6	2.4	1.5
15	2.6	2.4	2.4	2.2	2.1	2.4	2.5	2.1	1.8	1.6	2.1	1.5
16	2.6	2.4	2.4	2.2	2.0	2.4	2.5	2.1	1.8	1.6	1.8	1.4
17	2.8	2.4	e2.2	2.2	2.5	2.5	2.4	2.1	1.8	1.7	1.8	1.3
18	3.0	2.4	e2.3	2.2	2.5	2.5	2.5	2.1	1.8	1.7	1.9	1.3
19	2.7	2.3	e2.2	2.2	2.3	2.6	2.5	2.1	1.8	1.7	2.1	1.4
20	2.6	2.3	e2.2	2.2	2.2	2.5	2.5	2.2	1.8	1.7	1.8	1.5
21	2.6	2.4	e2.2	2.2	2.2	2.4	2.5	2.1	1.8	1.7	1.8	1.4
22	2.6	2.5	e2.2	2.2	2.1	2.4	2.5	2.1	1.8	1.7	1.8	1.4
23	2.5	2.4	e2.3	2.2	e2.0	2.4	2.4	2.1	1.7	1.7	1.8	1.4
24	2.4	2.3	e2.3	2.2	2.2	2.4	2.4	2.0	1.8	1.8	1.8	1.4
25	2.4	e2.1	2.3	2.2	2.3	2.4	2.5	2.0	1.7	1.8	1.8	1.3
26	2.5	e2.2	2.4	2.2	2.4	2.4	2.6	2.0	1.7	1.8	1.7	1.3
27	2.6	e2.4	2.4	2.2	2.5	2.4	2.6	2.1	1.7	1.8	1.8	1.3
28	2.5	2.5	2.3	2.2	2.3	2.4	2.6	2.1	1.7	1.8	1.8	1.4
29	2.4	2.4	2.2	e2.1	---	2.4	2.5	2.1	1.7	1.8	1.8	2.0
30	2.4	2.4	e2.2	e2.1	---	2.4	2.5	2.0	1.7	1.8	1.6	1.6
31	2.4	---	2.2	e2.0	---	2.4	---	2.3	---	1.8	1.6	---
TOTAL	79.6	71.4	72.0	67.7	60.9	74.5	75.5	67.5	56.1	51.9	56.9	43.4
MEAN	2.57	2.38	2.32	2.18	2.17	2.40	2.52	2.18	1.87	1.67	1.84	1.45
MAX	3.0	2.5	2.4	2.2	2.5	2.7	2.6	2.5	2.1	1.8	2.4	2.0
MIN	2.4	2.1	2.2	2.0	1.9	2.2	2.4	2.0	1.7	1.5	1.6	1.3
AC-FT	158	142	143	134	121	148	150	134	111	103	113	86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1994, BY WATER YEAR (WY)

MEAN	3.10	3.02	2.91	2.89	2.98	3.39	5.72	6.77	4.17	3.33	3.06	3.01
MAX	9.08	8.89	7.93	7.92	7.65	9.30	21.6	40.0	19.3	12.3	10.1	9.61
(WY)	1984	1985	1985	1985	1985	1985	1983	1983	1983	1983	1983	1983
MIN	1.06	1.20	1.23	1.08	1.32	1.42	1.42	1.20	1.20	1.05	1.01	1.11
(WY)	1960	1960	1960	1961	1961	1961	1961	1961	1961	1961	1961	1959

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1959 - 1994	
ANNUAL TOTAL	1194.9		777.4			
ANNUAL MEAN	3.27		2.13		3.70	
HIGHEST ANNUAL MEAN					12.0	1983
LOWEST ANNUAL MEAN					1.26	1961
HIGHEST DAILY MEAN	10	May 15	3.0	Oct 18	70	Apr 24 1983
LOWEST DAILY MEAN	1.2	Jan 3	1.3	Sep 8	.84	Dec 18 1967
ANNUAL SEVEN-DAY MINIMUM	1.3	Feb 12	1.4	Sep 21	.93	Jul 21 1961
ANNUAL RUNOFF (AC-FT)	2370		1540		2680	
10 PERCENT EXCEEDS	6.3		2.5		7.4	
50 PERCENT EXCEEDS	2.5		2.2		2.4	
90 PERCENT EXCEEDS	1.4		1.6		1.4	

e Estimated

10172726 FAUST CREEK BELOW TOOELE CITY WELL NEAR VERNON, UT

LOCATION.--Lat 40°08'51", long 112°26'39", in SE¼NW¼SE¼ sec. 6, T. 8 S., R. 5 W., Tooele County, Hydrologic Unit 16020304, on right bank, 100 ft below Tooele City well, 2.0 mi southwest of Faust, and 4.0 mi north of Vernon.

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

GAGE.--Water-stage recorder. Elevation of gage is 5,295 ft above sea level, from topographic map.

REMARKS.--Records poor. Gage installed to determine discharge from pumped well.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 20 ft^3/s May 13, 20, 1994; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 20 ft^3/s May 13, 20; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	.00	.00	.00	.00	.00	.32	.72	.04	3.5	9.5	12
2	4.8	2.0	.00	.00	.00	.00	.14	.72	3.8	4.3	5.6	5.9
3	.24	.00	.00	.00	.00	.00	.03	.72	5.8	8.2	7.5	9.2
4	.20	.00	.00	.00	.00	.00	.37	.75	3.7	4.9	13	5.9
5	.00	.00	.00	.00	.00	.00	.48	.75	6.9	8.0	7.1	6.4
6	.51	.00	.00	.00	.00	.00	.24	.77	3.5	6.0	3.7	10
7	.00	.00	.00	.00	.00	.00	.21	.55	6.9	9.6	3.7	12
8	.00	.00	.00	.00	.00	.00	.23	.01	7.1	9.4	3.5	12
9	.00	.00	.00	.00	.00	.00	.22	.00	7.2	9.0	2.8	13
10	.00	.00	.00	.00	.00	.00	.20	1.7	8.9	9.2	.07	12
11	1.5	.00	.00	.00	.00	.00	.20	.71	12	9.4	.06	12
12	.00	.00	.00	.00	.00	.00	.20	7.9	13	3.5	1.8	11
13	.00	.00	.00	.00	.00	.00	.18	20	9.5	.00	3.1	10
14	.00	.00	.00	.00	.00	.00	.16	13	7.9	.00	3.1	11
15	.00	.00	.00	.00	.00	.00	.29	11	9.6	3.0	3.1	12
16	.00	.00	.00	.00	.00	.00	.27	11	5.7	8.1	6.1	12
17	.00	.00	.00	.00	.00	.00	.32	6.1	8.8	7.5	9.5	12
18	.00	.00	.00	.00	.00	.00	.30	12	12	7.9	5.9	15
19	.00	.00	.00	.00	.00	.00	.03	15	5.2	5.8	3.8	14
20	.00	.00	.00	.00	.00	.00	.12	19	2.6	7.2	4.3	11
21	.57	.00	.00	.00	.00	.00	.22	20	7.2	8.7	4.1	.14
22	.00	.00	.00	.00	.00	.00	.24	19	9.9	6.3	7.4	.06
23	.00	.00	.00	.00	.00	.85	.22	19	7.2	.03	5.0	.04
24	.00	.00	.00	.00	.00	.03	.05	11	8.6	.00	6.3	.06
25	.00	.00	.00	.00	.00	.00	.16	7.7	6.4	4.5	4.8	.02
26	.00	.00	.00	.00	.00	.00	.15	3.3	6.6	5.2	6.2	1.7
27	2.2	.00	.00	.00	.00	.00	.15	2.1	7.0	4.1	9.6	.03
28	.00	.00	.00	.00	.00	.00	.35	.06	7.5	7.0	15	.00
29	.00	.00	.00	.00	---	.00	.69	2.4	8.3	7.8	11	.00
30	.00	.00	.00	.00	---	.00	.70	3.7	7.9	13	8.1	.01
31	.00	---	.00	.00	---	.19	---	3.1	---	15	9.6	---
TOTAL	18.82	2.00	0.00	0.00	0.00	1.07	7.44	213.76	216.74	196.13	184.33	220.46
MEAN	.61	.067	.000	.000	.000	.035	.25	6.90	7.22	6.33	5.95	7.35
MAX	8.8	2.0	.00	.00	.00	.85	.70	20	13	15	15	15
MIN	.00	.00	.00	.00	.00	.00	.03	.00	.04	.00	.06	.00
AC-FT	37	4.0	.00	.00	.00	2.1	15	424	430	389	366	437

CAL YR 1993 TOTAL 81.10 MEAN .22 MAX 8.8 MIN .00 AC-FT 161
WTR YR 1994 TOTAL 1060.75 MEAN 2.91 MAX 20 MIN .00 AC-FT 2100

10172727 FAUST CREEK NEAR VERNON, UT

LOCATION.--Lat 40°09'38", long 112°25'49", in NE¼SE¼SW¼ sec. 32, T. 7 S., R. 5 W., Tooele County, Hydrologic Unit 16020304, on left bank 30 ft west of State Highway 36, approximately 1 mi south of Faust, and 4.5 mi north of Vernon.

DRAINAGE AREA.--145 mi².

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

GAGE.--Water-stage recorder.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22 ft³/s Mar. 10, 1993, gage height, 5.96 ft, maximum gage height, 6.08 ft, Nov. 2, 1992 (backwater from aquatic growth); minimum daily discharge, 0.4 ft³/s, July 15, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.6 ft³/s Apr. 27, gage height, 6.01 ft; minimum daily discharge, 0.40 ft³/s July 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	.91	e.94	e.86	e.66	1.5	2.8	6.7	2.8	5.1	5.2	5.9
2	.75	.91	e.73	e.85	e.62	1.4	2.9	6.5	1.7	3.6	3.3	4.7
3	.81	.91	e1.1	e.93	e.62	1.5	3.1	6.2	2.2	2.2	2.9	4.1
4	.79	.91	e.75	e.96	e.62	1.5	3.3	5.9	2.4	3.6	5.3	4.1
5	.82	.89	e.90	e.97	e.70	1.5	3.4	5.6	2.6	3.2	6.3	4.1
6	.86	.96	e.77	e.95	e.90	1.5	4.2	5.4	2.9	3.4	5.2	4.0
7	.89	.98	e.95	e1.4	e1.0	1.5	5.4	5.1	2.8	3.8	5.8	6.7
8	.86	.95	e.78	e1.3	e.86	1.5	5.6	4.6	3.3	5.3	6.2	6.3
9	.86	.92	e.90	e.97	e.88	1.6	6.9	3.5	3.9	4.5	9.1	6.8
10	.84	.76	e1.0	e.92	e.90	1.6	6.7	3.0	4.1	3.5	8.8	6.7
11	.87	.79	e1.0	e.90	e.80	2.0	6.7	3.0	5.1	3.1	5.4	6.3
12	.88	.79	e.91	e.90	e.64	1.8	6.1	3.5	5.4	3.0	2.7	6.5
13	.84	.77	e.85	e1.0	e.70	1.7	6.1	5.5	5.7	1.8	3.4	6.3
14	.91	.73	e.70	e1.1	e.80	1.8	5.9	8.6	4.3	.69	4.5	6.4
15	.95	e.87	e.80	e1.0	e.95	1.8	5.7	4.9	5.2	.40	5.4	6.5
16	.98	e.89	e.87	e.94	e1.1	1.8	5.8	6.0	5.0	.42	5.2	6.9
17	1.2	e.87	e.90	e.90	e1.2	1.8	5.4	6.3	3.7	1.3	5.3	6.5
18	1.2	e.74	e.80	e.84	e1.0	1.9	5.1	6.5	5.7	2.2	5.6	7.0
19	.96	e.89	e.70	e.82	e.84	2.2	4.9	6.1	4.2	2.4	6.0	9.7
20	.91	e.86	e.65	e.80	e.80	2.2	4.0	8.1	2.9	2.0	5.5	8.6
21	.91	e.82	e.60	e.90	e.78	2.1	3.7	8.1	2.0	2.4	6.1	7.5
22	.91	e.81	e.60	e1.1	e.74	2.2	3.8	7.4	3.5	3.4	3.4	3.3
23	.90	e.75	e.60	e1.2	e.84	2.3	4.2	7.4	3.8	2.9	4.8	2.1
24	.87	e.70	e.62	e1.1	e.90	2.4	4.1	7.4	4.2	1.2	5.4	1.7
25	.88	e.60	e.60	e1.1	e1.0	2.5	3.9	4.9	3.7	.76	5.5	1.5
26	.89	e.50	e.60	e1.0	e1.2	2.4	4.5	4.9	3.6	.89	4.8	1.3
27	.89	e.54	e.66	e.90	1.3	2.5	6.9	4.2	3.5	1.7	4.5	1.3
28	.95	e.58	e.72	e.80	1.5	2.5	7.1	3.1	4.0	1.8	5.9	1.2
29	.90	e.64	e.82	e.80	---	2.6	6.5	2.5	4.5	2.6	6.3	1.8
30	.89	e.73	e.91	e.74	---	2.6	6.3	2.1	5.0	3.9	4.8	2.3
31	.93	---	e.95	e.70	---	2.7	---	3.5	---	4.6	4.9	---
TOTAL	27.75	23.97	24.68	29.65	24.85	60.9	151.0	166.5	113.7	81.66	163.5	148.1
MEAN	.90	.80	.80	.96	.89	1.96	5.03	5.37	3.79	2.63	5.27	4.94
MAX	1.2	.98	1.1	1.4	1.5	2.7	7.1	8.6	5.7	5.3	9.1	9.7
MIN	.65	.50	.60	.70	.62	1.4	2.8	2.1	1.7	.40	2.7	1.2
AC-FT	55	48	49	59	49	121	300	330	226	162	324	294

CAL YR 1993 TOTAL 812.57 MEAN 2.23 MAX 18 MIN .11 AC-FT 1610
WTR YR 1994 TOTAL 1016.26 MEAN 2.78 MAX 9.7 MIN .40 AC-FT 2020

e Estimated

10172765 CLOVER CREEK ABOVE BIG HOLLOW, NEAR CLOVER, UT

LOCATION.--Lat 40°20'06", long 112°31'39", in NE¼SE¼SW¼ sec. 33, T. 55 S., R. 6 W., Tooele County, Hydrologic Unit 16020304, on left bank 60 ft south of State Highway 199 at milepost 15.9, and 4.6 mi west of St. John.

DRAINAGE AREA.--6.71 mi².

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

GAGE.--Water-stage recorder and sharp crested weir. Elevation of gage is 5,660 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33 ft³/s May 21, 1993, gage height, 2.05 ft; minimum daily discharge, 0.74 ft³/s Jan. 5, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12 ft³/s Apr. 19, May 13, gage height, 1.58 ft; minimum daily discharge, 1.5 ft³/s Feb. 21-26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.3	e2.5	e2.4	e1.7	e1.6	3.2	3.5	6.0	3.5	2.7	2.3
2	3.7	3.3	e2.5	e2.5	e1.8	e1.6	2.9	3.5	5.8	3.5	2.7	2.3
3	3.7	3.1	e2.5	e2.5	e1.8	e1.6	3.0	3.7	5.7	3.5	2.7	2.3
4	3.6	3.1	e2.6	e2.6	e1.9	e1.6	3.4	4.4	5.6	3.5	2.7	2.3
5	3.5	3.2	e2.6	e2.5	e2.0	e1.7	3.1	5.8	5.2	3.5	2.7	2.3
6	3.5	3.3	e2.6	e2.4	e2.1	e2.1	2.9	7.5	5.0	3.5	2.7	2.3
7	3.5	3.3	e2.8	e2.3	e2.1	e2.5	2.8	8.2	4.8	3.4	3.0	2.3
8	3.5	3.3	3.1	e2.4	e2.0	2.9	2.7	7.0	4.6	3.3	3.0	2.2
9	3.5	3.3	3.2	e2.5	e1.9	3.2	2.7	6.4	4.4	3.3	2.7	2.2
10	3.5	3.3	3.3	e2.3	e2.0	3.4	2.6	7.4	4.2	3.3	2.7	2.2
11	3.5	3.3	3.3	e2.4	e1.9	3.6	2.8	8.9	e4.1	3.3	2.7	2.2
12	3.5	3.3	3.3	e2.5	e1.8	3.6	3.9	10	e4.0	3.3	2.6	2.2
13	3.4	3.3	e2.9	e2.6	e1.7	3.7	4.5	11	e3.9	3.3	2.5	2.2
14	3.4	3.3	e2.9	e2.5	e1.7	3.9	5.2	10	e3.9	3.3	2.5	2.2
15	3.5	3.2	e2.9	e2.4	e1.7	3.9	5.1	9.0	e3.9	3.3	2.5	2.2
16	3.5	3.1	e2.7	e2.3	e1.8	3.1	6.1	9.7	3.9	e3.3	2.5	2.2
17	3.5	3.1	e2.7	e2.3	e1.9	1.9	7.5	8.0	3.9	e3.2	2.5	2.2
18	3.5	3.1	e2.6	e2.3	e1.8	2.1	8.2	6.7	3.9	e3.2	2.5	2.2
19	3.5	3.1	e2.6	e2.3	e1.7	2.1	10	6.0	e3.8	e3.1	2.5	2.2
20	3.5	3.0	e2.4	e2.2	e1.6	2.0	11	5.5	e3.8	e3.1	2.5	2.2
21	3.5	e2.8	e2.3	e2.1	e1.5	1.9	10	5.1	e3.7	e3.0	2.5	2.2
22	3.5	e2.7	e2.2	e2.1	e1.5	2.0	11	5.1	e3.7	e3.0	2.5	2.2
23	3.5	e2.5	e2.1	e2.2	e1.5	2.1	8.9	5.2	e3.6	e3.0	2.5	2.2
24	3.5	e2.3	e2.2	e2.3	e1.5	2.0	6.8	5.3	e3.6	e2.9	2.4	2.2
25	3.5	e2.2	e2.2	e2.4	e1.5	1.9	5.5	5.6	e3.5	e2.9	2.3	2.2
26	3.3	e2.3	e2.3	e2.3	e1.5	1.8	4.8	5.8	3.5	e2.9	2.3	2.2
27	3.3	e2.3	e2.3	e2.2	e1.6	1.8	4.3	5.7	3.5	e2.8	2.3	2.2
28	3.3	e2.3	e2.3	e2.1	e1.6	2.0	4.0	5.8	3.5	e2.8	2.3	2.2
29	3.3	e2.4	e2.4	e2.0	---	2.1	3.7	5.6	3.5	e2.8	2.3	2.3
30	3.3	e2.4	e2.6	e1.9	---	2.2	3.5	5.4	3.5	e2.7	2.3	2.3
31	3.3	---	e2.4	e1.8	---	2.5	---	5.7	---	e2.7	2.3	---
TOTAL	107.8	88.5	81.3	71.6	49.1	74.4	156.1	202.5	126.0	98.2	78.9	66.9
MEAN	3.48	2.95	2.62	2.31	1.75	2.40	5.20	6.53	4.20	3.17	2.55	2.23
MAX	3.7	3.3	3.3	2.6	2.1	3.9	11	11	6.0	3.5	3.0	2.3
MIN	3.3	2.2	2.1	1.8	1.5	1.6	2.6	3.5	3.5	2.7	2.3	2.2
AC-FT	214	176	161	142	97	148	310	402	250	195	156	133

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1994, BY WATER YEAR (WY)

MEAN	2.21	1.95	1.66	1.46	1.63	2.81	4.73	7.68	7.05	4.49	3.25	2.50
MAX	4.14	3.40	3.08	2.48	3.65	7.47	10.8	19.9	20.3	11.0	7.20	5.23
(WY)	1987	1987	1987	1987	1986	1986	1986	1993	1986	1986	1986	1986
MIN	1.00	1.02	.82	.84	.86	.90	1.83	1.89	2.28	1.64	1.32	1.04
(WY)	1991	1993	1993	1993	1991	1991	1990	1990	1992	1990	1990	1990

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1986 - 1994	
ANNUAL TOTAL	2301.52		1201.3			
ANNUAL MEAN	6.31		3.29		3.46	
HIGHEST ANNUAL MEAN					7.83	1986
LOWEST ANNUAL MEAN					1.51	1990
HIGHEST DAILY MEAN	31	May 21	11	Apr 20	31	Jun 1 1986
LOWEST DAILY MEAN	.74	Jan 5	1.5	Feb 21	.74	Jan 5 1993
ANNUAL SEVEN-DAY MINIMUM	.79	Jan 1	1.5	Feb 20	.78	Dec 31 1992
ANNUAL RUNOFF (AC-FT)	4570		2380		2510	
10 PERCENT EXCEEDS	14		5.4		6.9	
50 PERCENT EXCEEDS	4.3		2.8		2.3	
90 PERCENT EXCEEDS	.96		2.0		1.0	

e Estimated

10172791 SETTLEMENT CREEK ABOVE RESERVOIR NEAR TOOELE, UT

LOCATION.--Lat 40°30'20", long 112°17'23", in SE¼NW¼NW¼, sec. 3, T. 4 S., R. 4 W., Tooele County, Hydrologic Unit 16020304, on right bank 0.2 mi upstream from road crossing at upstream end of reservoir.

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

GAGE.--Water-stage recorder. Elevation of gage is 5,380 ft above sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 33 ft³/s May 21, 22, 26, 27, 1993; minimum discharge 0.13 ft³/s Aug. 19, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15 ft³/s May 17, gage height, 4.46 ft; minimum discharge, 0.13 ft³/s Aug. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.1	e.85	.56	.49	.87	.57	1.2	6.3	1.2	1.0	.67
2	2.0	1.1	e.90	.49	.47	.87	.54	1.2	6.0	1.2	1.0	.64
3	1.6	1.1	e.95	.46	.50	.84	.70	1.1	6.1	1.2	1.0	.68
4	1.1	1.5	e1.0	.43	.46	.85	.84	1.2	6.1	1.2	1.0	.71
5	1.0	1.6	e.90	.46	.42	.86	.87	1.4	5.9	1.5	1.0	.77
6	1.3	1.5	e1.0	.50	.37	.82	.88	1.6	5.5	1.7	1.0	.74
7	1.8	1.6	e1.2	.52	.41	.81	1.1	1.9	5.2	1.7	1.0	.70
8	1.6	1.4	1.4	.52	.64	.85	.88	2.0	4.7	1.7	1.2	.74
9	1.5	1.4	1.4	.57	.51	.76	.96	2.1	4.4	1.7	1.1	.83
10	1.5	1.4	1.2	.60	.49	.66	1.2	2.1	4.0	1.7	1.2	.81
11	1.6	1.5	1.3	.60	.56	.91	.96	2.2	3.5	1.7	1.1	.80
12	1.6	1.4	e1.1	.62	.46	.78	.84	2.2	3.1	1.7	1.1	.80
13	1.5	1.6	e.90	.63	.44	.70	.86	2.3	2.9	1.6	1.1	.80
14	1.9	1.4	e.80	.64	.47	.58	.80	2.4	2.8	1.6	1.1	.83
15	1.6	1.3	e.85	.68	.47	.57	.84	5.1	2.7	1.6	1.1	.83
16	1.5	1.1	e.90	.69	.43	.59	.85	10	2.5	1.5	1.1	.84
17	2.3	.97	e.80	.69	.73	.56	.87	14	2.3	1.3	1.1	.80
18	1.6	.93	e.70	.73	.81	.59	.93	10	2.1	1.1	1.1	.79
19	1.4	.93	e.70	.75	.69	.68	.94	9.9	2.0	1.1	.81	.80
20	1.3	.86	e.70	.73	.70	.57	.88	9.3	1.9	1.1	e.80	.78
21	1.3	.77	e.70	.73	.70	.46	.84	8.2	1.8	1.2	e.80	.76
22	1.3	e.84	e.70	.71	.74	.58	.84	7.3	1.7	1.1	e.82	.73
23	1.3	e.90	e.70	.74	.75	.57	.94	5.8	1.6	1.1	e.82	.74
24	1.3	e.80	e.70	.78	.76	.56	1.2	5.1	1.6	1.0	e.84	.75
25	1.3	e.70	e.70	.77	.86	.56	1.1	4.6	1.5	.98	e.86	.78
26	1.3	e.60	e.80	.78	.86	.51	1.2	4.5	1.3	1.0	.85	.76
27	1.3	e.65	.91	.77	.94	.44	1.4	4.7	1.4	1.0	.81	.76
28	1.3	e.70	.77	.67	.92	.43	1.4	5.2	1.3	.97	.76	.78
29	1.3	e.75	.73	.65	---	.43	1.2	5.8	1.3	.98	.75	.85
30	1.3	e.80	.70	.56	---	.48	1.2	6.1	1.2	.97	.71	.74
31	1.3	---	.64	.53	---	.51	---	6.7	---	.97	.70	---
TOTAL	45.9	33.20	27.60	19.56	17.05	20.25	28.63	147.2	94.7	40.37	29.63	23.01
MEAN	1.48	1.11	.89	.63	.61	.65	.95	4.75	3.16	1.30	.96	.77
MAX	2.3	1.6	1.4	.78	.94	.91	1.4	14	6.3	1.7	1.2	.85
MIN	1.0	.60	.64	.43	.37	.43	.54	1.1	1.2	.97	.70	.64
AC-FT	91	66	55	39	34	40	57	292	188	80	59	46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1994, BY WATER YEAR (WY)

MEAN	1.05	.90	.74	.65	.66	.79	1.02	5.28	6.44	2.48	1.40	.89
MAX	1.48	1.16	1.00	.96	.94	1.06	1.40	15.6	14.3	5.75	2.93	1.24
(WY)	1994	1992	1989	1989	1989	1989	1989	1993	1993	1993	1991	1989
MIN	.73	.62	.47	.45	.49	.62	.68	2.15	1.93	.63	.63	.52
(WY)	1991	1993	1993	1993	1993	1991	1991	1990	1992	1992	1992	1991

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1989 - 1994	
ANNUAL TOTAL	1358.89		527.10			
ANNUAL MEAN	3.72		1.44		1.86	
HIGHEST ANNUAL MEAN					3.61	1993
LOWEST ANNUAL MEAN					1.05	1992
HIGHEST DAILY MEAN	33	May 21	14	May 17	33	May 21 1993
LOWEST DAILY MEAN	.42	Feb 2	.37	Feb 6	.21	Sep 27 1991
ANNUAL SEVEN-DAY MINIMUM	.42	Feb 1	.45	Feb 1	.24	Jan 28 1992
ANNUAL RUNOFF (AC-FT)	2700		1050		1350	
10 PERCENT EXCEEDS	12		2.3		3.4	
50 PERCENT EXCEEDS	1.2		.93		.95	
90 PERCENT EXCEEDS	.47		.57		.54	

e Estimated

10172795 BOX ELDER WASH NEAR GRANTSVILLE, UT

LOCATION.--Lat 40°29'42", long 112°31'52", in SE$^1/_4$NE$^1/_4$SW$^1/_4$ sec. 4, T. 4 S., R. 6 W., Tooele County, Hydrologic Unit 16020304, on left bank 0.5 mi west of county road and 6.5 mi southwest of Grantsville.

DRAINAGE AREA.--9.84 mi^2.

PERIOD OF RECORD.--October 1986 to September 30, 1994 (discontinued).

REVISED RECORDS.--WDR UT-89-1: 1988.

GAGE.--Water-stage recorder. Elevation of gage is 5,700 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2.0 ft^3/s, many days in October 1987; minimum daily discharge, 0.08 ft^3/s, many days in December 1990 and January 1991, several days in November 1992-March 1993.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1.2 ft^3/s, several days in June and July; minimum daily discharge, 0.28 ft^3/s, several days in December, April and May.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.94	.72	e.44	e.45	e.44	.43	.48	.28	.59	1.2	.93	e.52
2	.94	.72	e.43	e.47	e.44	.39	.48	.28	.59	1.2	e.89	e.54
3	.86	.66	e.41	e.50	e.43	.39	.49	.28	.65	1.2	e.89	e.54
4	.90	.65	.37	.61	e.44	.36	.49	.28	.68	1.2	e.89	e.52
5	.86	.65	.35	.59	e.44	.35	.48	.28	.71	1.2	e.88	e.51
6	.86	.65	.34	.59	e.47	.35	.49	.28	.76	1.1	e.89	e.50
7	.86	.65	.34	.59	e.54	.35	.53	.28	.93	1.1	e.89	e.50
8	.86	.65	.28	.56	e.54	.35	.53	.31	.94	1.1	e.87	e.50
9	.86	.65	.45	.53	e.54	.35	.54	.31	.98	1.1	e.81	e.51
10	.86	.65	.59	.53	e.52	.35	.53	.31	1.0	1.1	e.75	e.51
11	.86	.65	.59	.53	e.50	.41	.54	.33	1.0	1.1	e.77	e.51
12	.79	.65	e.46	.54	e.45	.40	.44	.31	1.0	1.1	e.78	e.50
13	.79	.65	e.42	.59	e.46	.39	.42	.31	1.1	1.2	e.72	e.50
14	.80	.60	e.38	.59	e.47	.39	.39	.34	1.1	1.1	e.69	e.50
15	.72	.59	e.38	.59	e.47	.39	.39	.35	1.2	1.0	e.68	e.50
16	.73	.59	e.38	.59	.46	.39	.39	.35	1.2	.93	e.66	e.52
17	.72	.59	e.40	.61	.51	.39	.38	.38	1.2	1.0	e.64	e.50
18	.72	.59	e.40	.65	.51	.39	.35	.39	1.2	1.0	e.62	e.49
19	.72	.59	e.41	.65	.48	.41	.34	.42	1.2	1.0	e.60	e.48
20	.72	.59	e.39	.65	.48	.39	.31	.43	1.2	1.1	e.67	e.48
21	.71	.59	e.39	.65	.45	.39	.31	.43	1.2	1.1	e.64	e.50
22	.65	.60	e.39	.65	.43	.40	.31	.43	1.2	1.1	e.63	e.50
23	.65	.65	e.39	.60	e.44	.39	.31	.43	1.1	1.1	e.60	e.49
24	.65	.65	e.40	.53	e.45	.44	.31	.43	1.1	.94	e.58	e.48
25	.68	e.48	e.39	.53	.46	.48	.31	.43	1.1	.86	e.57	e.48
26	.72	e.43	e.42	.53	.47	.48	.33	.45	1.1	.86	e.56	e.48
27	.72	e.44	e.43	.53	.51	.48	.33	.48	1.2	.86	e.54	e.47
28	.72	e.44	e.45	.53	.46	.48	.32	.48	1.2	.86	e.54	e.47
29	.72	e.44	e.44	.53	---	.48	.28	.52	1.2	.86	e.54	e.47
30	.72	e.44	e.44	e.48	---	.48	.28	.53	1.2	.86	e.53	e.47
31	.72	---	e.43	e.48	---	.48	---	.58	---	.92	e.52	---
TOTAL	24.03	17.90	12.78	17.45	13.26	12.60	12.08	11.69	30.83	32.35	21.77	14.94
MEAN	.78	.60	.41	.56	.47	.41	.40	.38	1.03	1.04	.70	.50
MAX	.94	.72	.59	.65	.54	.48	.54	.58	1.2	1.2	.93	.54
MIN	.65	.43	.28	.45	.43	.35	.28	.28	.59	.86	.52	.47
AC-FT	48	36	25	35	26	25	24	23	61	64	43	30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1994, BY WATER YEAR (WY)

MEAN	.59	.53	.45	.45	.40	.38	.37	.38	.73	.76	.61	.50
MAX	1.95	1.85	1.64	1.60	1.33	1.09	.91	.90	1.14	1.64	1.13	.90
(WY)	1987	1987	1987	1987	1987	1987	1987	1987	1993	1993	1993	1993
MIN	.12	.10	.092	.088	.097	.11	.14	.18	.23	.23	.17	.19
(WY)	1993	1993	1993	1991	1993	1993	1993	1991	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1987 - 1994	
ANNUAL TOTAL	225.60		221.68			
ANNUAL MEAN	.62		.61		.51	
HIGHEST ANNUAL MEAN					1.28	1987
LOWEST ANNUAL MEAN					.20	1992
HIGHEST DAILY MEAN	1.9	Jul 18	1.2	Jun 15	2.0	Oct 1 1986
LOWEST DAILY MEAN	.08	Jan 3	.28	Dec 8	.08	Dec 18 1990
ANNUAL SEVEN-DAY MINIMUM	.09	Jan 1	.28	Apr 29	.08	Dec 18 1990
ANNUAL RUNOFF (AC-FT)	447		440		371	
10 PERCENT EXCEEDS	1.4		1.0		1.1	
50 PERCENT EXCEEDS	.46		.53		.37	
90 PERCENT EXCEEDS	.09		.35		.14	

e Estimated

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT

LOCATION.--Lat 40°29'47", long 112°34'25", in SW¼NW¼SW¼ 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.

DRAINAGE AREA.--4.19 mi². Area at crest-stage gage site, 3.26 mi².

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 sea level, from topographic map. Prior to July 23, 1963, crest-stage gage only, at site 1.4 mi upstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft³/s June 8, 1964, gage height, 2.27 ft; minimum daily discharge, 1.4 ft³/s Jan. 5, 1993.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
--	--	unknown	unknown				

Maximum discharge observed, 16 ft³/s May 13, gage height, 1.54 ft; maximum daily discharge, 19 ft³/s May 15-18; Minimum daily discharge, 2.1 ft³/s several days in December and February.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	3.0	e2.6	e2.5	e2.2	e2.7	4.1	5.3	e10	5.3	3.3	2.6
2	3.6	3.0	e2.7	e2.7	e2.1	e2.6	4.2	5.3	e11	5.2	3.0	2.6
3	3.6	3.0	e2.5	e2.7	e2.1	2.6	4.4	5.3	e12	4.9	3.0	2.5
4	3.4	3.0	e2.7	e2.6	e2.2	2.8	4.9	5.3	e14	4.9	3.0	2.4
5	3.3	3.0	e2.4	e2.7	e2.2	2.8	4.9	e5.7	e14	4.9	3.0	2.3
6	3.3	3.0	e2.5	e2.7	e2.4	2.8	4.9	e6.8	e14	4.8	3.0	2.3
7	3.4	3.0	e2.4	e2.6	e2.5	2.9	4.6	e7.6	e14	4.6	2.9	2.3
8	3.3	3.0	e2.6	e2.6	e2.5	3.0	4.3	e9.0	e13	4.6	2.8	2.3
9	3.3	3.0	e2.6	e2.8	e2.4	3.0	3.9	e11	e12	4.6	2.8	2.3
10	3.3	3.0	2.6	e2.7	e2.5	2.8	3.9	e13	e11	4.6	2.9	2.3
11	3.3	3.0	2.6	3.0	e2.4	2.9	3.9	e13	e11	4.5	2.9	2.3
12	3.3	3.0	e2.5	3.0	e2.2	3.0	3.9	e14	e10	4.2	2.8	2.3
13	3.3	3.0	e2.4	3.0	e2.4	3.0	3.9	e16	e9.7	4.2	2.8	2.3
14	3.7	3.0	e2.3	2.8	e2.4	3.0	4.0	e17	e9.4	4.2	2.8	2.3
15	3.6	3.0	e2.4	2.8	e2.5	3.0	4.5	e19	e9.0	3.7	2.8	2.3
16	3.6	2.8	e2.5	e2.7	2.6	3.2	5.1	e19	e8.6	3.6	2.8	2.3
17	3.5	2.8	e2.4	e2.6	2.7	3.4	6.0	e19	e8.4	3.6	2.8	2.3
18	3.6	2.8	e2.2	e2.7	2.8	3.7	6.7	e19	8.2	3.6	2.9	2.3
19	3.6	e2.6	e2.1	e2.6	e2.6	4.3	6.8	e17	7.7	3.5	2.9	2.3
20	3.3	e2.6	e2.1	e2.5	e2.6	4.2	6.9	e15	7.4	3.3	2.8	2.3
21	3.3	e2.7	e2.2	e2.5	e2.5	4.0	e7.4	e11	7.1	3.3	2.8	2.3
22	3.3	2.8	e2.1	2.8	e2.4	4.2	e8.0	e10	7.1	3.3	2.8	2.3
23	3.3	e2.7	e2.1	2.8	e2.3	4.1	e8.6	e9.6	7.0	3.3	2.8	2.3
24	3.3	e2.5	e2.2	2.8	e2.5	3.7	e9.0	e9.0	6.6	3.3	2.7	2.3
25	3.2	e2.4	e2.1	2.7	e2.6	3.6	e9.0	e9.0	6.5	3.3	2.6	2.3
26	3.0	e2.5	e2.2	2.6	2.8	3.6	e8.6	e9.0	5.8	3.3	2.6	2.3
27	3.0	e2.6	e2.3	2.6	2.9	3.6	e8.0	e9.0	5.7	3.3	2.6	2.3
28	3.0	e2.6	e2.5	e2.4	2.8	3.6	e7.0	e9.2	5.7	3.3	2.6	2.3
29	3.0	e2.7	e2.4	e2.4	---	3.6	e5.8	e9.6	5.5	3.3	2.7	2.5
30	3.0	e2.7	e2.3	e2.4	---	3.6	5.3	e9.6	5.3	3.4	2.6	2.6
31	3.0	---	e2.2	e2.3	---	3.6	---	e9.6	---	3.3	2.6	---
TOTAL	103.3	84.8	73.7	82.6	69.1	102.9	172.5	346.9	276.7	123.2	87.4	70.4
MEAN	3.33	2.83	2.38	2.66	2.47	3.32	5.75	11.2	9.22	3.97	2.82	2.35
MAX	3.7	3.0	2.7	3.0	2.9	4.3	9.0	19	14	5.3	3.3	2.6
MIN	3.0	2.4	2.1	2.3	2.1	2.6	3.9	5.3	5.3	3.3	2.6	2.3
AC-FT	205	168	146	164	137	204	342	688	549	244	173	140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1994, BY WATER YEAR (WY)

MEAN	3.57	3.31	2.97	2.89	2.89	3.52	6.29	15.9	18.4	9.25	5.09	4.07
MAX	7.59	6.57	5.79	5.61	5.84	7.12	11.9	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

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1964 - 1994	
ANNUAL TOTAL	2687.7		1593.5			
ANNUAL MEAN	7.36		4.37		6.52	
HIGHEST ANNUAL MEAN					14.9	1984
LOWEST ANNUAL MEAN					3.03	1977
HIGHEST DAILY MEAN	41	May 26	19	May 15	84	Jun 1 1984
LOWEST DAILY MEAN	1.4	Jan 5	2.1	Dec 19	1.4	Jan 5 1993
ANNUAL SEVEN-DAY MINIMUM	1.6	Jan 2	2.1	Dec 19	1.5	Dec 24 1990
ANNUAL RUNOFF (AC-FT)	5330		3160		4720	
10 PERCENT EXCEEDS	20		9.0		15	
50 PERCENT EXCEEDS	3.7		3.0		3.7	
90 PERCENT EXCEEDS	1.8		2.3		2.2	

e Estimated

10172870 TROUT CREEK NEAR CALLAO, UT

LOCATION.--Lat 39°44'39", long 113°53'21", in SW¼NW¼SW¼ sec. 28, T. 12 S., R. 18 W., Juab County, Hydrologic Unit 16020306, on left bank 2.9 mi upstream from Birch Creek and 14 mi southwest of Callao.

DRAINAGE AREA.--8.19 mi².

PERIOD OF RECORD.--October 1958 to current year. Monthly discharge only for October and November 1958, published in WSP 1734.

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

GAGE.--Water-stage recorder. Elevation of gage is 6,200 ft above sea level, from topographic map.

REMARKS.--Records fair except for winter record and estimated daily discharges, which are poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 177 ft³/s June 2, 1983, gage height, 2.84 ft, maximum gage height, 3.00 ft, May 15, 1973; minimum, 0.24 ft³/s Feb. 25, 1969.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 14	0745	*22	1.83	No other peak greater than base discharge.			

Minimum daily discharge, 0.73 ft³/s Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	2.0	1.6	1.6	e1.7	1.7	2.6	4.3	8.2	2.0	e1.5	.84
2	1.5	2.0	1.6	1.5	e1.6	1.7	2.6	4.2	8.4	2.2	e1.6	.83
3	1.5	2.0	1.6	1.6	e1.4	1.8	2.8	4.5	8.9	2.1	e1.6	.88
4	1.5	2.0	1.6	1.8	e1.4	2.0	2.6	4.5	8.6	2.2	e1.5	.92
5	1.7	2.0	1.6	1.8	e1.3	2.0	2.6	5.4	8.4	2.2	e1.5	.91
6	1.8	e2.0	1.6	1.8	e1.3	2.0	2.6	7.7	7.7	2.3	e1.4	1.0
7	1.9	e2.0	1.6	2.0	e1.4	2.0	2.6	10	7.3	2.3	e1.4	.94
8	1.8	e2.0	1.6	e1.9	e1.5	1.8	2.6	10	6.5	2.2	e1.4	.90
9	1.8	e2.0	1.7	e1.8	e1.5	2.0	2.7	10	5.8	2.1	e1.5	.88
10	1.8	2.0	1.8	e1.8	e1.5	2.0	2.4	11	5.3	2.0	e1.5	.89
11	2.0	2.0	1.8	e1.9	e1.4	1.8	2.4	13	4.7	2.1	e1.4	.80
12	1.9	2.0	1.8	e1.8	e1.3	1.8	2.6	16	4.4	2.1	e1.3	.76
13	1.8	2.0	2.1	e1.9	e1.2	e1.9	3.2	18	4.0	2.2	e1.3	.85
14	2.2	e2.0	1.8	e2.0	e1.3	e2.0	4.0	21	3.9	2.2	e1.3	.93
15	2.1	e1.9	1.6	e1.9	e1.4	e2.8	4.6	20	3.7	e2.2	e1.3	.93
16	2.2	e2.0	1.7	e1.8	e1.5	3.3	5.3	20	3.5	e2.3	e1.2	.91
17	2.8	2.0	1.6	e1.9	e1.7	3.4	5.6	19	3.2	e2.3	1.2	.85
18	2.6	1.8	1.6	e1.8	e1.6	3.2	6.7	15	3.1	e2.2	1.2	.81
19	2.3	e1.7	1.6	e1.8	e1.5	3.1	8.0	13	3.0	e2.1	1.3	.79
20	2.2	e1.8	1.6	e1.7	e1.4	3.0	9.4	11	2.7	e2.0	1.2	.95
21	2.2	e1.8	1.6	e1.6	e1.3	2.9	11	8.7	2.9	e1.9	1.3	.89
22	2.1	1.8	1.6	e1.6	e1.3	3.1	12	7.2	2.7	e1.9	1.1	.82
23	2.1	1.9	1.6	e1.6	e1.2	3.2	12	6.4	2.6	e1.9	1.1	.77
24	2.0	e1.7	1.6	e1.7	e1.3	2.6	10	6.2	2.4	e1.8	1.1	.80
25	2.0	e1.6	1.6	e1.8	e1.4	2.6	8.8	6.0	2.3	e1.7	.92	.86
26	2.0	e1.5	1.6	1.9	e1.4	2.5	7.2	6.3	2.2	e1.7	.88	.83
27	2.0	e1.4	1.6	2.0	e1.4	2.4	6.5	6.2	2.2	e1.7	1.1	.76
28	2.0	e1.2	1.6	2.0	1.5	2.4	5.4	6.0	2.2	e1.7	1.1	.73
29	2.0	1.1	1.6	2.1	---	2.4	4.6	6.2	2.0	e1.6	1.0	1.5
30	2.0	1.5	1.5	2.0	---	2.2	4.1	6.4	2.1	e1.6	.93	1.8
31	2.0	---	1.6	e1.9	---	2.4	---	8.2	---	e1.5	.89	---
TOTAL	61.3	54.7	51.0	56.3	39.7	74.0	159.5	311.4	134.9	62.3	39.02	27.33
MEAN	1.98	1.82	1.65	1.82	1.42	2.39	5.32	10.0	4.50	2.01	1.26	.91
MAX	2.8	2.0	2.1	2.1	1.7	3.4	12	21	8.9	2.3	1.6	1.8
MIN	1.5	1.1	1.5	1.5	1.2	1.7	2.4	4.2	2.0	1.5	.88	.73
AC-FT	122	108	101	112	79	147	316	618	268	124	77	54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1994, BY WATER YEAR (WY)

MEAN	2.17	2.06	1.77	1.65	1.69	2.15	5.07	17.8	21.4	5.65	2.61	2.02
MAX	8.59	4.96	3.29	3.31	3.35	5.04	11.1	59.2	95.4	19.9	6.55	5.37
(WY)	1983	1983	1983	1983	1983	1983	1962	1984	1983	1983	1965	1965
MIN	1.16	1.26	1.04	.96	1.02	1.09	1.34	3.44	3.66	1.49	.98	.91
(WY)	1993	1991	1991	1960	1960	1991	1991	1989	1959	1959	1959	1994

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1959 - 1994	
ANNUAL TOTAL	2095.28		1071.45			
ANNUAL MEAN	5.74		2.94		5.62	
HIGHEST ANNUAL MEAN					16.3	1983
LOWEST ANNUAL MEAN					2.07	1989
HIGHEST DAILY MEAN	51	May 21	21	May 14	156	Jun 1 1983
LOWEST DAILY MEAN	.52	Feb 9	.73	Sep 28	.52	Feb 9 1993
ANNUAL SEVEN-DAY MINIMUM	.94	Feb 5	.80	Sep 22	.80	Sep 22 1994
ANNUAL RUNOFF (AC-FT)	4160		2130		4070	
10 PERCENT EXCEEDS	14		6.4		12	
50 PERCENT EXCEEDS	2.0		1.9		2.1	
90 PERCENT EXCEEDS	1.3		1.1		1.3	

e Estimated

10172952 DUNN CREEK NEAR PARK VALLEY, UT

LOCATION.--Lat 41°51'31", long 113°19'35", in NW¼NW¼NW¼ 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.

GAGE.--Water-stage recorder. Elevation of gage is 6,250 ft above sea level, from topographic map. Prior to Aug. 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, 15 ft³/s May 12, gage height, 1.24 ft; minimum daily discharge, 0.56 ft³/s Sept. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.7	e.90	e.86	e1.0	1.8	1.3	3.4	7.0	1.6	1.1	.62
2	1.7	1.6	e.90	e.90	e1.0	2.2	1.2	3.4	6.5	1.7	.99	.61
3	1.7	1.7	e.90	e.90	e1.0	2.3	1.3	3.3	6.2	1.7	.90	.59
4	1.7	1.7	e.90	e.90	e1.0	2.2	1.2	3.3	6.0	1.6	.84	.59
5	1.7	1.6	e.90	e.90	e1.0	2.0	1.2	5.0	5.6	1.5	.79	.59
6	1.9	1.6	e.90	e.90	e1.1	1.8	1.3	6.8	5.6	1.6	.76	.59
7	1.9	1.6	e.90	e.88	e1.3	1.8	1.2	7.9	5.3	1.6	.75	.59
8	2.0	1.6	e.90	e.87	e1.2	1.7	1.1	8.8	4.8	1.5	.84	.57
9	1.9	1.6	e.90	e.87	e1.1	1.7	1.2	9.3	4.5	1.4	1.0	.56
10	1.8	1.6	e.98	e.88	e1.2	1.6	1.3	11	4.3	1.3	.91	.57
11	2.2	1.6	e.96	e.88	e1.1	1.6	1.4	11	4.1	1.3	.88	.58
12	1.9	1.6	e1.0	e.94	e1.1	1.5	1.4	12	4.0	1.2	.82	.58
13	1.8	1.5	e.90	e1.0	e1.1	1.6	1.3	12	3.9	1.2	.80	.58
14	1.9	e1.5	e.80	e1.0	e1.1	1.7	1.3	11	3.8	1.2	.76	.64
15	2.2	e1.5	e.80	e.90	e1.1	1.6	1.2	10	3.8	1.2	.74	.63
16	2.1	1.5	e.85	e.90	1.2	1.6	1.2	9.7	3.6	1.1	.69	.61
17	1.9	1.5	e.85	e.90	1.2	1.5	1.2	8.9	3.4	1.1	.67	.60
18	1.8	1.4	e.80	e.91	1.2	1.5	1.2	7.9	3.2	1.1	.69	.60
19	1.8	1.4	e.80	e.92	1.1	1.5	1.3	7.3	3.0	1.0	.73	.58
20	1.7	1.6	e.80	e.92	1.1	1.3	1.5	6.6	2.8	1.0	.70	.59
21	1.7	1.6	e.80	e.92	1.1	1.4	1.9	6.0	2.9	.98	.86	.59
22	1.7	1.5	e.80	e.92	1.2	1.4	5.4	5.6	2.6	1.0	.86	.59
23	1.6	1.4	e.80	e.92	1.2	2.1	6.6	5.5	2.4	1.0	.71	.58
24	1.6	e1.1	e.80	e1.0	1.4	1.4	5.3	5.5	2.3	.99	.69	.58
25	1.6	e.90	e.80	e1.1	1.5	1.3	4.8	5.9	2.2	1.4	.65	.58
26	1.7	e.81	e.80	e1.0	1.9	1.2	4.3	6.4	2.0	1.1	.63	.57
27	1.7	e.83	e.80	e1.0	1.7	1.2	4.1	7.2	2.0	.99	.66	.57
28	1.8	e.86	e.88	e1.0	1.5	1.2	4.1	7.1	2.0	1.0	.68	.58
29	1.7	e.90	e.88	e1.0	---	1.2	3.7	6.7	1.8	.97	.65	.67
30	1.7	e.90	e.80	e1.0	---	1.2	3.4	6.5	1.7	1.2	.62	1.1
31	1.7	---	e.80	e1.0	---	1.2	---	7.5	---	1.1	.62	---
TOTAL	55.8	42.20	26.60	28.99	33.7	49.3	68.9	228.5	113.3	38.63	23.99	18.28
MEAN	1.80	1.41	.86	.94	1.20	1.59	2.30	7.37	3.78	1.25	.77	.61
MAX	2.2	1.7	1.0	1.1	1.9	2.3	6.6	12	7.0	1.7	1.1	1.1
MIN	1.6	.81	.80	.86	1.0	1.2	1.1	3.3	1.7	.97	.62	.56
AC-FT	111	84	53	58	67	98	137	453	225	77	48	36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1994, BY WATER YEAR (WY)

MEAN	1.86	1.55	1.35	1.28	1.42	2.45	5.67	18.0	18.7	6.70	3.35	2.16
MAX	3.64	2.45	2.09	2.04	2.82	6.33	16.4	38.0	57.3	17.9	8.45	4.58
(WY)	1985	1983	1983	1980	1986	1986	1986	1980	1983	1983	1984	1984
MIN	.77	.81	.73	.78	.84	.85	1.15	3.40	3.13	1.25	.76	.61
(WY)	1993	1977	1977	1977	1977	1977	1991	1977	1992	1994	1992	1994

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1972 - 1994	
ANNUAL TOTAL	2337.58		728.19			
ANNUAL MEAN	6.40		2.00		5.38	
HIGHEST ANNUAL MEAN					12.0	1983
LOWEST ANNUAL MEAN					2.00	1994
HIGHEST DAILY MEAN	60	May 21	12	May 12	150	May 28 1983
LOWEST DAILY MEAN	.80	Jan 5	.56	Sep 9	.50	Feb 8 1990
ANNUAL SEVEN-DAY MINIMUM	.80	Dec 18	.58	Sep 7	.58	Sep 7 1994
ANNUAL RUNOFF (AC-FT)	4640		1440		3900	
10 PERCENT EXCEEDS	19		5.1		12	
50 PERCENT EXCEEDS	2.2		1.2		1.9	
90 PERCENT EXCEEDS	.90		.68		.98	

e Estimated

10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT

LOCATION.--Lat 37°37'19", long 112°30'58", in SW¼SE¼NW¼ 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 sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. One small diversion for irrigation upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 838 ft³/s, June 19, 1983, gage height, 5.13 ft, from rating curve extended above 640 ft³/s, minimum recorded, 0.06 ft³/s, Dec. 25, 1977, Jan. 1, 22, 1978, result of ice jam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Jan. 13	1630	12	a*3.35	May 16	0100	*229	3.14

(a) backwater from ice

Minimum daily discharge, 10 ft³/s, several days in January and February.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	24	e27	e18	e10	e15	13	31	132	28	19	16
2	27	24	24	e18	e10	e16	14	30	116	27	18	15
3	27	24	e23	e18	e10	e17	14	30	106	26	18	30
4	26	23	e22	e20	e11	e18	15	33	95	26	17	17
5	27	23	e22	e22	e11	e19	15	43	85	26	17	16
6	36	24	e21	e20	e11	e20	14	57	79	25	17	16
7	39	24	e21	e16	e11	e21	14	68	75	25	17	16
8	33	23	e21	e15	e11	e22	15	74	71	24	17	15
9	32	23	23	e14	e11	e18	15	72	67	24	17	15
10	30	22	22	e13	e11	13	15	67	63	23	17	15
11	30	23	23	e13	e10	11	14	65	58	22	16	15
12	31	24	e20	e12	e10	12	14	70	53	22	17	15
13	31	24	e21	e12	e10	16	13	92	50	22	18	15
14	29	25	e22	e12	e10	23	14	135	48	22	17	15
15	29	26	e22	e12	e11	21	16	178	47	21	17	15
16	29	25	e22	e12	e13	19	18	214	47	21	16	14
17	29	24	e21	e12	e13	17	23	191	46	20	17	14
18	29	23	e20	e12	e12	16	31	152	43	20	19	14
19	29	23	e20	e12	e10	16	36	135	41	21	27	14
20	28	27	e19	e12	e10	15	38	127	40	21	21	15
21	27	27	e18	e12	e10	15	44	122	41	20	20	14
22	26	22	e18	e12	e10	15	54	125	38	20	22	14
23	26	23	e18	e12	e10	14	65	131	36	20	19	14
24	26	24	e18	e12	e11	14	78	138	35	20	17	13
25	26	e23	e18	e12	e12	14	75	133	34	19	17	13
26	25	e22	e19	e11	e12	14	67	141	32	19	16	13
27	25	e22	e19	e11	e13	13	57	133	31	20	16	13
28	25	e22	e22	e11	e14	13	43	157	31	19	16	13
29	25	e24	e21	e11	---	13	37	145	30	19	16	13
30	25	e26	e20	e11	---	13	34	137	28	19	16	16
31	24	---	e18	e10	---	13	---	145	---	18	16	---
TOTAL	878	713	645	420	308	496	915	3371	1698	679	550	453
MEAN	28.3	23.8	20.8	13.5	11.0	16.0	30.5	109	56.6	21.9	17.7	15.1
MAX	39	27	27	22	14	23	78	214	132	28	27	30
MIN	24	22	18	10	10	11	13	30	28	18	16	13
AC-FT	1740	1410	1280	833	611	984	1810	6690	3370	1350	1090	899

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1994, BY WATER YEAR (WY)

MEAN	20.9	17.6	14.2	11.8	11.5	12.8	29.8	177	171	57.6	33.1	24.9
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	12.5	10.3	7.60	5.64
(WY)	1978	1978	1978	1978	1978	1991	1991	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1965 - 1994	
ANNUAL TOTAL	29214.4		11126			
ANNUAL MEAN	80.0		30.5		48.7	
HIGHEST ANNUAL MEAN					112	1983
LOWEST ANNUAL MEAN					9.99	1977
HIGHEST DAILY MEAN	501	May 26	214	May 16	720	Jun 19 1983
LOWEST DAILY MEAN	9.2	Mar 13	10	Jan 31	1.1	Nov 20 1977
ANNUAL SEVEN-DAY MINIMUM	9.8	Mar 10	10	Jan 28	1.9	Jan 1 1978
ANNUAL RUNOFF (AC-FT)	57950		22070		35250	
10 PERCENT EXCEEDS	300		66		117	
50 PERCENT EXCEEDS	27		20		19	
90 PERCENT EXCEEDS	12		12		7.5	

e Estimated

10174500 SEVIER RIVER AT HATCH, UT

LOCATION.--Lat 37°39'04", long 112°25'46", in SW¼SW¼NW¼ sec. 28, T. 36 S., R. 5 W., Garfield County, Hydrologic Unit 16030001, on right bank at highway 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. Elevation of gage is 6,870 ft above sea level, from river-profile map. See WSP 1734 for history of changes prior to Oct. 4, 1949. Relocated at present site Aug. 22, 1978.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Small diversions for irrigation above 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, Sept. 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 16	0330	*268	*1.76	No peaks greater than base discharge.			

Minimum daily, 49 ft³/s, Sept. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	93	86	77	e70	74	70	93	185	76	67	51
2	94	93	85	78	e70	79	72	92	170	74	65	52
3	92	94	84	76	71	89	74	88	162	73	63	85
4	91	93	84	78	73	98	78	89	153	73	58	59
5	93	91	84	79	72	97	78	96	144	73	58	55
6	128	91	83	77	72	106	74	109	138	72	56	55
7	146	91	83	e76	73	111	74	121	132	72	57	54
8	112	91	85	73	74	106	74	133	128	72	57	56
9	110	90	85	74	71	98	81	136	125	71	57	54
10	104	88	84	74	71	95	81	131	121	70	57	52
11	103	90	84	73	e70	94	75	129	115	67	55	50
12	104	92	85	73	e70	89	72	130	109	67	54	50
13	100	91	83	75	e70	101	72	147	104	67	57	49
14	96	90	83	75	70	105	75	180	102	66	55	51
15	98	89	80	77	69	104	78	217	101	66	57	53
16	97	90	81	76	72	96	82	257	99	66	56	52
17	100	90	77	73	75	94	88	244	98	66	56	52
18	98	90	82	75	71	86	99	212	95	65	58	51
19	101	89	80	74	71	88	102	196	93	69	63	51
20	97	88	e80	75	70	87	102	183	93	71	62	57
21	96	88	e77	74	69	82	109	180	96	68	59	53
22	95	90	e76	76	66	82	117	181	92	70	58	53
23	94	93	e76	73	e65	77	122	189	86	71	58	54
24	96	89	e75	76	67	76	135	192	84	71	57	54
25	95	84	e76	77	71	76	139	183	82	68	55	53
26	94	e80	74	72	73	77	135	191	79	67	53	53
27	94	88	79	73	73	73	124	179	79	67	54	52
28	94	85	80	77	74	71	111	202	78	70	66	54
29	93	87	77	70	---	71	103	192	78	69	60	53
30	92	87	74	70	---	71	96	187	77	69	54	63
31	92	---	77	e70	---	71	---	187	---	67	53	---
TOTAL	3093	2685	2499	2316	1983	2724	2792	5046	3298	2153	1795	1631
MEAN	99.8	89.5	80.6	74.7	70.8	87.9	93.1	163	110	69.5	57.9	54.4
MAX	146	94	86	79	75	111	139	257	185	76	67	85
MIN	91	80	74	70	65	71	70	88	77	65	53	49
AC-FT	6130	5330	4960	4590	3930	5400	5540	10010	6540	4270	3560	3240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1994, BY WATER YEAR (WY)

MEAN	68.2	66.8	61.6	56.1	59.4	66.2	115	304	242	109	83.1	71.1
MAX	152	129	108	101	105	106	285	831	1071	430	228	154
(WY)	1984	1984	1984	1984	1962	1962	1942	1993	1983	1983	1983	1983
MIN	36.8	36.9	36.2	37.1	36.6	38.5	44.0	40.8	44.2	38.1	30.4	28.3
(WY)	1978	1978	1957	1991	1978	1957	1957	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1940 - 1994	
ANNUAL TOTAL	75396		32015			
ANNUAL MEAN	207		87.7		109	
HIGHEST ANNUAL MEAN					251	1983
LOWEST ANNUAL MEAN					42.6	1977
HIGHEST DAILY MEAN	1150	May 17	257	May 16	1340	Jun 2 1983
LOWEST DAILY MEAN	45	Jan 1	49	Sep 13	21	Sep 8 1977
ANNUAL SEVEN-DAY MINIMUM	47	Feb 11	51	Sep 10	23	Aug 30 1977
ANNUAL RUNOFF (AC-FT)	149500		63500		78790	
10 PERCENT EXCEEDS	576		128		204	
50 PERCENT EXCEEDS	97		78		68	
90 PERCENT EXCEEDS	49		56		44	

e Estimated

10180000 SEVIER RIVER NEAR CIRCLEVILLE, UT

LOCATION.--Lat 38°06'15", long 112°20'08", in NE¼SW¼NW¼ sec. 20, T. 31 S., R. 4 W., Garfield County, Hydrologic Unit 16030001, on left bank 2 mi upstream from Pine Creek and 6 mi southwest of Circleville.

DRAINAGE AREA.--986 mi².

PERIOD OF RECORD.--May to September 1912, April 1914 to September 1927 (fragmentary 1923, 1925-27), October 1949 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1180: 1922(M). WSP 1314: 1916. WRD UT-75-1: 1969. WDR UT-78-1: Drainage area. WDR UT-83-1: 1972(M).

GAGE.--Water-stage recorder. Elevation of gage is 6,240 ft above sea level, from river-profile map. May 10 to Sept. 19, 1912, nonrecording gage at site 300 ft upstream at different datum. Apr. 23, 1914, to Sept. 30, 1927, and Nov. 21, 1949, to Aug. 6, 1954, water-stage recorder at site 300 ft upstream at datum 0.23 ft higher.

REMARKS.--Records good except those for Jan. 11 to Apr. 4, which are fair, and those for estimated daily discharges, which are poor. Many diversions above and below station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1938 may have exceeded that of June 2, 1983.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft³/s, Dec. 26, 1971, June 2, 1983, gage height, 7.06 ft; maximum gage height, 9.80 ft, May 21, 1922, site and datum then in use; minimum daily, 18 ft³/s, June 30, July 1, 5, 1960, June 23, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 247 ft³/s, Mar. 5, gage height, 2.25 ft, maximum gage height, 2.28 ft, Dec. 25, backwater from ice; minimum daily discharge, 33 ft³/s, July 14, 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	150	163	153	149	177	142	81	150	41	58	63
2	97	155	162	154	158	194	137	82	140	42	48	66
3	99	163	159	153	155	213	139	81	127	41	46	71
4	93	166	159	154	155	233	137	79	119	41	43	108
5	96	169	160	155	155	233	126	82	107	41	42	71
6	124	164	162	e160	155	224	127	80	110	39	42	69
7	204	162	159	e155	161	226	113	84	99	39	48	66
8	164	164	161	e152	164	231	106	95	94	40	50	64
9	135	164	163	e148	158	207	113	102	84	41	49	56
10	135	168	162	e150	155	190	125	108	78	41	54	48
11	124	170	162	146	158	190	118	103	75	40	51	50
12	137	179	166	151	154	188	104	101	74	37	85	45
13	137	175	155	152	146	184	104	106	74	34	71	45
14	129	171	154	157	152	190	88	112	64	33	58	43
15	120	168	161	155	160	175	81	130	56	34	60	44
16	119	170	159	155	158	170	72	157	54	33	62	46
17	137	170	156	152	167	163	65	192	57	36	58	52
18	150	170	150	152	170	161	69	198	53	42	58	49
19	142	167	150	155	e168	160	77	157	47	43	53	52
20	135	163	e151	155	e164	161	77	145	46	40	52	59
21	132	159	e152	155	e161	158	76	142	48	38	52	58
22	139	167	e151	155	157	152	80	135	48	39	47	53
23	141	170	e151	157	e154	148	77	137	49	43	45	56
24	144	168	e150	157	157	145	76	141	49	46	46	59
25	142	156	e148	157	163	143	83	141	45	46	45	51
26	138	155	155	157	172	143	105	143	43	40	47	50
27	137	154	152	155	180	140	112	151	46	41	47	51
28	145	157	156	157	175	137	116	147	47	40	47	54
29	149	166	158	154	---	137	108	159	46	40	48	54
30	146	170	151	152	---	140	90	153	43	41	47	90
31	148	---	151	149	---	145	---	149	---	69	47	---
TOTAL	4133	4950	4849	4769	4481	5458	3043	3873	2172	1261	1606	1743
MEAN	133	165	156	154	160	176	101	125	72.4	40.7	51.8	58.1
MAX	204	179	166	160	180	233	142	198	150	69	85	108
MIN	93	150	148	146	146	137	65	79	43	33	42	43
AC-FT	8200	9820	9620	9460	8890	10830	6040	7680	4310	2500	3190	3460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1994, BY WATER YEAR (WY)

MEAN	94.5	121	123	112	123	131	137	246	195	87.1	81.1	78.9
MAX	233	221	226	185	192	206	346	770	1193	420	295	189
(WY)	1984	1984	1984	1984	1980	1993	1993	1983	1983	1983	1983	1967
MIN	37.9	68.3	86.4	73.4	85.9	68.7	41.3	35.4	24.8	22.7	24.8	28.9
(WY)	1956	1957	1952	1992	1964	1957	1956	1977	1960	1955	1960	1955

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1950 - 1994	
ANNUAL TOTAL	87046		42338			
ANNUAL MEAN	238		116		127	
HIGHEST ANNUAL MEAN					337	1983
LOWEST ANNUAL MEAN					62.4	1956
HIGHEST DAILY MEAN	1050	May 18	233	Mar 4	1880	Jun 2 1983
LOWEST DAILY MEAN	75	Sep 15	33	Jul 14	18	Jun 30 1960
ANNUAL SEVEN-DAY MINIMUM	82	Sep 11	35	Jul 11	19	Jun 29 1960
ANNUAL RUNOFF (AC-FT)	172700		83980		92330	
10 PERCENT EXCEEDS	561		168		202	
50 PERCENT EXCEEDS	155		137		103	
90 PERCENT EXCEEDS	100		45		40	

e Estimated

10183500 SEVIER RIVER NEAR KINGSTON, UT

LOCATION.--Lat 38°12'22", long 112°12'25", in SE¼NE¼NW¼ 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 from East Fork.

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 and concrete control. Elevation of gage is 5,980 ft above sea level, from river-profile map. Prior to Sept. 20, 1918, at site 1 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Many diversions above 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 July 24, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 260 ft³/s, Mar. 7, gage height, 1.78 ft; maximum gage height, 2.83 ft, Dec. 24, backwater from ice: minimum daily discharge, 11 ft³/s, many days in July and August.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	165	204	190	e171	196	114	28	77	12	12	12
2	48	171	201	192	173	205	95	26	78	12	12	12
3	50	180	198	191	176	222	77	24	61	12	12	12
4	50	181	197	193	178	237	75	24	52	12	11	15
5	55	183	199	192	179	241	71	23	44	12	11	13
6	97	179	201	195	178	231	71	22	35	12	11	13
7	196	180	200	182	185	234	71	23	32	12	11	14
8	180	185	200	180	189	248	63	23	24	12	11	14
9	152	185	203	182	185	232	54	24	23	12	11	14
10	147	191	204	186	182	220	60	28	24	11	12	13
11	142	198	204	182	183	219	63	29	23	11	12	14
12	138	212	209	180	177	218	54	26	21	11	12	14
13	139	208	198	182	170	205	48	27	19	11	12	13
14	132	201	194	184	170	213	39	28	17	11	12	13
15	116	199	201	184	182	206	33	40	15	11	12	13
16	118	199	201	183	183	197	28	67	16	11	12	13
17	146	200	194	179	185	188	25	110	16	11	12	13
18	166	202	188	178	201	186	26	112	16	11	12	13
19	159	198	186	182	191	185	26	81	17	11	12	13
20	153	192	187	180	185	191	24	55	16	11	12	14
21	146	187	177	177	179	179	25	55	16	11	12	13
22	156	195	172	178	180	171	24	62	15	12	12	13
23	154	200	174	182	169	165	26	59	15	12	11	13
24	160	199	e175	182	177	160	28	64	15	12	11	13
25	157	191	e180	184	184	158	28	66	14	12	12	14
26	153	194	184	185	193	154	29	67	14	11	12	15
27	152	186	192	181	201	150	40	77	14	11	12	15
28	162	194	193	181	198	140	42	77	13	12	12	15
29	165	204	197	177	---	136	41	81	13	12	13	15
30	161	210	190	178	---	128	32	80	13	11	12	18
31	164	---	190	170	---	123	---	79	---	12	12	---
TOTAL	4161	5769	5993	5672	5104	5938	1432	1587	768	357	365	409
MEAN	134	192	193	183	182	192	47.7	51.2	25.6	11.5	11.8	13.6
MAX	196	212	209	195	201	248	114	112	78	12	13	18
MIN	47	165	172	170	169	123	24	22	13	11	11	12
AC-FT	8250	11440	11890	11250	10120	11780	2840	3150	1520	708	724	811

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1994, BY WATER YEAR (WY)

MEAN	84.2	130	144	133	155	171	159	227	151	45.9	52.6	59.2
MAX	319	237	252	218	259	330	507	1154	1139	292	315	232
(WY)	1917	1984	1984	1984	1924	1921	1916	1922	1983	1983	1916	1921
MIN	6.90	29.6	34.3	45.0	74.7	65.5	16.3	8.73	7.44	4.89	5.36	7.01
(WY)	1961	1932	1932	1932	1932	1957	1963	1959	1974	1971	1960	1960

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1915 - 1994	
ANNUAL TOTAL	79360		37555			
ANNUAL MEAN	217		103		126	
HIGHEST ANNUAL MEAN					359	1922
LOWEST ANNUAL MEAN					49.4	1991
HIGHEST DAILY MEAN	935	May 19	248	Mar 8	1560	Jun 3 1983
LOWEST DAILY MEAN	28	Sep 17	11	Jul 10	1.6	Jul 24 1963
ANNUAL SEVEN-DAY MINIMUM	32	Sep 12	11	Jul 10	2.9	Jul 22 1963
ANNUAL RUNOFF (AC-FT)	157400		74490		91090	
10 PERCENT EXCEEDS	470		199		227	
50 PERCENT EXCEEDS	171		81		112	
90 PERCENT EXCEEDS	52		12		12	

e Estimated

10183900 EAST FORK SEVIER RIVER NEAR RUBY'S INN, UT

LOCATION.--Lat 37°34'33", long 112°15'54", in NE¼SE¼NW¼ sec. 19, T. 37 S., R. 4 W., Garfield County, Hydrologic Unit 16030002, Dixie National Forest, on left bank about 100 ft upstream from highway bridge, 0.6 mi downstream from Skunk Creek, 3.6 mi upstream from Tropic Reservoir Dam, 9.1 mi southwest of Ruby's Inn, and 10.5 mi southeast of Hatch.

DRAINAGE AREA.--71.6 mi².

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

REVISED RECORDS.--WDR UT-74-1: 1973.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 7,860 ft above sea level, from river-profile map. Prior to October 10, 1966, on right bank at different datum.

REMARKS.--Records good except those for Nov. 6-24, 30, Dec. 1, and those for estimated daily discharges, which are poor. No diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 448 ft³/s, May 23, 1980, gage height, 3.70 ft; no flow for several days in February and March 1964.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 6	1430	*59	*2.57	Apr. 2	2130	58	2.56

Minimum daily, 3.5 ft³/s, July 11, 12, 16, 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	13	12	e8.7	e9.0	e12	40	26	11	4.1	4.8	6.2
2	8.4	12	e11	e8.7	e9.0	e12	41	25	10	4.2	4.7	6.0
3	8.5	12	e10	e8.7	e8.7	e15	42	23	9.5	4.0	4.5	14
4	8.5	13	e9.0	e8.7	e8.7	e17	39	21	9.1	3.9	4.1	8.4
5	9.8	12	e9.0	e8.7	e8.9	e16	31	21	8.7	3.9	3.9	6.7
6	36	11	e9.0	e8.7	e9.0	e18	32	20	8.3	3.7	3.8	6.7
7	32	12	e9.0	e8.7	e9.0	e20	34	19	7.9	3.7	4.3	9.3
8	17	13	e9.0	e8.7	e9.0	e18	31	20	7.9	3.9	5.4	7.7
9	14	15	e10	e8.7	e9.0	e17	30	19	7.7	4.1	5.5	6.6
10	13	14	e12	e8.7	e9.0	e16	27	19	7.4	3.7	5.2	6.6
11	16	13	e12	e8.7	e9.0	e16	28	18	7.1	3.5	5.5	7.8
12	22	14	e10	e8.7	e9.0	e16	33	18	6.7	3.5	6.5	7.6
13	15	15	e10	e8.9	e8.7	e18	37	18	6.4	3.9	8.7	7.6
14	13	16	e11	e9.0	e8.7	e19	39	18	6.0	4.3	7.4	6.5
15	13	19	e10	e9.0	e8.7	e19	38	17	5.7	3.7	6.3	6.4
16	13	19	e10	e8.7	e8.7	e17	37	17	5.6	3.5	6.0	6.3
17	16	19	e9.0	e8.7	e8.7	e16	37	16	5.5	3.5	6.1	6.3
18	16	18	e9.0	e8.7	e8.7	e16	35	16	5.7	3.9	7.0	6.6
19	16	19	e8.7	e8.7	e8.7	e16	33	15	6.3	4.8	11	9.2
20	14	19	e8.7	e8.7	e8.7	e16	32	14	6.1	4.9	7.6	12
21	13	19	e8.7	e8.7	e8.7	e16	30	14	8.4	5.3	7.4	9.9
22	13	15	e8.7	e8.7	e8.7	e16	29	13	8.0	5.0	6.3	8.1
23	13	17	e8.7	e8.7	e8.7	e16	27	13	6.2	6.1	5.6	7.2
24	13	15	e8.7	e8.7	e8.7	e16	25	12	5.4	6.4	5.3	6.9
25	13	e12	e8.7	e8.7	e9.5	e16	24	14	5.0	5.6	5.2	6.8
26	12	e11	e8.7	e8.9	e10	e17	27	16	4.7	5.7	5.1	6.8
27	12	e11	e8.7	e9.0	e11	e23	28	15	4.5	6.5	5.0	6.4
28	13	e12	e8.8	e9.0	e11	e29	29	13	4.5	6.0	7.0	6.4
29	13	e12	e8.8	e9.0	---	34	28	12	4.4	5.6	9.0	7.4
30	12	12	e8.8	e9.0	---	34	25	11	4.3	5.7	6.7	15
31	12	---	e8.7	e9.0	---	35	---	11	---	5.0	6.1	---
TOTAL	448.7	434	294.4	272.2	253.2	582	968	524	204.0	141.6	187.0	235.4
MEAN	14.5	14.5	9.50	8.78	9.04	18.8	32.3	16.9	6.80	4.57	6.03	7.85
MAX	36	19	12	9.0	11	35	42	26	11	6.5	11	15
MIN	8.4	11	8.7	8.7	8.7	12	24	11	4.3	3.5	3.8	6.0
AC-FT	890	861	584	540	502	1150	1920	1040	405	281	371	467

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1994, BY WATER YEAR (WY)

MEAN	10.1	10.4	8.75	8.05	9.54	15.3	36.3	53.9	22.3	9.98	9.39	8.74
MAX	17.0	18.2	24.3	18.3	15.2	24.5	91.3	225	117	32.2	24.6	17.9
(WY)	1984	1988	1967	1984	1963	1989	1993	1980	1980	1980	1983	1983
MIN	3.83	3.79	3.87	3.48	2.24	1.97	7.60	6.26	3.85	2.62	3.91	3.87
(WY)	1965	1965	1965	1990	1964	1964	1977	1972	1990	1963	1962	1964

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1962 - 1994	
ANNUAL TOTAL	12145.4		4544.5			
ANNUAL MEAN	33.3		12.5		16.9	
HIGHEST ANNUAL MEAN					45.0	1980
LOWEST ANNUAL MEAN					6.07	1977
HIGHEST DAILY MEAN	241	May 17	42	Apr 3	418	May 23 1980
LOWEST DAILY MEAN	3.8	Jan 1	3.5	Jul 11	.00	Feb 26 1964
ANNUAL SEVEN-DAY MINIMUM	4.1	Jan 1	3.7	Jul 11	.00	Feb 26 1964
ANNUAL RUNOFF (AC-FT)	24090		9010		12250	
10 PERCENT EXCEEDS	113		25		31	
50 PERCENT EXCEEDS	12		9.0		9.8	
90 PERCENT EXCEEDS	7.6		5.1		4.6	

e Estimated

10188000 OTTER CREEK RESERVOIR NEAR ANTIMONY, UT

LOCATION.--Lat 38°10'15", long 112°01'25", in NW¼SW¼NW¼ sec. 28, T. 30 S., R. 2 W., Piute County, Hydrologic Unit 16030002, near spillway on right side of dam on Otter Creek, 3.7 mi northwest of Antimony and 9.3 mi east of Kingston.

DRAINAGE AREA.--373 mi².

PERIOD OF RECORD.--January 1914 to September 1915, January 1934 to current year. Published as "near Coyote" 1914.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Staff gage read intermittently and on last day of each month. Datum of gage is 6,338 ft above sea level (from elevation data provided by State Engineer's Office).

REMARKS.--Reservoir was formed in 1898 by a 15-ft earthfill, rock-faced dam which was raised some each year to the ultimate height of 42 ft in 1915. The dam has a concrete core through the center. Capacity, 52,700 acre-ft between elevation 6,338 ft (bottom of outlet gage) and 6,374 ft (top of flashboards on spillway). At times, additional flashboards are added or surcharge occurs increasing the elevation to 6,375 ft, capacity, 55,200 acre-ft. Spillway crest is at elevation 6,371.5 ft. Figures given herein represent total contents. Reservoir stores water from Otter Creek and also water diverted from East Fork Sevier River, for irrigation in Sevier River basin.

COOPERATION.--Elevation record provided by Sevier River Commissioner. Revised capacity table, based on Soil Conservation Service survey in 1960, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 56,760 acre-ft, May 31, 1982, elevation, 6,375.6 ft; minimum observed, 200 acre-ft, Sept. 10, 1956, elevation, 6,339.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 53,680 acre-ft, Mar. 11, elevation, 6,374.4 ft; minimum observed, 14,340 acre-ft, Sept. 30, elevation, 6,354.6 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,367.4	37,270	--
Oct. 31	--	*38,610	+1,340
Nov. 30	6,369.0	40,750	+2,140
Dec. 31	6,370.9	45,100	+4,350
CAL YR 1993	--	--	+32,180
Jan. 31	6,372.6	49,190	+4,090
Feb. 28	6,373.9	52,410	+3,220
Mar. 31	6,374.0	52,810	+400
Apr. 30	6,373.9	52,410	-400
May 31	6,371.6	46,770	-5,640
June 30	6,367.7	37,910	-8,860
July 31	6,360.6	24,000	-13,910
Aug. 31	6,356.0	16,420	-7,580
Sept. 30	6,354.6	14,340	-2,080
WTR YR 1994	--	--	-22,930

(*) No end-of-month gage height reading, contents interpolated.

10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT

LOCATION.--Lat 38°11'49", long 112°09'01", in NW¼SW¼SE¼ sec. 13, T. 30 S., R. 3 W., Piute County, Hydrologic Unit 16030002, on left bank 1,500 ft upstream from bridge on State Highway 22, 2.2 mi east of Kingston, 4.6 mi upstream from mouth, and 8.0 mi (revised) downstream from Otter Creek.

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. Elevation of gage is 6,150 ft above sea level, from river-profile map. Prior to Apr. 29, 1914, staff gage at site 0.5 mi upstream at different datum. Apr. 29, 1914 to June 2, 1939, water-stage recorder at site 4,000 ft downstream at different datum. June 3, 1939 to July 29, 1970, water-stage recorder at site 2,500 ft downstream at different datum. July 30, 1970 to July 12, 1983, water stage recorder 60 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation above and below station. Also diversion upstream for storage in Otter Creek Reservoir (see station 10188000); flow regulated by reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft³/s, May 12, 1941, gage height, 5.05 ft; maximum gage height, 7.35 ft, Aug. 27, 1929, site and datum then in use; minimum, 1.0 ft³/s, Jan. 25, 1976, gage height, 0.52 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 230 ft³/s several days in July, gage height, 1.99 ft; minimum daily discharge, 14 ft³/s, several days in January and February.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	55	19	e18	e14	21	102	124	124	224	e208	95
2	19	58	19	e18	e15	22	101	128	120	220	e208	97
3	23	63	18	e18	e15	24	99	127	116	224	209	96
4	24	62	e18	e18	e15	26	80	130	108	225	209	95
5	27	61	e17	20	e16	29	78	126	115	227	205	97
6	38	51	e17	16	16	33	77	125	119	227	194	97
7	35	49	e17	e19	16	35	79	113	122	227	196	98
8	26	49	18	e19	17	71	79	113	123	227	194	98
9	24	55	17	e20	16	76	80	122	123	222	198	97
10	21	57	17	e19	16	78	78	124	122	230	198	89
11	21	55	17	e18	17	85	79	126	118	229	200	55
12	21	56	18	e17	e17	121	77	127	118	227	196	53
13	22	52	e17	e16	e17	119	72	128	118	227	159	51
14	21	52	e17	e15	e17	119	72	126	119	227	159	50
15	34	51	e17	14	18	117	77	120	119	220	161	50
16	36	49	e17	14	18	118	80	117	117	212	159	50
17	42	28	e17	e14	18	118	79	120	116	211	121	48
18	38	26	e17	e14	20	117	78	122	120	210	114	51
19	52	23	e17	e14	20	116	117	122	187	211	113	51
20	54	24	e17	e14	19	116	122	116	184	215	113	54
21	52	23	e17	e14	19	114	123	117	177	217	114	55
22	52	23	e16	e14	19	111	121	125	179	216	113	54
23	53	27	e17	14	e19	111	113	124	181	216	113	61
24	53	e19	e17	14	20	109	117	124	181	216	113	58
25	52	e19	e17	14	20	107	124	125	182	216	114	60
26	53	e18	e18	14	21	107	128	126	185	216	91	65
27	53	e18	e19	14	21	106	127	128	185	216	81	63
v 28	54	e17	e19	15	21	104	126	127	183	216	86	64
29	54	e18	e18	15	---	104	129	125	176	214	89	47
30	54	e18	e17	15	---	103	121	128	180	211	90	50
31	55	---	e18	e15	---	102	---	128	---	211	92	---
TOTAL	1183	1176	541	493	497	2739	2935	3833	4317	6807	4610	2049
MEAN	38.2	39.2	17.5	15.9	17.7	88.4	97.8	124	144	220	149	68.3
MAX	55	63	19	20	21	121	129	130	187	230	209	98
MIN	19	17	16	14	14	21	72	113	108	210	81	47
AC-FT	2350	2330	1070	978	986	5430	5820	7600	8560	13500	9140	4060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1994, BY WATER YEAR (WY)

MEAN	37.4	27.4	22.6	22.3	25.4	38.0	76.2	164	148	167	133	85.3
MAX	241	151	128	156	146	171	398	1109	551	365	334	242
(WY)	1923	1985	1939	1939	1986	1983	1942	1922	1983	1915	1917	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 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1914 - 1994	
ANNUAL TOTAL	20822		31180			
ANNUAL MEAN	57.0		85.4		79.3	
HIGHEST ANNUAL MEAN					201	1922
LOWEST ANNUAL MEAN					33.5	1968
HIGHEST DAILY MEAN	417	May 22	230	Jul 10	1740	May 12 1941
LOWEST DAILY MEAN	10	Jan 3	14	Jan 15	5.5	Feb 25 1977
ANNUAL SEVEN-DAY MINIMUM	11	Jan 1	14	Jan 15	5.5	Feb 25 1977
ANNUAL RUNOFF (AC-FT)	41300		61850		57440	
10 PERCENT EXCEEDS	91		202		209	
50 PERCENT EXCEEDS	34		77		33	
90 PERCENT EXCEEDS	13		17		13	

e Estimated

10191000 PIUTE RESERVOIR NEAR MARYSVALE, UT

LOCATION.--Lat 38°19'26", long 112°11'26", in NW¼NE¼NW¼ sec. 3, T. 29 S., R. 3 W., Piute County, Hydrologic Unit 16030001, at Piute Dam on Sevier River, 9.0 mi south of Marysvale.

DRAINAGE AREA.--2,438 mi².

PERIOD OF RECORD.--March 1914 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Staff gage read at irregular intervals and end of each month. Datum of gage is 5,900.8 ft above sea level (levels by Office of State Engineer).

REMARKS.--Reservoir is formed by earthfill dam; storage began in summer of 1910. Capacity, 71,830 acre-ft between elevation 5,910.8 ft (approximate bottom of reservoir) and elevation 5,976.8 ft (top of flashboards on spillway since 1941). Spillway crest is at elevation 5,971.0 ft. No dead storage. Water is used for irrigation.

COOPERATION.--Elevation record provided by Sevier River Commissioner. Revised capacity table, based on Soil Conservation Service survey in 1960, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 83,050 acre-ft, June 5, 1983, elevation, 5,980.6 ft; no contents at times many years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 72,090 acre-ft, Mar. 29, elevation, 5,976.9 ft; minimum observed, 13,790 acre-ft, Sept. 30, elevation, 5,943.3 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	5,950.3	22,680	--
Oct. 31	5,956.2	31,510	+8,830
Nov. 30	5,964.1	45,030	+13,520
Dec. 31	5,970.2	56,800	+11,770
CAL YR 1993	--	--	+36,840
Jan. 31	5,973.4	63,630	+6,830
Feb. 28	5,975.2	67,810	+4,180
Mar. 31	5,976.7	71,570	+3,760
Apr. 30	5,972.4	61,430	-10,140
May 31	5,967.5	51,420	-10,010
June 30	5,957.7	33,920	-17,500
July 31	5,951.7	24,680	-9,240
Aug. 31	5,944.0	14,600	-10,080
Sept. 30	5,943.3	13,790	-810
WTR YR 1994	--	--	-8,890

10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UTAH

LOCATION.--Lat 38°19'43", long 112°11'30", in NW¼SW¼SE¼ sec. 34, T. 28 S., R. 3 W., Piute County, Hydrologic Unit 16030003, on left bank 0.25 mi downstream from 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 and concrete control. Elevation of gage is 5,870 ft above sea level, by barometer. Prior to May 4, 1912, nonrecording gage at site 0.25 mi upstream at different datums. May 4, 1912, to Mar. 31, 1935, water-stage recorder at site 0.05 mi upstream at different datum. Apr. 1, 1935, to Apr. 7, 1936, at datum 0.7 ft higher. Apr. 8, 1936, to Feb. 25, 1970, at datum 0.5 ft higher. Feb. 26, 1970, to Apr. 22, 1979 at site 0.25 mi downstream at different datum. Apr. 22, 1979, to Sept. 30, 1985, at datum 10.0 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Piute Reservoir (see station 10191000).

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 were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 671 ft³/s, June 20, gage height 12.58 ft; minimum daily discharge, 6.6 ft³/s, Dec. 16, Dec. 23 to Jan. 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	40	15	6.6	107	107	214	566	117	564	483	262
2	97	34	15	6.6	107	107	202	543	100	539	474	242
3	95	18	15	6.6	107	107	147	492	147	476	464	174
4	102	17	15	6.9	107	107	115	463	149	415	461	176
5	80	16	14	7.2	107	107	63	458	185	374	457	178
6	63	16	14	7.3	106	127	49	454	221	355	457	170
7	65	16	13	21	106	161	100	437	288	351	463	147
8	65	16	13	69	106	231	134	406	301	339	475	120
9	65	18	13	69	107	231	175	379	321	310	463	126
10	96	17	13	69	105	231	158	295	364	318	455	136
11	110	17	13	69	106	231	137	269	400	366	438	124
12	110	17	14	69	106	231	119	303	418	408	405	124
13	110	18	13	64	105	257	119	331	433	438	363	138
14	110	16	13	60	105	278	111	283	493	437	323	156
15	98	17	23	59	107	278	118	204	570	449	248	144
16	86	17	6.6	57	107	264	124	204	595	453	218	127
17	73	17	6.9	58	107	254	122	255	604	415	285	97
18	48	15	7.1	56	107	254	225	318	619	410	283	65
19	31	15	7.1	56	107	218	352	295	623	415	291	59
20	31	16	6.9	56	107	204	406	295	642	432	291	53
21	20	16	6.9	56	107	204	501	295	611	432	274	60
22	15	16	6.7	56	107	201	575	295	612	421	270	73
23	21	16	6.6	56	107	200	590	306	618	395	283	73
24	56	22	6.6	56	107	200	629	313	616	357	281	67
25	56	20	6.6	56	107	144	642	338	611	300	276	66
26	57	15	6.6	117	107	100	637	329	601	276	285	65
27	60	15	6.6	197	107	100	602	287	607	291	282	51
28	63	15	6.6	141	107	134	565	272	605	345	282	56
29	63	15	6.6	107	---	290	555	245	596	373	278	59
30	51	15	6.6	107	---	288	576	217	584	399	273	39
31	40	---	6.6	107	---	244	---	177	---	457	259	---
TOTAL	2145	538	323.6	1929.2	2985	6090	9062	10324	13651	12310	10840	3427
MEAN	69.2	17.9	10.4	62.2	107	196	302	333	455	397	350	114
MAX	110	40	23	197	107	290	642	566	642	564	483	262
MIN	15	15	6.6	6.6	105	100	49	177	100	276	218	39
AC-FT	4250	1070	642	3830	5920	12080	17970	20480	27080	24420	21500	6800

CAL YR 1993 TOTAL 77287.9 MEAN 212 MAX 807 MIN 4.9 AC-FT 153300
WTR YR 1994 TOTAL 73624.8 MEAN 202 MAX 642 MIN 6.6 AC-FT 146000

10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UT

LOCATION.--Lat 38°34'20", long 112°15'27", in NE¼NW¼NE¼ sec. 5, T. 26 S., R. 4 W., Sevier County, Hydrologic Unit 16030003, on right bank 0.6 mi upstream from bridge on U.S. Highway 89, 0.7 mi upstream from Clear Creek, and 1.0 mi south of Sevier.

DRAINAGE AREA.--2,707 mi².

PERIOD OF RECORD.--May 1911 to November 1916 (published as Sevier River at Sevier), April 1939 to September 1955, October 1960 to current year. Records for November 1916 to September 1929 (published as Sevier River at Sevier) include flow of Clear Creek and are not equivalent.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,560 ft above sea level, by barometer. Prior to May 16, 1912, nonrecording gage, and May 16, 1912 to Nov. 15, 1916, water-stage recorder, at site 0.8 mi downstream at different datums (datum lowered 1.0 ft Mar. 31, 1913).

REMARKS.--Records good except for estimated daily discharges, which are poor. Many diversions above station for irrigation. Flow regulated by Piute Reservoir.

EXTREMES FOR PERIOD OF RECORD.--(Not including flow of Clear Creek): Maximum discharge, 2,500 ft³/s, June 3, 1983, gage height, 4.82 ft; minimum, 2.3 ft³/s, Dec. 13, 1964. 1916-29 (including flow of Clear Creek): Maximum discharge, 2,800 ft³/s, during last week of May 1922, computed on basis of records for station near Marysvale; minimum daily discharge, 5.8 ft³/s, Jan. 11, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 626 ft³/s, Apr. 25-27, June 20, gage height, 2.39 ft; minimum daily discharge, 27 ft³/s, Jan. 4, 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	54	e42	e32	83	125	237	580	287	566	481	256
2	110	53	e45	e33	89	124	226	573	205	557	493	261
3	102	50	e38	e31	94	124	199	545	219	505	481	224
4	107	40	35	27	96	123	158	501	239	446	475	188
5	110	38	35	28	99	122	130	481	240	405	473	188
6	84	37	33	27	99	121	75	477	276	368	460	188
7	76	37	34	e37	110	145	83	467	304	365	468	177
8	74	37	33	e47	120	190	141	459	335	366	468	148
9	78	37	32	e91	118	229	180	415	331	350	488	120
10	77	38	32	e91	117	232	196	381	380	330	470	148
11	112	38	33	e91	117	237	170	302	417	327	460	136
12	121	40	e33	82	120	242	150	298	451	386	432	130
13	119	39	e32	75	124	237	139	351	449	412	405	127
14	118	38	e33	68	120	266	137	367	467	427	376	147
15	118	38	e34	67	120	274	127	290	561	426	367	158
16	103	37	e34	65	119	274	145	286	583	444	348	144
17	96	38	e33	66	120	260	147	273	583	425	322	134
18	83	37	e33	72	123	259	151	343	590	406	308	93
19	59	36	e28	64	122	257	302	323	589	389	301	72
20	50	36	e28	64	122	224	366	316	604	409	299	67
21	49	38	e29	65	123	221	427	315	605	411	299	61
22	50	38	e29	66	123	221	539	312	597	412	294	65
23	40	37	e29	66	125	219	586	321	588	394	286	77
24	40	35	e29	68	122	219	591	353	597	380	286	74
25	59	e35	e29	73	121	219	620	363	597	361	284	69
26	59	e34	e29	75	123	144	625	401	586	338	277	68
27	60	e33	e29	75	123	123	620	371	580	318	286	66
28	66	e34	29	75	125	125	588	335	580	306	291	56
29	69	41	31	77	---	208	572	343	577	335	282	60
30	70	39	e31	77	---	292	571	316	571	381	277	66
31	61	---	e31	78	---	275	---	320	---	412	268	---
TOTAL	2524	1162	1005	1953	3217	6331	9198	11778	13988	12357	11505	3768
MEAN	81.4	38.7	32.4	63.0	115	204	307	380	466	399	371	126
MAX	121	54	45	91	125	292	625	580	605	566	493	261
MIN	40	33	28	27	83	121	75	273	205	306	268	56
AC-FT	5010	2300	1990	3870	6380	12560	18240	23360	27750	24510	22820	7470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1994, BY WATER YEAR (WY)

MEAN	109	84.3	63.0	60.9	131	153	220	466	453	442	365	186
MAX	312	303	492	383	579	430	549	977	2058	786	542	455
(WY)	1984	1984	1985	1984	1984	1984	1985	1983	1983	1983	1985	1985
MIN	47.6	29.1	7.38	9.22	16.0	19.6	29.1	251	120	196	97.3	38.1
(WY)	1987	1990	1979	1979	1975	1971	1968	1964	1963	1961	1961	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1961 - 1994	
ANNUAL TOTAL	92424		78786			
ANNUAL MEAN	253		216		228	
HIGHEST ANNUAL MEAN					529	1983
LOWEST ANNUAL MEAN					112	1961
HIGHEST DAILY MEAN	996	May 27	625	Apr 26	2450	Jun 2 1983
LOWEST DAILY MEAN	18	Jan 1	27	Jan 4	5.8	Jan 11 1979
ANNUAL SEVEN-DAY MINIMUM	21	Jan 1	29	Dec 19	6.0	Jan 6 1979
ANNUAL RUNOFF (AC-FT)	183300		156300		165400	
10 PERCENT EXCEEDS	557		481		526	
50 PERCENT EXCEEDS	118		139		153	
90 PERCENT EXCEEDS	29		35		22	

e Estimated

10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UT

LOCATION.--Lat 38°34'45", long 112°17'22", in NW¼NW¼SW¼ 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. Elevation of gage is 5,680 ft above sea level, from topographic map. Prior to Nov. 5, 1993, 200 ft upstream at datum 3.0 ft higher.

REMARKS.--Records fair except for estimated daily discharges, Oct. 19 to Nov. 5, Jan. 7-20, July 24-28, Aug. 3-7, 14-23, which are poor. 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; minimum, 1.5 ft³/s, Feb. 21, 1976, gage height, 0.85 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 129 ft³/s, June 1, gage height, 2.76 ft; minimum daily discharge, 5.9 ft³/s, Jan. 31, result of freezeup.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	e13	15	15	9.0	14	24	41	115	e24	19	9.0
2	9.6	e13	15	15	11	15	24	42	e106	23	18	8.7
3	9.3	e13	13	14	13	16	24	39	97	22	e18	7.7
4	9.3	e13	15	14	15	18	27	39	101	21	e17	7.7
5	9.0	e13	14	14	14	19	28	45	107	21	e17	7.7
6	11	12	14	14	14	18	27	54	102	20	e18	8.2
7	12	15	15	e13	15	19	27	63	98	e22	e17	9.0
8	15	14	17	e12	15	20	28	61	93	19	16	8.4
9	17	15	16	e13	13	17	34	57	88	19	14	7.6
10	15	17	14	e14	15	18	35	57	85	17	15	7.4
11	15	16	14	e14	14	20	34	59	84	17	17	7.4
12	15	17	15	e14	13	19	45	68	83	17	17	7.2
13	13	17	7.9	e14	10	18	48	86	82	16	18	7.5
14	13	16	12	e13	14	20	47	95	77	16	e18	8.2
15	13	15	14	e14	14	22	46	97	76	15	e18	8.4
16	15	13	16	e15	15	24	45	118	73	15	e20	8.7
17	18	15	9.6	e15	18	27	48	108	e68	14	e18	8.8
18	20	16	9.7	e14	18	28	54	91	61	14	e17	8.1
19	e22	13	10	e15	e13	27	56	81	57	14	e16	8.7
20	e22	9.6	9.2	e14	e12	27	63	76	52	14	e14	10
21	e22	12	7.4	14	14	25	67	69	50	14	e13	9.3
22	e21	19	9.5	15	12	29	72	65	42	16	e12	8.8
23	e21	15	12	15	11	26	81	67	37	16	e11	8.6
24	e23	14	10	15	15	25	73	75	34	e16	8.9	8.0
25	e24	6.5	11	14	15	24	62	79	32	e16	8.7	7.8
26	e25	6.0	13	14	16	23	56	83	30	e16	8.4	7.6
27	e23	7.0	16	14	16	21	50	84	29	e16	8.9	7.7
28	e19	10	15	14	15	19	47	90	27	e16	11	7.6
29	e17	14	15	14	---	22	45	95	26	16	9.8	9.0
30	e16	15	12	14	---	22	41	98	e26	17	9.2	16
31	e14	---	15	5.9	---	22	---	106	---	19	9.0	---
TOTAL	507.6	404.1	401.3	428.9	389.0	664	1358	2288	2038	538	451.9	254.8
MEAN	16.4	13.5	12.9	13.8	13.9	21.4	45.3	73.8	67.9	17.4	14.6	8.49
MAX	25	19	17	15	18	29	81	118	115	24	20	16
MIN	9.0	6.0	7.4	5.9	9.0	14	24	39	26	14	8.4	7.2
AC-FT	1010	802	796	851	772	1320	2690	4540	4040	1070	896	505

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1994, BY WATER YEAR (WY)

MEAN	13.0	12.1	10.6	10.3	13.2	22.0	54.9	133	106	36.9	17.4	13.3
MAX	26.8	21.6	19.4	21.4	35.3	48.5	197	481	322	122	51.4	30.5
(WY)	1985	1985	1967	1984	1984	1986	1984	1984	1983	1983	1984	1984
MIN	6.62	7.30	4.29	4.50	5.86	10.1	10.9	21.9	21.1	8.01	4.74	4.20
(WY)	1960	1978	1978	1978	1978	1964	1963	1977	1959	1959	1977	1959

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1958 - 1994	
ANNUAL TOTAL	19317.8		9723.6			
ANNUAL MEAN	52.9		26.6		36.9	
HIGHEST ANNUAL MEAN					96.2	1984
LOWEST ANNUAL MEAN					12.0	1977
HIGHEST DAILY MEAN	345	May 21	118	May 16	633	May 24 1984
LOWEST DAILY MEAN	6.0	Nov 26	5.9	Jan 31	1.8	Jan 26 1979
ANNUAL SEVEN-DAY MINIMUM	9.4	Sep 29	7.7	Sep 8	2.4	Aug 29 1978
ANNUAL RUNOFF (AC-FT)	38320		19290		26750	
10 PERCENT EXCEEDS	136		68		91	
50 PERCENT EXCEEDS	18		16		15	
90 PERCENT EXCEEDS	10		9.0		7.6	

e Estimated

10205000 SEVIER RIVER NEAR SIGURD, UT

LOCATION.--Lat 38°52'24" (revised), long 111°57'14", in $SW^1/_4NE^1/_4SW^1/_4$ 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 mi^2.

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 (REVISED).--Water-stage recorder. Elevation of gage is 5,180 ft above sea level, by barometer. July to September 1912, nonrecording gage 0.3 mi downstream at different datum. July 31, 1914, to Apr. 19, 1917, nonrecording gage and Apr. 20, 1917, to Oct. 16, 1935, water-stage recorder, at present site at datum 1.5 ft higher, Oct. 16, 1935, to Oct. 16, 1990, at datum 3.5 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by reservoirs above station. 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 ft^3/s, May 30, 1922, gage height, 9.6 ft (revised), present datum, from rating curve extended above 600 ft^3/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, 323 ft^3/s, Mar. 31, gage height, 6.26 ft; minimum daily discharge, 1.5 ft^3/s, July 8-10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	94	116	126	202	182	288	53	6.3	1.9	1.7	2.0
2	51	106	115	127	210	160	263	61	8.5	1.9	1.7	1.9
3	63	103	115	128	216	166	253	68	16	1.9	1.8	1.9
4	65	102	112	129	226	171	228	87	18	1.8	1.8	2.8
5	56	98	116	132	224	175	164	77	14	1.7	1.9	2.6
6	47	94	125	133	221	174	132	69	12	1.7	1.8	2.0
7	56	94	119	129	223	173	77	66	9.5	1.6	1.6	2.0
8	62	93	129	119	227	175	66	65	6.6	1.5	1.7	2.1
9	74	92	132	123	232	177	85	66	4.9	1.5	1.7	11
10	80	93	126	135	231	180	138	60	7.4	1.5	1.7	38
11	76	95	126	136	230	191	195	44	5.2	1.7	1.7	46
12	77	99	130	148	229	230	182	26	5.1	1.8	1.7	46
13	85	98	122	174	220	264	159	5.7	6.3	3.0	1.7	43
14	80	98	123	180	224	293	141	5.8	5.2	2.6	1.7	47
15	78	98	126	176	226	312	135	19	3.6	1.6	1.7	52
16	93	98	128	173	226	318	133	44	2.9	1.7	1.7	53
17	98	97	132	171	229	313	124	34	2.5	1.8	1.7	55
18	100	98	115	168	231	304	95	17	2.4	1.8	1.7	61
19	102	98	114	169	234	305	73	9.7	2.4	1.7	1.7	67
20	99	98	113	167	229	299	57	9.8	2.3	1.9	1.7	71
21	98	98	106	166	227	289	41	8.2	4.5	1.9	1.8	72
22	94	108	102	167	227	267	30	6.5	3.5	1.9	1.8	38
23	94	113	113	167	223	245	29	6.1	2.6	1.7	1.7	12
24	90	111	112	169	222	252	29	5.3	2.4	1.7	1.8	8.6
25	89	104	109	170	228	259	29	4.1	2.1	1.7	1.8	9.6
26	90	93	116	169	226	253	32	3.5	2.0	1.8	1.9	27
27	88	98	124	169	223	231	38	3.1	2.0	1.8	1.9	33
28	89	108	125	225	223	198	42	3.3	1.9	1.7	2.0	30
29	90	111	126	263	---	180	42	3.0	2.0	1.7	2.7	18
30	92	113	126	236	---	209	36	2.6	1.9	1.7	2.0	24
31	93	---	120	217	---	286	---	5.0	---	1.7	1.9	---
TOTAL	2497	3003	3713	5061	6289	7231	3336	937.7	166.0	55.9	55.7	879.5
MEAN	80.5	100	120	163	225	233	111	30.2	5.53	1.80	1.80	29.3
MAX	102	113	132	263	234	318	288	87	18	3.0	2.7	72
MIN	47	92	102	119	202	160	29	2.6	1.9	1.5	1.6	1.9
AC-FT	4950	5960	7360	10040	12470	14340	6620	1860	329	111	110	1740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1994, BY WATER YEAR (WY)

MEAN	81.4	101	119	128	180	183	138	115	131	30.3	25.9	53.4
MAX	288	310	591	505	693	634	836	972	2002	367	159	335
(WY)	1984	1981	1985	1984	1984	1984	1984	1984	1983	1983	1983	1985
MIN	15.0	34.6	35.4	45.4	61.0	67.0	4.44	4.17	1.47	.88	1.06	.59
(WY)	1952	1957	1957	1964	1956	1972	1972	1957	1953	1954	1963	1956

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1944 - 1994	
ANNUAL TOTAL	51541.1		33224.8			
ANNUAL MEAN	141		91.0		107	
HIGHEST ANNUAL MEAN					482	1983
LOWEST ANNUAL MEAN					38.7	1966
HIGHEST DAILY MEAN	665	May 30	318	Mar 16	2350	Jun 5 1983
LOWEST DAILY MEAN	2.8	Sep 19	1.5	Jul 8	.00	Oct 3 1955
ANNUAL SEVEN-DAY MINIMUM	6.7	Jul 3	1.6	Jul 5	.03	Oct 3 1955
ANNUAL RUNOFF (AC-FT)	102200		65900		77230	
10 PERCENT EXCEEDS	266		226		231	
50 PERCENT EXCEEDS	102		87		72	
90 PERCENT EXCEEDS	24		1.8		2.1	

10205030 SALINA CREEK NEAR EMERY, UT

LOCATION.--Lat 38°54'43", long 111°31'47", in SE¼SW¼NW¼ sec. 12, T. 22 S., R. 3 E., Sevier County, Hydrologic Unit 16030003, on right bank, 2.5 mi upstream from Soil Conservation Service retention dam, 15.3 mi west of Emery, and 18.4 mi east of Salina.

DRAINAGE AREA.--51.8 mi².

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,000 ft above sea level, 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 July 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.--Peak discharges greater than base discharge of 60 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 13	2000	*74	*3.38	No other peak greater than base discharge.			

Minimum daily discharge, 4.3 ft³/s Feb. 28, Mar.5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.9	7.6	e7.0	e5.2	4.5	6.9	12	17	9.0	8.4	7.9
2	11	10	7.5	e7.4	e5.2	4.7	6.6	13	15	9.1	8.4	7.9
3	12	9.7	e7.4	e6.8	e5.4	4.9	7.4	16	14	8.9	8.3	7.9
4	12	9.9	e8.0	e7.0	e5.8	4.8	6.8	16	14	8.9	8.2	7.8
5	12	9.8	8.6	e7.3	e5.6	4.3	6.5	18	13	8.9	8.1	8.1
6	12	e9.0	e8.2	7.4	e5.3	4.4	6.1	20	12	8.7	8.2	7.5
7	12	e8.5	e7.8	e6.7	5.0	4.5	6.5	23	12	8.4	8.2	8.0
8	12	e9.0	7.5	e6.6	4.8	4.5	6.2	20	11	8.7	8.7	7.9
9	12	e9.0	6.7	e6.8	e4.8	5.2	6.5	20	11	8.6	8.4	7.9
10	12	9.7	6.5	7.1	4.8	5.7	6.1	22	11	8.6	8.4	7.9
11	12	9.1	e6.4	e6.8	5.0	5.4	6.0	28	11	8.6	8.4	7.9
12	13	9.2	e6.0	e6.6	e4.5	5.5	6.1	36	10	8.5	8.4	7.9
13	12	9.5	e5.8	6.7	e4.5	5.8	7.8	52	11	8.5	8.4	7.9
14	11	9.0	e5.8	e6.6	e4.5	5.9	9.4	52	11	8.6	8.9	7.7
15	11	e8.4	e5.8	e6.6	e4.5	6.4	9.7	51	11	8.6	8.3	7.3
16	12	e7.8	e5.7	6.6	e4.5	6.3	11	44	11	8.6	8.1	6.8
17	12	e7.3	e5.6	e6.8	4.5	6.4	13	36	11	8.6	8.2	6.7
18	12	6.9	e5.6	e7.3	4.5	6.3	13	31	10	8.6	7.9	6.7
19	12	e6.0	e5.6	e6.8	4.5	6.0	14	29	10	8.7	7.9	6.9
20	11	e6.5	e5.4	e6.4	e4.5	5.9	16	25	10	8.5	9.0	7.1
21	11	e7.0	e5.4	e6.2	e4.5	5.9	17	24	9.9	8.5	8.7	7.1
22	11	7.1	e5.4	e6.0	e4.5	6.2	18	24	10	8.6	8.7	6.7
23	11	7.4	e5.0	e5.6	e4.6	6.6	16	23	9.8	8.7	8.2	6.7
24	11	e7.0	e5.6	5.8	e4.7	6.0	15	25	9.7	8.7	8.4	6.4
25	10	e6.5	e5.4	5.7	4.7	5.7	12	23	9.5	8.7	8.3	6.5
26	10	e6.8	e5.8	5.7	4.7	5.8	11	21	9.4	8.5	7.8	6.7
27	10	e7.0	e6.4	5.5	4.5	5.8	11	20	9.3	8.4	7.9	6.7
28	10	e7.2	e6.8	5.3	4.3	5.7	10	19	9.1	8.4	7.9	6.9
29	10	e7.8	e6.6	e5.2	---	5.8	9.7	18	9.2	8.4	7.9	7.5
30	12	8.4	e6.4	e5.2	---	6.0	10	17	9.0	8.4	7.9	7.8
31	12	---	e6.6	e5.0	---	6.2	---	18	---	8.4	7.9	---
TOTAL	354	246.4	198.9	198.5	133.9	173.1	301.3	796	330.9	267.3	256.4	220.7
MEAN	11.4	8.21	6.42	6.40	4.78	5.58	10.0	25.7	11.0	8.62	8.27	7.36
MAX	13	10	8.6	7.4	5.8	6.6	18	52	17	9.1	9.0	8.1
MIN	10	6.0	5.0	5.0	4.3	4.3	6.0	12	9.0	8.4	7.8	6.4
AC-FT	702	489	395	394	266	343	598	1580	656	530	509	438

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1994, BY WATER YEAR (WY)

MEAN	10.0	8.30	7.14	6.52	6.40	7.63	15.2	68.8	46.3	17.2	13.8	11.4
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

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1964 - 1994	
ANNUAL TOTAL	6511.2		3477.4			
ANNUAL MEAN	17.8		9.53		18.3	
HIGHEST ANNUAL MEAN					53.0	1984
LOWEST ANNUAL MEAN					4.58	1977
HIGHEST DAILY MEAN	155	May 18	52	May 13	434	May 28 1983
LOWEST DAILY MEAN	2.8	Jan 25	4.3	Feb 28	1.5	Dec 30 1982
ANNUAL SEVEN-DAY MINIMUM	2.9	Jan 19	4.5	Feb 12	1.7	Dec 26 1982
ANNUAL RUNOFF (AC-FT)	12910		6900		13250	
10 PERCENT EXCEEDS	38		14		34	
50 PERCENT EXCEEDS	11		8.0		9.4	
90 PERCENT EXCEEDS	4.0		5.2		5.0	

e Estimated

10206000 SALINA CREEK AT SALINA, UT

LOCATION.--Lat 38°57'24", long 111°51'58", in SW¼NW¼NW¼ sec. 25, T. 21 S., R. 1 W., Sevier County, Hydrologic Unit 16030003, on right bank 150 ft upstream from bridge on U.S. Highway 89 in Salina and 0.8 mi upstream from mouth.

DRAINAGE AREA.--292 mi².

PERIOD OF RECORD.--April to September 1914 (fragmentary), April 1915 to September 1916, October 1917 to September 1919, November 1942 to September 1955, water year 1960 (annual maximum), October 1960 to current year.

REVISED RECORDS.--WSP 1734: Drainage area. WSP 2127: 1953(M), 1960(M), 1965(M). WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 5,140 ft above sea level, estimated on basis of nearby benchmark. Prior to Mar. 23, 1915, nonrecording gage at site 150 ft downstream at different datum. Mar. 23, 1915 to Oct. 16, 1917, nonrecording gage, and Oct. 17, 1917 to Sept. 30, 1919, water-stage recorder at site about 0.2 mi upstream at different datum.

REMARKS.--Records fair except those for flows less than 2.0 ft³/s and estimated daily discharges, which are poor. Diversions above and below station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,650 ft³/s June 7, 1984, gage height, 8.32 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 14	0400	*263	*3.65	May 16	0500	217	3.50

Minimum daily discharge, 0.19 ft³/s July 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.74	20	e20	e23	e17	21	e1.5	2.2	3.8	.19	.49	1.3
2	.89	16	e20	e23	e17	24	1.9	3.7	3.4	.29	.78	.88
3	.91	15	e20	e22	e17	e20	2.3	5.9	3.1	.41	.45	1.1
4	.83	21	e20	22	e18	e20	2.6	4.4	2.0	.50	.36	1.2
5	1.6	14	e20	21	e18	e20	3.4	17	2.5	.51	.33	1.1
6	2.7	13	e19	22	e18	e20	3.3	30	2.5	.43	.33	1.4
7	2.2	14	e19	e22	19	e20	4.9	50	3.2	.49	.35	2.3
8	4.9	16	18	e22	20	e20	1.7	29	1.1	.58	.40	2.2
9	6.2	15	18	24	19	e20	2.0	22	1.3	.51	.51	2.6
10	2.6	19	18	26	19	e20	3.0	14	1.9	.51	.46	2.8
11	1.4	20	18	26	19	e20	3.5	26	1.3	.41	.43	2.3
12	2.6	23	18	21	e19	e20	2.1	72	2.1	.34	.46	2.4
13	1.4	21	17	18	19	e20	2.1	129	1.6	.34	.54	1.5
14	.91	17	e17	21	e20	e20	2.6	169	.64	.43	.70	.49
15	4.9	17	e17	25	e20	e20	2.8	129	.93	.38	1.8	.63
16	17	15	e17	28	20	e14	3.3	134	1.1	.41	.62	.74
17	20	23	e16	24	20	e8.0	7.8	64	.53	.61	.67	.79
18	20	25	e16	26	19	e8.0	5.0	33	1.1	.80	.59	.78
19	19	18	e16	24	18	e8.0	4.3	29	1.0	.52	.83	.72
20	17	e20	e16	24	12	e8.0	13	24	.60	.61	.64	.74
21	16	e20	e16	25	22	e6.0	14	21	.71	.51	6.0	.72
22	16	e26	e16	25	13	e6.0	28	11	.87	.53	1.6	.75
23	17	24	e16	21	27	e6.0	35	4.7	.82	.63	1.1	.73
24	16	19	e17	18	25	e6.0	34	4.2	.37	.76	.47	1.0
25	15	20	e17	17	24	e4.0	12	4.6	.55	.54	.44	.92
26	16	e20	e18	17	26	e4.0	3.2	4.8	.65	.43	.41	.79
27	26	e20	19	15	26	e4.0	2.9	2.9	.40	.52	.92	.73
28	17	e20	20	17	23	e2.0	2.6	2.4	.34	.56	1.6	.69
29	16	e20	21	17	---	e2.0	2.5	2.2	.27	.44	.89	1.0
30	15	e20	e22	17	---	e1.5	1.9	2.2	.24	.45	.81	1.3
31	14	---	e23	e18	---	e1.5	---	2.5	---	.54	1.1	---
TOTAL	311.78	571	565	671	554	394.0	209.2	1049.7	40.92	15.18	27.08	36.60
MEAN	10.1	19.0	18.2	21.6	19.8	12.7	6.97	33.9	1.36	.49	.87	1.22
MAX	26	26	23	28	27	24	35	169	3.8	.80	6.0	2.8
MIN	.74	13	16	15	12	1.5	1.5	2.2	.24	.19	.33	.49
AC-FT	618	1130	1120	1330	1100	781	415	2080	81	30	54	73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1994, BY WATER YEAR (WY)

MEAN	10.5	16.1	13.8	14.0	19.0	21.8	33.9	153	76.9	6.82	5.14	2.84
MAX	59.9	44.0	39.9	35.7	42.1	60.0	187	989	583	76.8	68.4	22.8
(WY)	1985	1985	1984	1986	1986	1986	1984	1984	1983	1984	1984	1983
MIN	2.50	4.66	3.41	3.62	7.82	5.20	.73	.92	.39	.21	.17	.22
(WY)	1965	1977	1991	1991	1978	1963	1967	1977	1977	1961	1976	1962

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1961 - 1994	
ANNUAL TOTAL	11274.19		4445.46			
ANNUAL MEAN	30.9		12.2		31.2	
HIGHEST ANNUAL MEAN					172	1984
LOWEST ANNUAL MEAN					4.37	1961
HIGHEST DAILY MEAN	452	May 17	169	May 14	1620	May 13 1984
LOWEST DAILY MEAN	.37	Jul 15	.19	Jul 1	.00	Aug 13 1962
ANNUAL SEVEN-DAY MINIMUM	.56	Aug 29	.31	Jun 27	.05	Aug 20 1976
ANNUAL RUNOFF (AC-FT)	22360		8820		22620	
10 PERCENT EXCEEDS	58		24		60	
50 PERCENT EXCEEDS	15		6.0		9.6	
90 PERCENT EXCEEDS	.73		.51		.64	

e Estimated

10215700 OAK CREEK NEAR SPRING CITY, UT

LOCATION.--Lat 39°26'52", long 111°25'29", in $SW^1/_4SE^1/_4SW^1/_4$, sec. 1, T. 16 S., R. 4 E., Sanpete County, on right bank about 400 ft upstream from powerplant diversion, 0.8 mi downstream from South Fork, and 4.5 mi southeast of Spring City.

DRAINAGE AREA.--8.35 mi^2.

PERIOD OF RECORD.--October 1964 to September 1974, June 1979 to September 1994 (discontinued).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 7,400 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversion above station. Flow includes discharge of Spring City tunnel (transmountain diversion from Colorado River Basin).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 300 ft^3/s July 23, 1965, gage height, 3.75 ft from floodmark, from rating curve extended above 75 ft^3/s; minimum, 0.93 ft^3/s Mar. 6, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 28	2127	*78	*2.51	No other peak greater than base discharge.			

Minimum daily discharge, 3.0 ft^3/s Jan. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	5.1	4.7	3.7	e3.2	e3.4	3.8	5.3	57	9.4	5.9	4.8
2	5.6	4.6	4.6	3.7	e3.3	e3.5	3.6	5.2	55	9.3	5.8	4.8
3	5.6	4.9	4.6	3.7	e3.4	e3.6	3.7	5.5	52	8.9	5.7	4.9
4	5.6	4.9	4.4	3.7	e3.5	e3.7	3.6	6.0	50	8.6	5.7	4.6
5	5.6	5.1	4.4	3.8	e3.5	e3.7	3.5	7.5	46	8.5	5.7	4.6
6	6.3	5.1	4.4	3.7	e3.6	e3.7	3.5	8.5	43	8.3	5.5	4.6
7	6.3	4.7	4.4	e3.6	e3.5	e3.6	3.6	9.0	38	8.1	5.5	4.6
8	6.2	4.4	4.4	e3.5	e3.3	e3.4	3.4	8.2	37	8.0	5.8	4.6
9	6.0	4.5	4.4	e3.5	e3.4	e3.5	3.6	8.7	36	8.0	5.8	4.6
10	5.8	4.6	4.4	e3.5	e3.5	e3.4	3.5	9.4	35	8.3	5.7	4.6
11	6.2	4.7	4.4	3.5	e3.5	e3.3	3.5	12	34	8.1	5.6	4.6
12	6.5	5.1	4.5	3.5	e3.3	e3.5	3.7	15	32	8.0	5.7	4.6
13	5.9	5.1	e4.3	3.5	e3.4	e3.6	4.2	20	30	7.7	6.0	4.7
14	5.8	5.1	4.4	3.5	e3.5	e3.7	4.3	27	29	7.6	5.6	4.5
15	5.7	5.1	4.4	3.5	e3.6	e3.6	4.3	28	26	7.6	5.4	4.4
16	5.7	5.4	4.4	3.5	e3.6	e3.6	4.6	28	24	7.3	5.3	4.4
17	5.8	4.8	e4.3	3.5	e3.4	3.7	5.0	26	22	7.3	5.1	4.4
18	5.8	4.8	4.4	3.5	e3.3	3.6	5.3	26	21	7.2	5.1	4.4
19	5.5	e4.7	4.2	3.4	e3.2	3.6	5.7	26	20	7.0	5.1	4.4
20	5.4	e4.6	e4.1	3.3	e3.3	3.5	6.4	26	18	6.9	5.6	4.7
21	5.4	4.7	4.3	3.3	e3.3	3.6	6.9	26	17	6.8	6.0	4.5
22	5.4	4.9	3.9	3.3	e3.2	3.7	7.8	27	16	7.2	5.1	4.4
23	5.4	4.8	3.9	3.3	e3.1	3.6	7.9	29	15	6.9	5.1	4.2
24	5.3	e4.6	3.7	3.3	e3.3	3.5	7.2	32	14	6.7	5.1	4.1
25	5.3	e4.5	3.7	3.3	e3.5	3.5	6.3	44	13	6.6	4.8	4.1
26	5.0	e4.4	3.8	3.3	e3.7	3.4	5.9	61	12	6.4	4.8	4.1
27	4.9	e4.6	3.9	3.3	e3.6	3.4	5.5	59	11	6.4	4.8	4.1
28	5.3	4.8	3.9	3.3	e3.6	3.3	5.4	63	10	6.4	4.9	4.1
29	5.0	4.7	3.8	e3.2	---	3.4	5.1	64	9.8	6.2	4.8	6.1
30	4.5	4.6	e3.6	e3.1	---	3.6	5.1	63	9.6	6.2	4.8	6.1
31	5.0	---	3.7	e3.0	---	3.6	---	61	---	6.1	4.8	---
TOTAL	173.4	143.9	130.3	106.8	95.6	109.8	145.9	836.3	832.4	232.0	166.6	137.6
MEAN	5.59	4.80	4.20	3.45	3.41	3.54	4.86	27.0	27.7	7.48	5.37	4.59
MAX	6.5	5.4	4.7	3.8	3.7	3.7	7.9	64	57	9.4	6.0	6.1
MIN	4.5	4.4	3.6	3.0	3.1	3.3	3.4	5.2	9.6	6.1	4.8	4.1
AC-FT	344	285	258	212	190	218	289	1660	1650	460	330	273

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965-74, 1980-93, BY WATER YEAR (WY)

MEAN	5.27	4.62	4.14	3.75	3.67	3.71	5.14	25.8	43.9	16.1	7.77	6.01
MAX	9.05	7.70	6.59	5.53	5.78	5.63	11.5	61.3	92.6	52.5	17.0	10.9
(WY)	1984	1984	1984	1984	1987	1987	1985	1984	1983	1983	1983	1983
MIN	2.98	2.88	3.11	2.66	2.35	2.01	2.87	11.4	12.2	5.95	4.69	3.82
(WY)	1965	1965	1965	1969	1969	1969	1970	1991	1966	1966	1972	1966

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1965-74, 1980-93	
ANNUAL TOTAL	4561.7		3110.6			
ANNUAL MEAN	12.5		8.52		10.9	
HIGHEST ANNUAL MEAN					20.6	1984
LOWEST ANNUAL MEAN					6.80	1966
HIGHEST DAILY MEAN	76	May 31	64	May 29	145	May 31 1984
LOWEST DAILY MEAN	2.7	Feb 4	3.0	Jan 31	1.9	Mar 6 1969
ANNUAL SEVEN-DAY MINIMUM	3.0	Feb 2	3.2	Jan 26	2.0	Mar 14 1969
ANNUAL RUNOFF (AC-FT)	9050		6170		7860	
10 PERCENT EXCEEDS	42		20		26	
50 PERCENT EXCEEDS	5.3		4.8		5.1	
90 PERCENT EXCEEDS	3.1		3.4		3.	

e Estimated

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT

LOCATION.--Lat 39°15'33", long 111°34'45", in NE¼SE¼SE¼ 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 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.--WRD UT-81-1: 1979, 1980(M).

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

REMARKS.--Records poor. Records do not include flow diverted around station in an 8-inch pipeline, for culinary water for the city of Manti, and 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, 682 ft³/s June 9, 1973, gage height, 2.93 ft; minimum, 0.9 ft³/s Nov. 3, 1968.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 16	0031	169	4.18	May 27	1935	*203	*4.32
May 22	0003	141	4.05				

Minimum daily discharge, 4.0 ft³/s Dec. 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	7.2	e6.2	e6.0	5.4	4.3	8.4	19	108	23	8.6	5.2
2	9.1	6.4	e5.8	e6.4	5.9	4.7	8.9	19	95	23	8.4	5.4
3	9.2	7.8	e5.6	e5.8	5.7	5.4	9.1	19	86	23	7.9	5.4
4	9.0	6.9	e5.8	e6.4	5.2	5.5	9.4	21	79	22	7.8	5.2
5	8.9	6.1	e6.0	e6.4	5.0	5.4	8.7	27	72	22	7.6	5.2
6	11	e6.4	e6.0	6.2	4.9	5.0	8.5	33	65	22	7.1	5.1
7	10	e6.0	e6.2	6.1	4.8	5.2	8.7	36	60	21	7.0	5.2
8	10	e6.5	e6.2	6.3	4.8	5.1	8.4	32	53	18	7.1	5.0
9	10	e6.4	e6.4	6.0	4.8	5.0	8.3	32	48	18	7.1	5.0
10	10	e6.4	e6.6	5.7	4.7	5.1	8.2	37	44	18	7.0	4.9
11	12	e6.4	e6.6	5.7	4.6	5.0	8.3	48	41	17	6.8	4.9
12	12	6.4	e6.0	5.7	4.6	5.5	10	71	38	17	6.6	4.9
13	10	e6.2	e5.4	5.7	4.7	5.5	13	109	35	17	6.9	4.8
14	9.5	e6.0	e5.1	5.6	4.7	6.3	15	127	33	17	6.5	4.9
15	9.6	e5.8	e5.0	5.6	4.5	6.7	15	137	31	17	6.0	5.6
16	9.8	e6.0	e5.0	5.5	4.5	7.1	16	138	30	15	5.9	6.0
17	10	e6.2	e4.8	5.5	4.5	7.4	19	107	28	14	6.0	e5.0
18	10	e6.0	e4.7	5.4	4.6	6.8	20	101	27	14	5.9	e4.9
19	9.4	e6.0	e4.6	5.3	4.4	6.6	22	85	29	13	6.2	e5.0
20	9.0	e6.2	e4.5	5.3	4.5	6.6	26	106	31	12	6.6	e5.4
21	8.6	e6.2	e4.4	5.3	4.3	6.7	28	116	30	12	6.9	e5.2
22	8.5	e6.0	e4.0	5.3	4.2	7.3	33	131	29	12	5.9	e5.0
23	8.3	5.9	e4.5	5.3	4.5	7.5	32	97	28	12	5.7	e4.7
24	8.2	e5.6	e4.5	5.4	4.4	6.4	27	108	27	11	5.5	e4.7
25	8.1	e5.4	e4.3	5.3	4.5	6.4	23	111	26	11	5.4	e4.7
26	7.7	e5.0	e4.6	5.3	4.6	6.3	21	133	25	10	5.4	e4.8
27	7.1	e5.2	e5.0	5.3	4.4	6.4	20	139	25	10	5.5	e4.9
28	7.3	e5.5	e5.6	5.0	4.2	6.8	19	141	25	9.9	5.5	e4.9
29	7.2	e5.8	e5.2	5.0	---	6.9	19	137	24	9.5	5.5	e6.4
30	6.0	e6.0	e5.0	5.0	---	7.2	18	129	24	9.2	5.4	e6.4
31	8.6	---	e5.6	5.2	---	7.8	---	125	---	8.9	5.1	---
TOTAL	283.6	183.9	165.2	174.0	131.9	189.9	490.9	2671	1296	478.5	200.8	154.7
MEAN	9.15	6.13	5.33	5.61	4.71	6.13	16.4	86.2	43.2	15.4	6.48	5.16
MAX	12	7.8	6.6	6.4	5.9	7.8	33	141	108	23	8.6	6.4
MIN	6.0	5.0	4.0	5.0	4.2	4.3	8.2	19	24	8.9	5.1	4.7
AC-FT	563	365	328	345	262	377	974	5300	2570	949	398	307

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965-74, 1979-94, BY WATER YEAR (WY)

MEAN	8.46	6.70	5.25	4.78	4.63	6.10	18.5	98.6	136	41.4	16.7	10.5
MAX	18.6	12.5	9.85	8.79	8.46	12.3	87.4	232	317	174	42.3	23.5
(WY)	1984	1985	1984	1984	1984	1986	1985	1984	1983	1983	1983	1983
MIN	4.32	3.77	3.35	3.05	3.13	3.22	5.46	47.1	32.2	11.9	5.75	4.47
(WY)	1990	1993	1979	1981	1967	1991	1967	1990	1966	1966	1966	1966

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1965-74, 1979-94	
ANNUAL TOTAL	10824.5		6420.4			
ANNUAL MEAN	29.7		17.6		29.8	
HIGHEST ANNUAL MEAN					61.0	1984
LOWEST ANNUAL MEAN					14.1	1989
HIGHEST DAILY MEAN	220	May 31	141	May 28	444	Jun 1 1984
LOWEST DAILY MEAN	2.9	Feb 20	4.0	Dec 22	2.4	Jan 8 1981
ANNUAL SEVEN-DAY MINIMUM	3.0	Feb 18	4.4	Dec 19	2.6	Jan 8 1981
ANNUAL RUNOFF (AC-FT)	21470		12730		21600	
10 PERCENT EXCEEDS	110		34		77	
50 PERCENT EXCEEDS	9.5		6.6		8.5	
90 PERCENT EXCEEDS	3.3		4.8		4.0	

e Estimated

10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UT

LOCATION.--Lat 39°09'19", long 111°52'37", in NE¼NE¼SE¼ 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.

DRAINAGE AREA.--4,921 mi².

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 sea level, from topographic map. Prior to Oct. 28, 1938, at same site at datum 0.36 ft higher. April 16, 1986, to June 6, 1989 at site approximately 1.0 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. 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, July 17-21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 378 ft³/s, Jan. 30, gage height, 5.21 ft; minimum daily discharge, 15 ft³/s, Aug. 2-5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	225	249	241	306	276	289	108	102	26	16	32
2	128	232	247	246	297	273	286	127	82	20	15	35
3	130	234	242	247	305	253	272	141	50	17	15	43
4	140	227	239	250	315	256	262	149	62	18	15	43
5	136	262	240	253	327	257	252	163	56	17	15	45
6	122	227	245	252	320	261	218	164	51	27	22	48
7	119	215	248	242	325	247	185	162	50	29	22	52
8	130	208	245	236	329	252	149	164	48	33	34	54
9	146	205	256	240	333	248	140	154	47	33	32	54
10	155	208	253	249	330	248	154	127	47	45	31	57
11	162	214	249	276	333	245	187	111	48	49	35	80
12	176	223	253	285	320	252	214	115	49	47	39	87
13	179	232	241	295	310	280	204	130	49	41	39	86
14	182	223	241	289	316	302	186	168	42	31	37	85
15	177	218	249	288	319	315	168	154	34	32	34	85
16	218	218	251	285	324	333	213	156	31	35	34	92
17	219	234	246	279	328	320	179	151	30	29	34	94
18	219	231	245	279	337	307	171	132	29	29	35	101
19	216	223	234	278	327	296	154	90	29	32	40	134
20	210	214	234	279	317	299	138	85	29	32	40	139
21	203	219	228	277	312	295	136	87	32	32	31	136
22	204	243	222	278	311	283	127	82	33	32	36	135
23	204	249	223	280	301	287	125	70	33	23	27	109
24	216	238	230	282	308	277	135	68	32	26	24	83
25	210	221	229	284	320	290	107	65	32	20	25	79
26	206	212	229	283	325	291	62	64	32	18	22	77
27	214	209	239	282	324	272	92	68	33	18	23	91
28	226	219	248	286	319	257	97	64	31	17	26	96
29	223	238	248	342	---	208	107	60	28	16	27	98
30	222	248	241	370	---	210	108	59	26	16	30	99
31	219	---	239	324	---	236	---	57	---	16	32	---
TOTAL	5642	6769	7483	8577	8938	8426	5117	3495	1277	856	887	2449
MEAN	182	226	241	277	319	272	171	113	42.6	27.6	28.6	81.6
MAX	226	262	256	370	337	333	289	168	102	49	40	139
MIN	119	205	222	236	297	208	62	57	26	16	15	32
AC-FT	11190	13430	14840	17010	17730	16710	10150	6930	2530	1700	1760	4860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1994, BY WATER YEAR (WY)

MEAN	193	236	266	271	332	358	286	375	363	117	109	134
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	41.0	25.7	16.2	17.2
(WY)	1935	1935	1932	1935	1935	1935	1966	1961	1940	1960	1934	1934

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1918 - 1994	
ANNUAL TOTAL	102734		59916			
ANNUAL MEAN	281		164		253	
HIGHEST ANNUAL MEAN					1346	1984
LOWEST ANNUAL MEAN					86.5	1935
HIGHEST DAILY MEAN	1760	May 30	370	Jan 30	5400	May 29 1984
LOWEST DAILY MEAN	40	Jul 12	15	Aug 2	6.0	Jul 18 1977
ANNUAL SEVEN-DAY MINIMUM	52	Jul 8	15	Jul 30	6.6	Jul 14 1977
ANNUAL RUNOFF (AC-FT)	203800		118800		183100	
10 PERCENT EXCEEDS	447		298		470	
50 PERCENT EXCEEDS	209		177		187	
90 PERCENT EXCEEDS	78		29		59	

10218500 SEVIER BRIDGE RESERVOIR NEAR JUAB, UT

LOCATION.--Lat 39°22'20", long 112°01'57", in NW¼NW¼NW¼ sec. 1, T. 17 S., R. 2 W., Juab County, Hydrologic Unit 16030003, at Sevier Bridge Dam on Sevier River, 9.0 mi northeast of Scipio.

DRAINAGE AREA.--5,155 mi².

PERIOD OF RECORD.--January 1914 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Staff gage below gage height 60 ft and wire-weight gage above, at left end of dam. Datum of gage is 4,937.51 ft above sea level.

REMARKS.--Reservoir was formed by a 30-ft earthfill dam. Storage began about 1904. Dam ultimately raised to 90 ft by June 1916. Capacity, 236,000 acre-ft between elevation 4,946.9 ft and elevation 5,017.5 ft (top of flashboard on spillway). No dead storage. Water is used for irrigation.

COOPERATION.--Elevation record provided by Sevier River Commissioner. Revised capacity table, based on Soil Conservation Service survey in 1961, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 271,600 acre-ft, June 21-24, 1983; elevation, 5,020.5 ft; no storage at times in 1927-28, 1930-36, 1951, 1960-61.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 172,700 acre-ft, Apr. 1, elevation, 5,010.9 ft; minimum contents observed, 54,610 acre-ft, Sept. 1, elevation, 4,984.9 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	--	*80,300	--
Oct. 31	--	*91,000	+10,700
Nov. 30	--	*104,200	+13,200
Dec. 31	5,003.11	118,200	+14,000
CAL YR 1993	--	--	+60,990
Jan. 31	--	*135,600	+17,400
Feb. 28	--	*154,400	+18,800
Mar. 31	5,010.81	171,900	+17,500
Apr. 30	--	*156,200	-15,700
May 31	--	*133,400	-22,800
June 30	--	*92,050	-41,350
July 31	--	*69,500	-22,550
Aug. 31	--	*55,070	-14,430
Sept. 30	--	*55,370	+300
WATER YR 1994	--	--	-24,930

(*) No end-of-month gage height reading, contents interpolated.

10219000 SEVIER RIVER NEAR JUAB, UT

LOCATION.--Lat 39°22'29", long 112°02'20", in SE¼SW¼SE¼ 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 Apr. 16, 1914. Elevation of gage is 4,940 ft above sea level, by barometer. Prior to Apr. 16, 1914, staff gage 500 ft upstream at different datum. Apr. 16, 1914 to Apr. 7, 1938, water-stage recorder at present site and datum. Apr. 8, 1938 to Mar. 31, 1942, water-stage recorder at site 1,300 ft upstream at different datum. Apr. 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 (see station 10218500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,190 ft³/s June 25, 1983, gage height, 10.90 ft; no flow many days during April, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,170 ft³/s June 14-16, gage height, 7.79 ft; minimum daily discharge, 2.10 ft³/s many days in October, November, and September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.1	2.5	2.9	4.8	5.0	135	787	307	510	397	257
2	2.5	2.1	2.5	2.9	4.8	4.8	263	786	308	509	359	256
3	2.5	2.1	2.5	3.0	4.8	4.6	264	782	308	509	358	254
4	2.5	2.1	2.5	2.9	4.8	4.3	264	781	308	509	237	254
5	2.5	2.1	2.5	3.2	4.8	4.2	263	778	308	505	137	193
6	2.5	2.1	2.5	3.2	4.7	4.0	264	775	310	509	138	128
7	2.6	2.1	2.5	3.3	5.1	3.8	264	778	311	507	137	124
8	2.8	2.1	2.4	3.3	5.6	3.8	266	543	311	509	136	52
9	2.8	2.1	2.5	3.3	4.8	3.8	267	314	311	305	137	53
10	2.7	2.1	2.5	3.3	4.7	3.8	266	313	311	145	137	52
11	2.6	2.1	2.5	3.7	4.5	3.8	267	313	579	144	137	52
12	2.4	2.3	2.7	3.8	4.3	3.8	266	314	818	144	137	51
13	2.5	2.1	2.5	3.8	4.3	3.8	267	315	817	145	137	27
14	2.4	2.1	2.5	3.8	4.2	3.8	269	315	1010	145	136	2.7
15	2.4	2.1	2.5	3.8	4.0	3.7	266	316	1160	145	136	2.7
16	2.1	2.1	2.5	3.8	4.3	3.7	266	314	1160	145	258	2.7
17	2.5	2.1	2.5	3.8	4.6	3.5	267	313	1150	145	424	2.5
18	2.3	2.2	2.5	3.8	4.4	3.4	378	312	1150	144	421	2.5
19	2.1	2.1	2.5	3.8	4.9	3.8	518	313	1150	167	420	2.5
20	2.1	2.1	2.5	3.9	5.0	3.4	519	312	1140	206	419	2.5
21	2.1	2.1	2.8	4.0	5.0	3.3	512	310	1130	206	417	2.5
22	2.1	2.2	2.9	4.3	5.0	3.5	500	310	1120	206	192	2.5
23	2.2	2.3	2.9	4.3	4.7	3.3	490	310	881	208	24	2.5
24	2.3	2.1	2.9	4.3	4.9	3.3	483	311	516	209	104	2.5
25	2.1	2.1	2.9	4.4	4.9	3.3	479	309	514	211	261	2.2
26	2.1	2.3	3.2	4.4	5.1	3.3	575	308	513	212	260	2.1
27	2.1	2.5	e3.1	4.5	5.1	3.3	782	307	512	214	261	2.5
28	2.1	2.5	e3.1	4.7	4.9	3.3	785	307	512	604	259	2.5
29	2.1	2.5	e3.0	4.8	---	3.3	785	306	512	936	259	2.7
30	2.1	2.5	2.9	4.8	---	3.3	786	306	512	929	258	2.5
31	2.1	---	2.9	4.8	---	3.2	---	307	---	721	257	---
TOTAL	72.7	65.4	82.7	118.6	133.0	115.2	11976	13165	19949	10703	7350	1795.6
MEAN	2.35	2.18	2.67	3.83	4.75	3.72	399	425	665	345	237	59.9
MAX	2.8	2.5	3.2	4.8	5.6	5.0	786	787	1160	936	424	257
MIN	2.1	2.1	2.4	2.9	4.0	3.2	135	306	307	144	24	2.1
AC-FT	144	130	164	235	264	228	23750	26110	39570	21230	14580	3560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1994, BY WATER YEAR (WY)

MEAN	64.6	34.0	34.8	60.3	58.4	114	303	743	604	544	361	171
MAX	640	326	757	1295	1184	1535	1782	3135	4178	3293	1599	737
(WY)	1923	1913	1986	1984	1984	1983	1984	1984	1983	1983	1983	1923
MIN	1.00	.60	.45	.76	.94	1.01	2.00	371	138	65.4	25.0	1.34
(WY)	1961	1965	1965	1965	1965	1965	1941	1934	1964	1934	1934	1961

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1912 - 1994	
ANNUAL TOTAL	64085.0		65526.2			
ANNUAL MEAN	176		180		259	
HIGHEST ANNUAL MEAN					1322	1984
LOWEST ANNUAL MEAN					94.2	1961
HIGHEST DAILY MEAN	1180	Jun 24	1160	Jun 15	4920	Jun 25 1983
LOWEST DAILY MEAN	1.0	Jan 5	2.1	Oct 16	.00	Mar 7 1918
ANNUAL SEVEN-DAY MINIMUM	1.1	Jan 1	2.1	Oct 25	.00	Apr 9 1990
ANNUAL RUNOFF (AC-FT)	127100		130000		187700	
10 PERCENT EXCEEDS	686		512		760	
50 PERCENT EXCEEDS	2.5		4.8		30	
90 PERCENT EXCEEDS	1.4		2.2		2.0	

e Estimated

10219200 CHICKEN CREEK NEAR LEVAN, UT

LOCATION.--Lat 39°33'00", long 111°49'31", in NE¼NE¼SW¼ sec. 33, T. 14 S., R. 1 E., Juab County, Hydrologic Unit 16030005, on left bank 125 ft upstream from county road culvert, 50 ft upstream from diversion structure, 0.5 mi upstream from mouth of canyon, and 2.0 mi east of Levan.

DRAINAGE AREA.--27.9 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 5,540 ft above sea level, from topographic map. Prior to Jan. 18, 1978 at site 350 ft downstream at different datum. Jan. 18, 1978 to June 19, 1986 at site 600 ft downstream at same datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 390 ft³/s Sept. 8, 1981, gage height, 5.70 ft, from rating curve extended above 250 ft³/s on basis of velocity-area study; no flow Feb. 11, 14, 1966, minimum daily discharge, no flow Dec. 24, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 18	0900	*5.9	*20.95				

Minimum daily discharge, 0.53 ft³/s Nov. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.5	1.4	1.2	e.95	1.2	2.1	5.3	4.5	1.3	1.1	.75
2	1.7	1.5	1.4	1.1	e.88	1.2	2.0	5.2	4.1	1.4	1.1	.75
3	1.8	1.5	1.5	1.1	e.95	1.4	2.2	5.2	4.0	1.5	1.0	.90
4	1.7	1.5	1.5	1.2	1.0	1.5	2.6	5.5	3.8	1.3	1.1	.80
5	1.7	1.5	1.4	1.2	1.1	1.5	2.4	5.5	3.3	1.3	1.0	.75
6	1.7	1.4	1.4	1.1	.98	1.5	2.2	5.6	3.0	1.3	1.0	.85
7	2.0	1.5	1.3	e1.1	1.0	1.6	2.5	5.5	2.8	1.3	1.0	.92
8	2.0	1.4	1.4	e1.2	e1.1	1.7	2.5	5.7	2.8	1.3	1.0	.84
9	2.2	1.4	1.4	1.3	e1.1	1.6	2.4	5.3	2.7	1.2	1.2	.85
10	2.0	1.4	1.3	1.2	1.0	1.6	2.9	5.3	2.6	1.2	1.3	.88
11	1.9	1.3	1.2	e1.0	1.2	1.5	3.0	5.4	2.5	1.2	1.3	.84
12	2.0	1.5	e1.2	1.1	e1.1	1.5	3.2	5.3	2.6	1.3	.98	.86
13	1.9	1.5	e1.3	1.2	e.92	1.6	3.4	5.3	2.3	1.3	.87	.89
14	1.9	1.3	e1.2	1.1	e1.0	1.6	3.6	5.2	1.9	1.4	.90	.93
15	1.8	1.3	e1.1	1.1	e1.1	1.7	4.5	5.3	2.0	1.4	.90	.93
16	1.8	1.4	e1.2	1.1	1.1	1.8	4.5	4.9	1.9	1.3	.76	.84
17	1.9	1.4	e1.1	e1.0	1.3	1.8	5.1	4.9	2.0	1.2	.71	.85
18	2.0	1.4	e1.0	e.96	1.7	1.9	5.5	4.7	2.1	1.3	.71	.82
19	1.9	1.3	e.96	e1.0	1.2	2.0	5.4	4.5	2.0	1.3	.85	.81
20	1.7	e1.3	e.94	e1.0	e1.1	1.6	5.3	4.5	2.0	1.3	1.0	.96
21	1.7	1.3	e.93	e1.0	1.1	.55	5.5	4.4	2.1	1.2	1.0	.87
22	1.7	e1.2	e.94	1.0	e1.0	1.5	5.5	4.0	2.1	1.2	.92	.81
23	1.7	e1.1	.94	1.1	e1.0	2.6	5.5	4.0	1.7	1.2	.81	.80
24	1.6	e1.0	e.93	1.3	e1.1	2.1	5.2	4.1	1.7	1.1	.82	.81
25	1.6	e1.1	e.89	1.1	1.2	2.0	4.8	4.1	1.5	1.1	.79	.76
26	1.6	e.93	.91	1.1	1.3	2.0	4.6	4.4	1.4	1.0	.76	.77
27	1.7	e.60	1.1	1.1	1.3	1.9	4.7	4.5	1.4	1.2	.78	.78
28	1.7	.53	1.2	.98	1.3	1.7	4.9	4.2	1.4	1.1	.81	.73
29	1.6	.75	1.1	e1.0	---	1.7	5.4	4.3	1.4	1.0	.76	1.2
30	1.5	1.0	e1.0	1.1	---	1.7	5.2	3.9	1.4	1.1	.78	1.3
31	1.5	---	1.2	e1.0	---	1.8	---	4.5	---	1.2	.74	---
TOTAL	55.1	37.81	36.34	34.04	31.08	51.35	118.6	150.5	71.0	38.5	28.75	25.85
MEAN	1.78	1.26	1.17	1.10	1.11	1.66	3.95	4.85	2.37	1.24	.93	.86
MAX	2.2	1.5	1.5	1.3	1.7	2.6	5.5	5.7	4.5	1.5	1.3	1.3
MIN	1.5	.53	.89	.96	.88	.55	2.0	3.9	1.4	1.0	.71	.73
AC-FT	109	75	72	68	62	102	235	299	141	76	57	51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1994, BY WATER YEAR (WY)

MEAN	2.57	2.17	1.79	1.81	2.15	4.07	15.9	34.6	15.0	5.96	3.87	2.94
MAX	8.16	6.97	6.98	6.12	5.56	15.9	90.1	264	115	24.4	14.2	10.5
(WY)	1984	1984	1984	1984	1986	1983	1984	1984	1983	1983	1983	1983
MIN	.22	.30	.023	.020	.016	.34	2.85	1.61	.89	.43	.56	.25
(WY)	1989	1990	1990	1990	1990	1988	1977	1992	1992	1992	1992	1988

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1963 - 1994	
ANNUAL TOTAL	1952.53		678.92			
ANNUAL MEAN	5.35		1.86		7.76	
HIGHEST ANNUAL MEAN					41.2	1984
LOWEST ANNUAL MEAN					.98	1992
HIGHEST DAILY MEAN	31	May 7	5.7	May 8	380	Jun 1 1983
LOWEST DAILY MEAN	.26	Jan 5	.53	Nov 28	.00	Dec 24 1990
ANNUAL SEVEN-DAY MINIMUM	.33	Jan 4	.77	Aug 27	.01	Dec 12 1989
ANNUAL RUNOFF (AC-FT)	3870		1350		5620	
10 PERCENT EXCEEDS	15		4.5		16	
50 PERCENT EXCEEDS	2.0		1.3		2.8	
90 PERCENT EXCEEDS	.65		.86		.70	

e Estimated

10224000 SEVIER RIVER NEAR LYNNDYL, UT

LOCATION.--Lat 39°28'55", long 112°23'35", in NW¼NE¼SE¼ 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.

WATER-DISCHARGE RECORDS

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. Prior to Oct. 1, 1979 at site 80 ft upstream. Prior to Apr. 23, 1991 at site 80 ft downstream. Elevation of gage is 4,660 ft above sea level, by barometer.

REMARKS.--Records good except for estimated daily discharges, which are poor. 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 June 15-17, 1983; minimum, 2.4 ft³/s Jan. 26, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,070 ft³/s June 18, gage height, 7.46 ft; minimum daily discharge, 19.0 ft³/s Feb. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	51	e62	e33	e37	59	42	723	302	437	720	181
2	24	53	e60	e36	e37	56	42	731	302	438	416	179
3	22	54	e58	e36	e38	54	174	730	303	435	327	169
4	21	54	58	e32	e37	53	249	746	285	435	309	180
5	29	54	57	33	e37	53	262	731	252	449	271	190
6	40	54	57	e32	e40	52	268	720	260	446	154	198
7	48	54	55	e30	42	57	277	710	271	450	141	136
8	51	54	60	e36	e41	60	282	699	273	473	129	127
9	54	54	55	e40	e39	60	284	614	272	464	106	115
10	63	54	54	e39	e40	60	287	351	264	404	98	74
11	62	54	71	e41	e38	57	291	310	261	210	87	60
12	63	57	59	42	e35	53	285	292	343	198	88	66
13	70	60	59	43	e37	52	280	283	615	190	82	60
14	63	58	54	40	e38	52	284	262	632	186	95	61
15	55	56	58	39	e40	51	284	262	704	186	97	63
16	53	55	61	39	41	52	288	271	900	189	101	46
17	55	54	e50	39	41	53	288	268	1030	171	119	43
18	61	54	e44	40	133	53	288	267	1040	145	292	44
19	63	54	e43	40	151	49	322	266	1050	141	337	44
20	59	54	e43	42	81	47	470	282	1030	123	358	46
21	56	54	e39	41	56	46	488	284	977	126	349	38
22	55	54	e39	40	48	46	495	290	918	135	361	42
23	55	56	e39	39	46	40	498	290	906	130	318	45
24	54	58	e41	40	29	45	489	281	848	152	104	43
25	54	e52	e37	40	19	43	464	279	485	160	51	43
26	53	e60	e39	40	25	44	460	293	440	162	101	40
27	53	e61	e41	41	51	43	481	299	420	171	197	25
28	53	e62	e41	41	68	41	637	307	408	170	203	22
29	54	e64	e36	40	---	41	697	288	442	242	208	32
30	53	e63	e33	38	---	42	713	301	446	661	196	38
31	53	---	e30	e36	---	43	---	299	---	737	192	---
TOTAL	1574	1676	1533	1188	1365	1557	10669	12729	16679	9016	6607	2450
MEAN	50.8	55.9	49.5	38.3	48.7	50.2	356	411	556	291	213	81.7
MAX	70	64	71	43	151	60	713	746	1050	737	720	198
MIN	21	51	30	30	19	40	42	262	252	123	51	22
AC-FT	3120	3320	3040	2360	2710	3090	21160	25250	33080	17880	13100	4860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1994, BY WATER YEAR (WY)

MEAN	64.3	70.2	68.4	93.7	113	177	298	606	548	463	297	108
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 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1943 - 1994	
ANNUAL TOTAL	65459		67043			
ANNUAL MEAN	179		184		243	
HIGHEST ANNUAL MEAN					1369	1984
LOWEST ANNUAL MEAN					103	1961
HIGHEST DAILY MEAN	926	Jun 26	1050	Jun 19	5020	Jun 15 1983
LOWEST DAILY MEAN	14	Feb 4	19	Feb 25	4.5	Jan 1 1964
ANNUAL SEVEN-DAY MINIMUM	14	Feb 12	30	Oct 1	4.9	Jan 22 1980
ANNUAL RUNOFF (AC-FT)	129800		133000		176000	
10 PERCENT EXCEEDS	569		464		633	
50 PERCENT EXCEEDS	60		60		70	
90 PERCENT EXCEEDS	34		39		18	

e Estimated

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1951 to September 1980, October 1980 to September 1981, continuous.
WATER TEMPERATURES: March 1951 to September 1980, October 1980 to September 1981, continuous.

INSTRUMENTATION.--Conductance and water temperature recorder October 1980 to September 1981.

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, 8,300 microsiemens Dec. 27, 1962; minimum daily, 395 microsiemens Feb. 17, 1980.
WATER TEMPERATURES: Maximum recorded, 33.0°C Aug. 23, 1981; minimum, 0.0°C on many days during winter period of most years.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT , 1993											
07...	1430	49	1780	8.4	17.0	16.0	1.3	9.3	639	58	180
JAN , 1994											
13...	1115	45	1900	8.4	12.0	2.0	0.80	11.6	654	K2	260
MAY											
05...	1200	749	1720	8.5	29.0	16.0	80	8.0	641	48	150
JUL											
20...	0945	120	1720	8.5	30.0	21.0	17	7.5	644	91	270
AUG											
16...	0930	101	1720	8.5	29.0	21.5	29	7.1	642	230	56

DATE	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3
OCT , 1993										
07...	450	67	68	200	49	4	5.0	5	293	248
JAN , 1994										
13...	490	78	71	200	47	4	5.3	17	286	262
MAY										
05...	390	64	57	200	52	4	5.5	12	288	256
JUL										
20...	380	54	59	190	52	4	5.6	10	273	240
AUG										
16...	350	46	57	200	--	5	--	11	245	219

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
OCT , 1993										
07...	260	270	0.40	15	1060	1040	1.44	139	0.310	<0.010
JAN , 1994										
13...	260	290	0.30	17	1150	1080	1.56	138	0.870	<0.010
MAY										
05...	240	250	0.40	22	1000	995	1.36	2020	0.620	<0.010
JUL										
20...	250	260	0.40	19	1020	985	1.39	330	0.410	<0.010
AUG										
16...	250	280	0.40	17	1030	--	--	--	0.210	<0.010

K Results bases on colony count outside acceptable range (non-ideal colony count).

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)
OCT , 1993										
07...	0.310	0.310	0.010	0.01	--	<0.20	--	<0.010	<0.010	<0.010
JAN , 1994										
13...	0.870	0.870	0.040	0.05	--	<0.20	--	<0.010	<0.010	<0.010
MAY										
05...	0.620	0.620	0.020	0.03	0.48	0.50	1.1	0.130	<0.010	<0.010
JUL										
20...	0.410	0.410	0.010	0.01	0.29	0.30	0.71	0.040	<0.010	<0.010
AUG										
16...	0.210	0.210	0.020	0.03	--	<0.20	--	0.020	0.020	<0.010

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT , 1993							
07...	1430	<10	63	<3	<3	56	5
JAN , 1994							
13...	1115	<10	77	<3	<3	53	19
JUL							
20...	0945	<10	73	<3	4	54	2
AUG							
16...	0930	<10	68	<3	<3	54	1

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)
OCT , 1993						
07...	<10	<1	<1	<1.0	760	<6
JAN , 1994						
13...	<10	<1	<1	<1.0	770	<6
JUL						
20...	<10	<1	<1	<1.0	820	9
AUG						
16...	<10	<1	<1	<1.0	800	7

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	TEMPER-ATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT , 1993						
07...	1430	49	16.0	--	27	3.6
JAN , 1994						
13...	1115	45	2.0	37	23	2.8
MAY						
05...	1200	749	16.0	79	354	716
JUL						
20...	0945	120	21.0	96	72	23
AUG						
16...	0930	101	21.5	96	89	24

10224100 OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UT

LOCATION.--Lat 39°21'23", long 112°13'55", in NE¼NE¼NW¼ sec. 7, T. 17 S., R. 3 W., Millard County, Hydrologic Unit 16030005, Fish Lake National Forest, on right bank 0.3 mi upstream from a 12-inch pipeline diversion at Walker's Fork and 5.7 mi east of Oak City.

DRAINAGE AREA.--5.58 mi².

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,480 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120 ft³/s Apr. 29, 1973, gage height, 2.21 ft; minimum, 0.03 ft³/s Dec. 31, 1967, result of freezeup.

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

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 22	2100	*11	*1.08	No other peak greater than base discharge.			

Minimum daily discharge, 0.22 ft³/s several days in August and September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	.49	.45	e.46	e.41	.54	2.6	7.7	2.8	.79	.32	.24
2	.34	.49	.45	e.47	e.42	.56	2.5	7.6	2.5	.79	.31	.22
3	.35	.49	.45	e.48	e.42	.60	2.7	7.6	2.3	.77	.26	.22
4	.35	.49	.45	.49	e.43	.63	3.1	7.8	2.1	.74	.25	.22
5	.36	.49	.45	.49	e.43	.67	3.1	8.4	2.0	.70	.25	.22
6	.40	e.47	.45	.49	.45	.70	3.0	8.8	1.8	.67	.25	.23
7	.41	e.46	e.43	e.48	.45	.73	3.3	9.3	1.7	.67	.25	.23
8	.39	e.47	.45	e.45	.49	.77	3.4	9.3	1.6	.63	.26	.23
9	.39	e.48	.45	e.46	.45	.81	3.9	9.1	1.6	.57	.36	.22
10	.38	.49	.45	e.45	.45	.86	4.1	9.0	1.4	.52	.55	.22
11	.46	.49	.45	.45	.47	.96	4.3	8.8	1.3	.51	.34	.22
12	.40	.50	e.44	.45	.45	1.0	5.1	8.5	1.2	.52	.31	.23
13	.40	.49	e.43	.45	.45	1.1	5.9	8.3	1.2	.49	.30	.23
14	.40	.53	.47	.45	.45	1.2	6.6	8.1	1.2	.47	.29	.24
15	.40	e.52	.49	e.45	.45	1.3	7.2	7.8	1.1	.43	.28	.24
16	.40	e.52	.49	e.44	.46	1.6	7.5	7.6	1.1	.40	.26	.24
17	.48	e.50	e.45	e.43	.57	2.0	8.2	7.4	1.1	.38	.26	.24
18	.49	e.49	e.43	e.44	.54	2.3	8.5	6.9	1.0	.37	.28	.24
19	.43	e.48	e.42	e.44	e.47	2.7	8.7	6.4	1.0	.37	.30	.24
20	.42	e.48	e.42	e.43	e.43	2.9	9.4	6.0	1.0	.38	.29	.30
21	.45	.49	e.42	e.42	.48	2.9	9.9	5.5	1.1	.40	.27	.29
22	.45	e.45	e.42	e.42	.48	3.1	10	5.1	1.0	.41	.24	.26
23	.45	e.43	e.42	e.42	.46	2.9	10	4.7	.97	.41	.23	.24
24	.45	e.42	e.42	.46	.50	2.8	10	4.3	.96	.40	.23	.24
25	.45	e.41	e.42	.45	.51	2.7	10	4.0	.91	.34	.22	.24
26	.46	e.44	e.44	.47	.51	2.6	9.7	3.9	.87	.33	.22	.24
27	.49	e.44	e.46	.47	.55	2.5	9.0	3.7	.87	.33	.24	.24
28	.49	e.44	e.48	e.45	.54	2.4	8.7	3.5	.84	.32	.24	.24
29	.49	.45	e.47	e.44	---	2.3	8.3	3.2	.83	.31	.24	.39
30	.49	.45	e.46	e.42	---	2.3	7.8	3.0	.79	.32	.23	.35
31	.49	---	e.44	e.41	---	2.4	---	3.1	---	.33	.24	---
TOTAL	13.15	14.24	13.82	13.98	13.17	52.83	196.5	204.4	40.14	15.07	8.57	7.40
MEAN	.42	.47	.45	.45	.47	1.70	6.55	6.59	1.34	.49	.28	.25
MAX	.49	.53	.49	.49	.57	3.1	10	9.3	2.8	.79	.55	.39
MIN	.34	.41	.42	.41	.41	.54	2.5	3.0	.79	.31	.22	.22
AC-FT	26	28	27	28	26	105	390	405	80	30	17	15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1994, BY WATER YEAR (WY)

MEAN	.69	.80	.92	.90	1.21	2.72	8.68	12.7	4.37	1.10	.61	.52
MAX	2.64	3.09	3.03	2.37	4.43	9.68	21.2	41.5	26.1	5.58	2.59	2.25
(WY)	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983	1983
MIN	.29	.41	.40	.45	.40	.48	1.29	1.18	.36	.22	.14	.17
(WY)	1993	1993	1991	1994	1977	1977	1977	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1965 - 1994	
ANNUAL TOTAL	1100.15		593.27			
ANNUAL MEAN	3.01		1.63		2.94	
HIGHEST ANNUAL MEAN					10.4	1983
LOWEST ANNUAL MEAN					.67	1977
HIGHEST DAILY MEAN	18	May 17	10	Apr 22	73	Apr 29 1973
LOWEST DAILY MEAN	.27	Sep 11	.22	Aug 25	.11	Aug 20 1992
ANNUAL SEVEN-DAY MINIMUM	.29	Sep 6	.22	Sep 2	.13	Jul 29 1992
ANNUAL RUNOFF (AC-FT)	2180		1180		2130	
10 PERCENT EXCEEDS	11		6.2		8.2	
50 PERCENT EXCEEDS	.75		.47		.90	
90 PERCENT EXCEEDS	.38		.25		.38	

e Estimated

10234500 BEAVER RIVER NEAR BEAVER, UT

LOCATION.--Lat 38°16'50", long 112°34'03", in SW¼SE¼SE¼ sec. 18, T. 29 S., R. 6 W., Beaver County, Hydrologic Unit 16030007, on left bank 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. Elevation of gage is 6,200 ft above sea level, from topographic map. Prior to Mar. 30, 1914, nonrecording gage, and Mar. 30, 1914 to Oct. 15, 1937, water-stage recorder, at site 800 ft downstream at different datum. Oct. 16, 1937 to Mar. 20, 1959, at site 1,800 ft upstream at different datum. Mar. 21, 1959 to Mar. 21, 1978 at site 3,800 ft upstream at different datum. Mar. 21, 1978 to May 28, 1983, at site 1,800 ft upstream at different datum. Datum was raised 1.0 ft June 21, 1985, present location.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion for irrigation above station. Water diverted for hydroelectric power, but returned to stream above station. Some regulation by powerplants and several small reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft³/s July 22, 1936, gage height, 7.27 ft, site and 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 (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
a Dec. 24	1145	e18	*2.37	May 15	2145	*189	1.69

a Backwater from ice.

Minimum daily discharge, 16 ft³/s, Jan. 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	18	23	17	e18	19	29	39	121	40	30	19
2	20	17	22	17	e18	20	27	40	107	38	29	19
3	19	18	26	18	e18	22	29	43	103	37	28	19
4	20	19	21	18	e18	24	29	49	100	36	26	19
5	18	18	21	18	e18	25	28	59	93	34	24	19
6	23	17	21	18	18	23	26	70	95	34	22	19
7	25	17	20	e18	17	22	26	78	100	33	23	18
8	24	18	18	e18	e17	22	25	66	93	33	23	17
9	24	18	18	e19	e17	22	25	62	88	32	25	18
10	24	19	19	19	17	22	24	65	86	32	25	17
11	25	20	19	e20	18	22	24	74	91	31	28	17
12	25	20	19	e20	e18	22	24	90	98	30	29	17
13	22	18	e19	20	e18	22	28	122	96	29	33	18
14	22	17	e19	19	18	23	34	137	93	26	26	17
15	22	18	19	17	18	25	39	140	94	26	25	18
16	22	19	19	16	18	26	44	148	90	26	23	18
17	24	19	e19	e18	19	27	50	117	84	26	22	18
18	26	20	e19	18	18	29	54	96	83	27	22	18
19	24	17	e19	18	18	26	53	90	80	30	23	18
20	22	21	e19	17	18	24	58	83	76	31	23	22
21	22	21	e18	18	17	22	62	78	76	33	26	20
22	22	20	e18	17	18	23	68	84	74	36	23	19
23	21	19	e18	18	e18	23	73	94	67	33	18	18
24	21	17	e18	17	e19	23	64	101	63	33	22	18
25	21	e17	e18	18	19	22	52	98	48	33	20	18
26	20	e18	e18	18	20	22	50	102	45	32	19	18
27	20	e22	e18	17	19	21	45	100	44	32	19	17
28	21	e24	e19	18	19	21	43	106	43	32	20	17
29	21	25	20	e18	---	23	41	113	40	31	20	19
30	19	23	e20	18	---	25	34	119	41	31	19	31
31	17	---	17	e18	---	26	---	130	---	28	18	---
TOTAL	675	574	601	558	506	718	1208	2793	2412	985	733	560
MEAN	21.8	19.1	19.4	18.0	18.1	23.2	40.3	90.1	80.4	31.8	23.6	18.7
MAX	26	25	26	20	20	29	73	148	121	40	33	31
MIN	17	17	17	16	17	19	24	39	40	26	18	17
AC-FT	1340	1140	1190	1110	1000	1420	2400	5540	4780	1950	1450	1110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1994, BY WATER YEAR (WY)

MEAN	22.0	20.5	18.5	17.0	17.2	21.0	47.8	148	154	67.0	40.0	25.6
MAX	37.8	47.0	37.7	26.5	27.9	44.9	93.1	409	638	198	98.0	63.3
(WY)	1985	1984	1984	1985	1984	1986	1986	1984	1983	1983	1983	1983
MIN	13.3	11.7	9.95	9.96	11.4	12.9	18.6	25.7	27.9	14.9	11.8	10.7
(WY)	1978	1978	1977	1977	1977	1977	1975	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1961 - 1994	
ANNUAL TOTAL	23636		12323			
ANNUAL MEAN	64.8		33.8		50.0	
HIGHEST ANNUAL MEAN					119	1983
LOWEST ANNUAL MEAN					16.1	1977
HIGHEST DAILY MEAN	438	May 29	148	May 16	884	May 24 1984
LOWEST DAILY MEAN	15	Jan 4	16	Jan 16	7.2	Dec 20 1976
ANNUAL SEVEN-DAY MINIMUM	16	Jan 3	17	Sep 8	8.4	Dec 19 1976
ANNUAL RUNOFF (AC-FT)	46880		24440		36260	
10 PERCENT EXCEEDS	171		83		113	
50 PERCENT EXCEEDS	26		22		23	
90 PERCENT EXCEEDS	17		18		14	

e Estimated

10237000 BEAVER RIVER AT ADAMSVILLE, UT

LOCATION.--Lat 38°15'13", long 112°45'56", in NE¼SW¼SW¼ sec. 28, T. 29 S., R. 8 W., Beaver County, Hydrologic Unit 16030007, at right upstream corner of bridge on State Highway 21, 1.6 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 for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage is 5,550 ft above sea level, from topographic map. Prior to Sept. 15, 1936, water-stage recorder and Sept. 15, 1936, to Oct. 15, 1937, nonrecording gage, at site 1.2 mi downstream at different datum. Oct. 16, 1937, to May 28, 1946, water-stage recorder at site 1.3 mi downstream at different datum. May 29, 1946, to Mar. 19, 1970, at site 1.8 mi downstream at different datum. Mar. 19, 1970, to July 25, 1979 at site 400 ft downstream at different datum. July 26, 1979, to Feb. 5, 1992, at site 50 ft upstream at same datum.

REMARKS.--Records fair except those for estimated daily discharges, and flows less than 2.0 ft³/s, which are poor. One small diversion between station and Minersville Reservoir. Several ditches above station divert practically entire flow during irrigation season to supply Adamsville and Beaver irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,700 ft³/s, June 19, 20, 1983; no flow during summer and fall months in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 62 ft³/s Dec. 14, gage height, 3.75 ft; maximum gage height, 3.98 ft, Dec. 25, backwater from ice; minimum daily discharge, 0.11 ft³/s, July 14, Aug. 22, 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.41	43	43	37	e34	37	24	.90	.65	.19	.21	.24
2	.41	42	43	38	e34	38	13	.96	.32	.18	.24	.25
3	.41	43	42	39	e34	38	9.9	.99	.26	.16	.22	.27
4	.40	43	41	38	35	38	9.9	1.0	.68	.17	.18	.29
5	.41	42	41	41	33	40	11	.97	.49	.17	.17	.28
6	.44	40	39	42	33	39	11	1.1	.21	.19	.19	.36
7	.49	40	40	40	33	38	13	.95	.20	.18	.20	.42
8	.53	40	40	41	36	38	13	1.1	.21	.18	.25	.43
9	.64	40	40	43	36	37	21	1.7	.29	.16	.35	.35
10	.61	42	40	38	36	37	21	1.7	.28	.13	.23	.34
11	.56	46	40	39	36	38	21	1.4	.24	.12	.18	.41
12	1.1	52	40	36	e36	37	18	1.0	.22	.12	.20	.44
13	3.3	46	39	42	e36	35	15	.93	.20	.12	.27	.51
14	8.3	43	43	40	38	35	12	12	.18	.11	.27	.56
15	21	40	42	39	39	37	5.3	8.6	.15	.14	.33	.57
16	30	41	40	38	37	37	2.2	11	.15	.14	.30	.58
17	42	41	39	39	41	37	.75	4.6	.14	.14	.32	.61
18	41	41	40	38	46	39	.52	1.6	.15	.18	.38	.63
19	35	39	37	38	40	38	.48	.37	.14	.19	.47	.60
20	30	38	36	37	37	39	.44	.31	.16	.17	.66	.61
21	32	40	e36	38	38	34	.62	.31	.22	.19	.14	.35
22	40	45	e37	36	37	33	.57	.32	.24	.20	.11	.22
23	38	44	e37	36	38	33	.68	.43	.23	.17	.12	.21
24	37	40	e38	34	e38	35	.69	.36	.22	.22	.11	.16
25	36	35	e38	34	e38	35	.83	.34	.19	.22	.14	.17
26	34	36	40	34	39	33	1.7	.33	.18	.16	.19	.13
27	34	38	39	34	39	31	2.9	.70	.19	.17	.19	.12
28	34	41	41	35	39	31	2.8	.54	.19	.16	.22	.12
29	33	45	38	35	---	31	1.1	.41	.19	.14	.21	.20
30	32	44	e38	34	---	33	1.0	.32	.18	.19	.20	.56
31	33	---	e37	e34	---	35	---	.49	---	.23	.22	---
TOTAL	600.01	1250	1224	1167	1036	1116	235.38	57.73	7.35	5.19	7.47	10.99
MEAN	19.4	41.7	39.5	37.6	37.0	36.0	7.85	1.86	.24	.17	.24	.37
MAX	42	52	43	43	46	40	24	12	.68	.23	.66	.63
MIN	.40	35	36	34	33	31	.44	.31	.14	.11	.11	.12
AC-FT	1190	2480	2430	2310	2050	2210	467	115	15	10	15	22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-36, 1938-94, BY WATER YEAR (WY)

MEAN	19.2	41.3	41.6	39.1	43.3	43.4	31.6	75.5	77.3	14.7	15.4	11.0
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
MIN	.000	18.0	18.9	19.1	21.5	22.3	1.93	.32	.000	.000	.000	.000
(WY)	1932	1991	1991	1973	1935	1935	1935	1934	1934	1934	1931	1924

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1915-36, 1938-94	
ANNUAL TOTAL	17363.43		6717.12			
ANNUAL MEAN	47.6		18.4		37.7	
HIGHEST ANNUAL MEAN					180	1983
LOWEST ANNUAL MEAN					9.83	1977
HIGHEST DAILY MEAN	437	May 21	52	Nov 12	1700	Jun 19 1983
LOWEST DAILY MEAN	.32	Aug 28	.11	Jul 14	.00	May 7 1924
ANNUAL SEVEN-DAY MINIMUM	.39	Sep 9	.13	Jul 10	.00	Aug 7 1924
ANNUAL RUNOFF (AC-FT)	34440		13320		27320	
10 PERCENT EXCEEDS	85		40		59	
50 PERCENT EXCEEDS	37		9.9		30	
90 PERCENT EXCEEDS	.44		.18		.70	

e Estimated

10238500 MINERSVILLE RESERVOIR NEAR MINERSVILLE, UT

LOCATION.--Lat 38°13'03", long 112°50'05", in SE¼NE¼NW¼ sec. 11, T. 30 S., R. 9 W., Beaver County, Hydrologic Unit 16030007, at right end of Rocky Ford Dam on Beaver River, 5.0 mi east of Minersville.

DRAINAGE AREA.--534 mi².

PERIOD OF RECORD.--April to August 1915, November 1915 to September 1917, December 1917 to March 1921, June to September 1922, October 1937 to current year. Month-end contents only for some periods, published in WSP 1314. Published as Rockyford Reservoir near Minersville prior to October 1967.

REVISED RECORDS.--WDR UT-75-1: Drainage area.

GAGE.--Staff gage. Datum of gage is at 5,452.0 ft above sea level (levels by Utah Dept. of Natural Resources).

REMARKS.--Reservoir is formed by earthfill dam completed in 1914. Spillway rebuilt 1977. Capacity, 24,510 acre-ft between elevation 5,461.3 ft and elevation 5,504.6 ft (spillway crest), rating table in use since 1977. Capacity fall 1937 to fall 1977, 23,260 acre-ft at elevation 5,502.0 ft (spillway crest). Prior to fall of 1937, the spillway crest was at elevation 5,503.5 ft; capacity, 24,910 acre-ft. Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation in vicinity of Minersville, and Milford.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 26,330 acre-ft, June 24-29, 1969, elevation, 5,504.8 ft (revised); No contents at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 17,250 acre-ft, Mar. 30, elevation, 5,497.5 ft; minimum contents observed 2,400 acre-ft, Sept. 28.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	--	*7,270	--
Oct. 31	--	*8,700	+1,430
Nov. 30	--	*10,840	+2,140
Dec. 31	--	*12,760	+1,920
CAL YR 1993	--	--	+6,700
Jan. 31	--	*14,450	+1,690
Feb. 28	5,496.1	15,930	+1,480
Mar. 31	--	*17,230	+1,300
Apr. 30	--	*16,370	-860
May 31	--	*13,300	-3,070
June 30	--	*9,045	-4,255
July 31	--	*5,280	-3,765
Aug. 31	--	*2,750	-2,530
Sept. 30	--	*2,430	-320
WTR YR 1994	--	--	-4,840

(*) No end-of-month gage height reading, contents interpolated.

10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT

LOCATION.--Lat 38°13'03", long 112°50'22", in $SE^1/_4NW^1/_4NW^1/_4$ sec. 11, T. 30 S., R. 9 W., Beaver County, Hydrologic Unit 16030007, on right bank and 0.5 mi downstream from Rocky Ford Dam and 4.8 mi east of Minersville.

DRAINAGE AREA.--535 mi^2.

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 Nov. 12, 1916. Elevation of gage is 5,400 ft above sea level, from topographic map. Prior to June 1, 1916, at site 1,500 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. One small diversion between dam and station. Flow regulated by Minersville Reservoir (formerly published as Rockyford Reservoir). Numerous diversions for irrigation and municipal use above reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft^3/s, June 12, 1983, gage height, 4.74 ft, from rating curve extended above 500 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 0.4 ft^3/s, Mar. 20, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 110 ft^3/s June 24, gage height, 1.65 ft; maximum gage height, 1.66 ft (backwater from vegetation), June 30; minimum daily discharge, 4.3 ft^3/s, Sept. 22, 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	5.7	6.5	6.1	7.1	9.1	10	32	53	92	68	26
2	7.3	6.0	6.0	6.1	7.1	9.4	10	32	46	92	68	24
3	7.3	6.4	5.9	6.3	7.1	9.3	10	32	46	91	68	27
4	7.1	5.9	5.9	6.5	7.1	9.0	10	37	46	87	71	24
5	6.8	6.0	5.9	6.5	7.2	9.0	10	44	46	57	75	21
6	6.5	6.5	5.9	6.2	7.3	9.0	10	50	48	87	74	21
7	6.5	6.5	6.0	6.2	7.6	9.0	10	52	49	97	77	17
8	6.9	6.4	6.3	6.3	7.7	9.0	10	57	47	86	77	12
9	7.7	6.4	6.2	6.3	7.6	9.2	11	69	47	76	77	7.6
10	7.4	6.2	6.4	6.0	8.3	9.5	10	73	53	72	76	6.5
11	7.1	6.5	6.5	6.0	8.3	9.8	10	79	59	73	64	6.5
12	6.8	6.5	6.3	5.9	8.3	9.7	10	88	74	72	60	6.5
13	6.9	6.4	6.2	5.9	8.2	9.7	10	92	78	72	59	6.7
14	7.0	6.1	6.5	5.9	8.3	9.7	10	92	76	73	58	6.6
15	7.1	5.9	6.5	5.9	8.3	9.7	10	91	76	73	57	6.3
16	6.9	5.9	6.5	6.5	8.3	9.7	10	89	75	72	56	6.3
17	6.8	6.2	6.5	6.5	8.6	9.7	10	81	79	65	55	6.2
18	6.9	6.5	6.5	6.5	9.0	9.7	10	82	81	65	55	5.9
19	6.5	6.5	6.5	6.5	9.0	9.9	22	82	81	64	54	4.9
20	6.5	6.2	6.5	6.5	9.0	10	33	82	80	64	45	4.8
21	6.9	6.0	6.5	6.5	9.0	9.8	36	77	80	64	40	4.7
22	6.4	6.3	6.5	6.8	9.0	9.7	44	72	79	64	39	4.3
23	5.9	6.2	6.5	7.1	9.0	9.7	51	71	88	65	33	4.3
24	5.9	6.3	6.5	7.1	9.0	9.7	56	62	102	62	32	4.8
25	6.4	6.2	6.5	7.1	9.0	9.7	59	62	107	57	36	5.3
26	6.4	6.4	6.5	7.1	9.0	10	47	62	108	48	40	4.9
27	6.3	6.4	6.5	7.1	9.2	10	41	60	106	54	39	4.8
28	6.5	6.5	6.5	7.1	9.2	10	36	52	106	72	39	4.9
29	6.5	6.5	6.1	7.1	---	10	34	52	105	72	40	5.1
30	6.5	6.5	6.0	7.1	---	10	33	57	103	71	39	4.9
31	6.2	---	5.9	7.1	---	10	---	63	---	69	33	---
TOTAL	209.2	188.0	195.5	201.8	231.8	297.7	673	2026	2224	2228	1704	294.8
MEAN	6.75	6.27	6.31	6.51	8.28	9.60	22.4	65.4	74.1	71.9	55.0	9.83
MAX	7.7	6.5	6.5	7.1	9.2	10	59	92	108	97	77	27
MIN	5.9	5.7	5.9	5.9	7.1	9.0	10	32	46	48	32	4.3
AC-FT	415	373	388	400	460	590	1330	4020	4410	4420	3380	585

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-36, 1938-94, BY WATER YEAR (WY)

MEAN	12.4	10.4	11.2	11.6	11.4	15.5	29.0	97.6	107	82.4	64.7	33.6
MAX	57.8	51.8	97.8	121	55.8	76.7	196	457	926	215	143	104
(WY)	1938	1984	1942	1984	1985	1983	1984	1984	1983	1983	1986	1983
MIN	2.85	3.19	2.67	2.95	3.54	4.69	6.05	27.8	21.0	7.84	7.61	4.59
(WY)	1977	1978	1978	1978	1978	1978	1991	1977	1919	1919	1919	1956

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1915-36, 1938-94	
ANNUAL TOTAL	13779.2		10473.8			
ANNUAL MEAN	37.8		28.7		40.4	
HIGHEST ANNUAL MEAN					163	1983
LOWEST ANNUAL MEAN					12.6	1960
HIGHEST DAILY MEAN	152	Jul 7	108	Jun 26	1210	Jun 20 1983
LOWEST DAILY MEAN	3.8	Jan 5	4.3	Sep 22	1.3	Oct 24 1914
ANNUAL SEVEN-DAY MINIMUM	3.8	Jan 4	4.7	Sep 19	1.5	Oct 24 1914
ANNUAL RUNOFF (AC-FT)	27330		20770		29240	
10 PERCENT EXCEEDS	111		76		102	
50 PERCENT EXCEEDS	8.3		9.5		14	
90 PERCENT EXCEEDS	5.0		6.1		4.6	

10242000 COAL CREEK NEAR CEDAR CITY, UT

LOCATION.--Lat 37°40'20", long 113°02'02", in $SE^1/_4SE^1/_4NE^1/_4$ 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 mi^2.

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 Aug. 1, 1989. Concrete control since July 1972, rebuilt July 29, 1988. Elevation of gage is 6,000 ft above sea level, from topographic map. Prior to Mar. 30, 1939, nonrecording gages and Mar. 30, 1939 to May 14, 1945, water-stage recorder at several sites about 0.5 mi upstream at various datums. May 15, 1945 to Oct. 10, 1951, May 4 to July 2, 1952, water-stage recorder at site 2 mi upstream at different datum. July 3, 1952 to Nov. 17, 1967, water-stage recorder at site 600 ft upstream at different datum.

REMARKS.--Records fair except those for Nov. 10 to Feb. 28 and estimated daily discharges, which are poor. No diversion above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft^3/s, July 23, 1969, gage height, 11.67 ft from flood-mark, based on slope-area measurement of July 16, 1967 and applied to site and datum now in use; minimum daily discharge, 2.1 ft^3/s, Nov. 3, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug. 13	0110	668	6.84	Aug. 17	1730	*1,110	*7.85

Minimum daily discharge, 4.9 ft^3/s Nov. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	13	10	10	10	12	23	35	57	14	11	9.5
2	12	11	10	10	11	17	22	38	49	14	9.1	9.3
3	12	12	10	10	11	25	24	47	45	12	8.4	9.4
4	12	12	11	11	10	30	23	96	40	12	8.2	8.8
5	13	11	10	12	10	28	19	165	37	12	8.0	8.5
6	37	9.7	11	10	10	22	19	198	35	12	8.1	10
7	49	11	11	10	10	19	18	125	33	11	8.1	9.6
8	20	11	11	12	10	18	18	71	32	11	8.1	8.3
9	16	11	10	11	9.8	20	19	64	30	11	10	8.3
10	15	12	10	11	10	20	18	76	28	10	9.3	e8.2
11	18	13	10	10	9.0	19	17	91	27	10	8.7	e8.0
12	26	13	11	10	11	16	17	138	26	10	11	e8.0
13	17	13	10	10	12	20	27	242	25	9.8	114	e8.0
14	16	13	12	10	11	30	31	194	24	9.6	14	e7.8
15	15	11	11	10	11	30	32	199	23	9.3	12	7.8
16	16	11	11	10	11	27	36	134	22	9.4	11	7.7
17	18	13	10	10	14	26	44	81	21	9.3	e86	7.5
18	19	13	11	10	12	26	47	65	20	9.5	e20	7.3
19	18	9.9	11	11	10	23	54	60	20	9.7	15	7.7
20	16	10	8.1	11	10	21	71	56	20	10	15	16
21	15	12	9.8	11	10	22	120	55	21	9.4	13	8.5
22	15	14	10	11	9.2	23	189	58	19	9.3	11	7.7
23	14	13	9.2	11	9.7	17	131	65	18	9.1	10	7.4
24	14	8.7	12	10	12	16	62	67	17	10	9.8	7.1
25	14	5.5	11	10	13	15	40	65	16	9.6	9.3	6.9
26	13	4.9	12	11	15	15	36	66	15	9.4	8.6	6.7
27	13	7.1	12	10	14	14	33	89	15	9.3	8.2	6.4
28	13	10	11	10	12	14	32	79	15	8.6	13	6.4
29	13	12	9.9	9.5	---	19	31	69	14	11	12	16
30	12	11	11	8.4	---	21	32	60	14	11	10	34
31	12	---	10	8.8	---	23	---	68	---	17	9.5	---
TOTAL	525	331.8	327.0	319.7	307.7	648	1285	2916	778	329.3	509.4	282.8
MEAN	16.9	11.1	10.5	10.3	11.0	20.9	42.8	94.1	25.9	10.6	16.4	9.43
MAX	49	14	12	12	15	30	189	242	57	17	114	34
MIN	12	4.9	8.1	8.4	9.0	12	17	35	14	8.6	8.0	6.4
AC-FT	1040	658	649	634	610	1290	2550	5780	1540	653	1010	561

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1994, BY WATER YEAR (WY)

MEAN	12.4	11.3	10.2	9.86	11.7	17.5	56.4	146	67.8	21.7	17.4	13.4
MAX	38.4	24.1	21.3	17.7	18.6	36.0	140	489	428	69.9	59.7	37.1
(WY)	1973	1988	1984	1984	1947	1986	1985	1973	1983	1983	1968	1967
MIN	6.17	5.95	5.78	6.41	7.40	9.10	17.1	19.0	11.6	7.61	5.94	6.33
(WY)	1991	1978	1991	1951	1960	1951	1975	1977	1989	1959	1960	1956

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1939 - 1994	
ANNUAL TOTAL	25148.5		8559.7			
ANNUAL MEAN	68.9		23.5		33.1	
HIGHEST ANNUAL MEAN					86.0	1983
LOWEST ANNUAL MEAN					11.4	1977
HIGHEST DAILY MEAN	602	May 21	242	May 13	1080	May 31 1983
LOWEST DAILY MEAN	4.9	Nov 26	4.9	Nov 26	2.1	Nov 3 1990
ANNUAL SEVEN-DAY MINIMUM	8.5	Nov 24	6.9	Sep 22	2.5	Oct 28 1990
ANNUAL RUNOFF (AC-FT)	49880		16980		23960	
10 PERCENT EXCEEDS	205		54		75	
50 PERCENT EXCEEDS	16		12		13	
90 PERCENT EXCEEDS	10		8.7		7.6	

e Estimated

GREAT SALT LAKE BASIN

Compilation of data through the 300 ft breach opening

Lat 41°13'20", long 112°50'30"
1.2 mi east of Lakeside and 1500 ft
east of west shore

Date of measurement		Discharge (ft^3/s)	Specific gravity	Temperature (°C)
Oct. 28, 1993	(a)	23	1.110	10.0
	(b)	0	--	--
June 16, 1994	(a)	14	1.101	21.0
	(b)	0	--	--

(a) indicates flow from south to north
(b) indicates flow from north to south

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		WEBER RIVER BASIN				
10132500 Lost Creek	Weber River	Lat 41°10'35" long 111°24'20" Morgan County, 9.5 mi northeast of Croydon.	133	1922* 1942-67* 1988-89	10-12-93	20

* Operated as a continuous gaging station.

STATION NUMBER	STATION NAME	DATE	TIME	TEMPERATURE WATER (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)
09291000	LAKE FORK RIVER BELOW MOON LAKE NEAR MOUNTAIN HOME, UTAH	11-10-93	1010	4.0	571	9.9
		05-18-94	1600	4.5	567	9.6
		06-21-94	1625	9.0	572	8.7
		07-26-94	1840	14.5	574	8.0
		08-19-94	0915	14.0	574	8.0
09292500	YELLOWSTONE RIVER NEAR ALTONAH, UTAH	11-10-93	1400	3.5	581	10.1
		03-15-94	1130	5.0	578	9.4
		05-18-94	1300	8.0	578	9.1
		06-21-94	1340	13.0	582	8.0
		07-26-94	1515	16.5	584	7.7
		08-18-94	1415	15.0	579	7.6
		09-20-94	1115	10.0	579	8.5
09293700	PIGEON WATER CREEK NEAR ALTAMONT, UTAH	06-21-94	1120	20.0	612	10.0
		07-26-94	1205	22.5	620	7.9
		08-18-94	1000	19.5	614	5.9
		09-20-94	1500	14.0	620	9.3
09294500	LAKE FORK RIVER NEAR MYTON, UTAH	11-12-93	1120	4.5	623	10.6
		03-16-94	1650	12.0	628	9.2
		05-16-94	1300	18.0	624	8.6
		06-20-94	1300	24.0	634	7.5
		07-25-94	1600	26.0	633	8.1
		08-23-94	1445	22.0	633	7.6
		09-19-94	1445	17.0	635	7.6
09295000	DUCHESNE RIVER AT MYTON, UTAH	03-16-94	1240	10.5	632	9.8
		05-16-94	1110	17.0	627	9.9
		06-20-94	1115	21.0	636	8.1
		07-25-94	1350	25.0	636	10.2
		08-23-94	1300	21.0	636	9.2
		09-19-94	1300	17.0	637	9.5
09296800	UINTA RIVER BELOW POWERPLANT DIVERSION, NEAR NEOLA, UTAH	11-11-93	0950	1.0	577	10.7
		03-15-94	1545	4.0	583	10.3
		05-18-94	0845	4.0	581	10.0
		06-21-94	0820	10.0	585	8.5
		07-26-94	0845	11.5	588	8.4
09299500	WHITEROCKS RIVER NEAR WHITEROCKS, UTAH	11-11-93	1256	2.0	578	10.4
		03-16-94	0930	1.0	585	10.9
		05-17-94	1645	5.0	656	10.8
		06-22-94	1200	15.5	587	7.4
		07-27-94	1530	15.5	589	7.5
		08-24-94	0930	10.0	590	8.8
		09-21-94	1525	12.5	587	8.3
09301500	UINTAH RIVER AT RANDLETT, UTAH	03-14-94	1645	11.0	641	13.3
		05-17-94	1130	15.0	636	8.0
		06-20-94	1730	26.0	640	8.7
		07-27-94	1145	26.0	643	6.9
09302000	DUCHESNE RIVER NEAR RANDLETT, UTAH	03-14-94	1400	11.0	643	11.1
		05-17-94	0915	15.0	635	7.5
		06-22-94	1145	25.0	641	8.2
		07-27-94	0920	24.0	643	7.0
10146000	SALT CREEK AT NEPHI, UTAH	11-17-93	1530	6.0	628	10.4
		03-07-94	1420	11.0	628	9.1
		05-26-94	0800	11.0	624	9.8
		06-16-94	0845	12.0	625	8.7
		07-20-94	1615	21.0	629	8.0
		08-16-94	1700	20.0	627	8.0
		09-15-94	0930	10.0	632	9.0
10146400	CURRANT CREEK NEAR MONA, UTAH	11-17-93	1330	7.0	640	10.5
		03-08-94	1130	8.0	638	10.0
		05-26-94	0945	17.5	634	7.8
		06-15-94	1700	22.0	630	8.0
		07-19-94	1330	24.0	637	8.0
		08-16-94	1400	23.0	636	7.8
		09-14-94	1440	18.0	639	10.4
10148510	SPANISH FORK BELOW HALLS FALLS NEAR SPANISH FORK, UTAH	11-16-93	1430	6.0	639	10.5
		03-09-94	1300	8.0	639	10.0
		05-26-94	1230	17.0	631	8.6
		06-16-94	1145	17.0	633	9.0
		07-22-94	1115	21.0	638	7.4
		08-17-94	1245	22.0	638	8.2
		09-12-94	1100	17.5	632	9.0
10219200	CHICKEN CREEK NEAR LEVAN, UTAH	11-17-93	1045	3.0	625	11.2
		03-07-94	1215	9.0	623	9.8
392914111581100	CHICKEN CREEK RESERVOIR OUTFLOW NEAR LEVAN, UTAH	11-17-93	0900	2.0	636	11.4
394453111531200	WEST CREEK NEAR NEPHI, UTAH	09-14-94	1620	14.0	638	13.8
395521111451000	SUMMIT CREEK NEAR SANTAQUIN, UTAH	11-18-93	0940	4.0	615	10.7
		05-25-94	1515	10.0	609	9.2
		06-15-94	1445	10.0	605	9.0
		07-21-94	0900	9.5	616	9.3
		08-17-94	0955	10.5	616	9.0
		09-15-94	1135	9.5	620	9.3

DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	HARD-NESS TOTAL (MG/L AS CACO3)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS HYDRO. + ORTHO TOTAL (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)
132	24	7.2	--	10	18	0.010	<0.010	0.067	<0.010	0.01	<1
287	23	7.4	10	8	16	0.030	<0.010	<0.050	<0.010	<0.01	1
403	20	7.4	37	3	6	0.020	<0.010	<0.050	<0.010	<0.01	<1
244	24	7.0	11	11	12	0.020	<0.010	<0.050	<0.010	0.02	<1
13	43	7.6	80	198	24	0.110	<0.010	0.150	<0.010	0.02	4
126	95	8.3	--	20	50	<0.010	<0.010	0.220	<0.010	<0.01	<1
21	167	8.4	89	<1	98	0.010	0.020	0.220	<0.010	<0.01	<1
179	44	8.0	18	5	28	0.040	0.010	0.064	<0.010	<0.01	<1
96	54	7.7	46	1	28	0.010	<0.010	<0.050	<0.010	<0.01	<1
85	73	7.5	100	<1	38	0.020	<0.010	0.097	<0.010	0.03	<1
31	105	7.6	45	<1	70	0.010	<0.010	0.120	<0.010	<0.01	1
33	90	7.5	80	2	56	<0.010	<0.010	0.120	<0.010	<0.01	<1
0.74	1190	8.5	570	4	754	0.020	<0.010	<0.050	<0.010	0.01	4
0.34	1170	8.4	590	68	946	0.020	<0.010	<0.050	<0.010	0.05	5
0.29	1210	8.4	690	6	358	0.030	<0.010	<0.050	<0.010	0.03	4
0.51	1210	8.4	630	3	714	0.020	<0.010	<0.050	<0.010	0.02	2
24	1490	8.3	--	10	1030	0.020	<0.010	<0.050	<0.010	0.02	2
5.9	2320	8.4	610	44	1700	0.040	<0.010	<0.050	<0.010	0.04	2
13	2160	8.1	550	108	1560	0.140	0.020	0.110	0.100	0.13	4
33	1260	8.2	370	202	842	0.030	<0.010	0.054	0.060	0.07	5
19	1380	8.4	400	172	954	0.030	<0.010	<0.050	0.050	0.10	5
26	1560	8.3	530	223	1130	0.020	<0.010	<0.050	0.010	0.06	3
26	1310	8.3	410	129	894	0.020	<0.010	<0.050	0.090	0.10	5
112	815	8.4	300	24	532	0.040	<0.010	<0.050	<0.010	0.03	1
33	1640	8.3	500	49	1120	0.020	0.010	<0.050	0.030	0.05	4
99	1220	8.2	430	117	804	0.020	<0.010	<0.050	0.050	0.06	4
30	1360	8.4	390	15	746	0.020	<0.010	<0.050	0.020	0.05	4
38	1370	8.4	530	88	944	0.020	<0.010	<0.050	0.030	0.06	4
33	1460	8.4	520	77	1020	0.010	<0.010	<0.050	0.020	0.04	4
21	34	7.4	--	11	20	<0.010	<0.010	0.240	0.030	<0.01	<1
34	45	S7.9	34	2	18	0.010	0.020	0.260	<0.010	<0.01	<1
248	28	7.4	41	2	22	0.020	<0.010	0.079	<0.010	0.02	<1
216	23	7.5	23	2	16	0.010	<0.010	0.099	<0.010	<0.01	<1
81	27	6.9	9	<1	14	0.020	<0.010	0.110	<0.010	0.02	<1
39	42	7.5	--	11	30	<0.010	<0.010	0.190	<0.010	<0.01	<1
29	57	7.5	77	2	42	0.030	<0.010	0.200	<0.010	<0.01	<1
272	25	7.8	41	6	28	0.010	<0.010	<0.050	<0.010	<0.01	<1
150	41	6.5	--	2	24	0.020	<0.010	<0.050	<0.010	<0.01	<1
109	31	7.2	24	<1	22	0.030	<0.010	<0.050	<0.010	0.02	<1
75	33	7.3	80	6	26	0.010	<0.010	0.056	<0.010	<0.01	<1
63	35	7.2	98	3	34	<0.010	<0.010	0.069	<0.010	<0.01	<1
34	1900	8.6	600	40	1370	0.030	0.020	0.230	<0.010	--	1
32	2130	8.3	800	174	1520	0.140	0.030	0.430	0.030	0.17	4
18	2300	8.4	600	84	1610	0.030	<0.010	0.056	<0.010	0.06	4
11	2330	8.4	630	73	1640	0.030	<0.010	<0.050	<0.010	0.07	5
154	1260	8.5	410	40	880	0.030	0.010	0.068	<0.010	0.04	1
43	2090	8.4	630	148	1530	0.120	0.030	0.330	0.030	0.12	4
58	1960	8.4	580	76	1400	0.020	<0.010	<0.050	<0.010	0.05	4
13	2290	8.5	820	57	1680	0.030	<0.010	<0.050	<0.010	0.05	5
5.8	1320	8.3	--	11	5470	<0.010	0.030	0.100	<0.010	<0.01	2
5.9	1470	8.4	240	23	814	0.030	<0.010	<0.050	<0.010	<0.01	<1
22	850	8.4	270	27	464	0.040	0.020	<0.050	0.010	<0.01	<1
6.8	1250	8.3	290	10	690	0.020	<0.010	<0.050	<0.010	<0.01	<1
6.8	1270	8.2	280	<1	686	0.010	<0.010	<0.050	<0.010	<0.01	<1
9.8	1160	8.2	190	205	584	0.020	<0.010	<0.050	0.010	0.03	1
7.3	1200	8.4	290	7	632	0.010	<0.010	<0.050	<0.010	<0.01	<1
7.6	1050	8.2	--	9	604	0.090	0.040	2.00	<0.010	<0.01	<1
15	2230	8.3	590	9	1340	0.100	0.020	1.20	<0.010	0.01	2
6.1	1050	8.1	350	35	620	0.090	0.040	1.50	<0.010	0.02	<1
4.1	1020	8.3	370	32	598	0.070	0.020	1.50	<0.010	0.04	<1
4.6	965	8.2	360	46	542	0.080	0.020	1.40	<0.010	0.04	1
7.3	975	8.3	270	30	580	0.060	0.020	1.20	0.010	0.03	1
6.9	930	8.3	380	18	522	0.040	0.010	1.40	<0.010	0.02	<1
47	655	8.4	--	1940	376	0.060	0.030	0.110	<0.010	0.18	2
69	745	8.5	290	91	444	0.050	0.010	0.210	0.030	0.04	2
77	575	8.4	340	50	304	0.030	0.020	<0.050	0.030	0.03	1
45	675	8.5	300	36	344	0.010	<0.010	<0.050	<0.010	0.02	2
24	715	8.4	270	39	380	0.030	<0.010	<0.050	0.040	--	2
25	680	8.6	250	39	1260	0.030	<0.010	<0.050	<0.010	<0.01	2
24	670	7.4	240	19	376	0.020	<0.010	<0.050	<0.010	0.01	1
1.4	890	8.4	--	11	496	<0.010	0.030	0.110	<0.010	<0.01	<1
2.0	750	8.5	140	1	430	0.020	<0.010	<0.050	<0.010	<0.01	<1
0.03	7180	8.6	--	16	718	0.020	0.040	0.180	<0.010	0.01	<1
<0.10	4000	8.8	700	16	2340	0.030	<0.010	<0.050	0.010	0.04	6
7.4	385	8.7	--	9	202	0.010	<0.010	0.240	<0.010	<0.01	<1
24	310	8.6	200	4	178	0.040	0.020	0.100	<0.010	<0.01	<1
9.9	355	8.7	240	2	198	0.010	<0.010	0.061	<0.010	0.01	<1
6.5	380	8.6	250	2	208	0.010	<0.010	0.130	<0.010	<0.01	<1
5.9	380	8.5	210	8	186	0.020	<0.010	0.160	<0.010	<0.01	<1
5.7	380	8.6	250	4	192	0.010	<0.010	0.130	<0.010	0.01	<1

STATION NUMBER--Cont.	DATE	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)
09291000	11-10-93	<10	<10	<1	<10	100	<1	--	<0.1	<1
	05-18-94	<10	<10	<1	<10	110	<1	3	<0.1	<1
	06-21-94	<10	<10	<1	<10	83	<1	2	<0.1	<1
	07-26-94	<10	<10	<1	<10	85	<1	12	<0.1	<1
	08-19-94	<10	<10	<1	<10	430	<1	150	<0.1	<1
09292500	11-10-93	<10	<10	<1	<10	80	<1	--	<0.1	<1
	03-15-94	<10	<10	<1	<10	61	<1	12	<0.1	<1
	05-18-94	<10	<10	<1	<10	70	<1	3	<0.1	<1
	06-21-94	<10	<10	<1	<10	38	<1	3	<0.1	<1
	07-26-94	<10	<10	<1	<10	36	<1	3	<0.1	<1
	08-18-94	10	<10	<1	<10	59	<1	6	<0.1	<1
	09-20-94	10	<10	<1	<10	53	<1	7	<0.1	<1
09293700	06-21-94	320	<10	<1	<10	11	<1	54	<0.1	<1
	07-26-94	620	<10	<1	<10	9	<1	22	<0.1	<1
	08-18-94	90	<10	<1	<10	18	<1	100	<0.1	<1
	09-20-94	310	<10	<1	<10	21	<1	21	<0.1	<1
09294500	11-12-93	<10	<10	<1	<10	30	<1	--	0.4	<1
	03-16-94	420	<10	<1	<10	30	<1	230	<0.1	<1
	05-16-94	560	<10	<1	<10	50	<1	210	<0.1	<1
	06-20-94	500	<10	<1	<10	23	<1	65	<0.1	<1
	07-25-94	530	<10	<1	<10	4	<1	66	<0.1	<1
	08-23-94	490	<10	<1	<10	6	<1	48	<0.1	<1
	09-19-94	470	<10	<1	<10	9	<1	56	<0.1	<1
09295000	03-16-94	390	<10	<1	<10	26	<1	36	<0.1	<1
	05-16-94	880	<10	<1	<10	16	<1	61	<0.1	<1
	06-20-94	660	<10	<1	<10	23	<1	37	--	<1
	07-25-94	310	<10	<1	<10	19	<1	140	<0.1	<1
	08-23-94	680	<10	<1	<10	11	<1	27	<0.1	<1
	09-19-94	670	<10	<1	<10	5	<1	21	<0.1	<1
09296800	11-11-93	<10	<10	<1	<10	40	<1	--	<0.1	<1
	03-15-94	10	<10	<1	<10	63	<1	5	<0.1	<1
	05-18-94	<10	<10	<1	<10	87	<1	2	<0.1	<1
	06-21-94	<10	<10	<1	<10	43	<1	2	<0.1	<1
	07-26-94	<10	<10	<1	<10	62	<1	4	0.2	<1
09299500	11-11-93	<10	<10	<1	<10	30	<1	--	<0.1	<1
	03-16-94	10	<10	<1	<10	34	<1	6	<0.1	<1
	05-17-94	<10	<10	<1	<10	140	<1	3	<0.1	<1
	06-22-94	10	<10	<1	<10	43	<1	1	<0.1	<1
	07-27-94	<10	<10	<1	<10	46	<1	2	<0.1	<1
	08-24-94	10	<10	<1	<10	42	<1	2	<0.1	<1
	09-21-94	<10	<10	<1	<10	47	<1	3	<0.1	<1
09301500	03-14-94	360	<10	<1	<10	14	<1	180	<0.1	<1
	05-17-94	590	<10	<1	<10	20	<1	110	<0.1	<1
	06-20-94	620	<10	<1	<10	20	<1	40	<0.1	<1
	07-27-94	720	<10	<1	<10	<10	<1	50	<0.1	1
09302000	03-14-94	530	<10	<1	<10	16	<1	71	<0.1	<1
	05-17-94	780	<10	<1	<10	20	<1	100	<0.1	<1
	06-22-94	820	<10	<1	<10	24	<1	31	<0.1	<1
	07-27-94	1200	<10	<1	<10	10	<1	40	<0.1	<1
10146000	11-17-93	460	<10	<1	20	50	<1	--	<0.1	2
	03-07-94	50	<10	<1	<10	4	<1	3	<0.1	1
	05-26-94	20	<10	<1	<10	5	<1	4	<0.1	<1
	06-16-94	40	<10	<1	<10	11	<1	3	<0.1	<1
	07-20-94	40	<10	<1	<10	6	<1	3	<0.1	<1
	08-16-94	40	<10	<1	<10	5	<1	3	<0.1	<1
	09-15-94	40	<10	<1	<10	8	<1	3	<0.1	<1
10146400	11-17-93	40	<10	<1	<10	<10	<1	--	<0.1	3
	03-08-94	80	<10	<1	<10	20	<1	40	<0.1	3
	05-26-94	50	<10	<1	<10	5	<1	18	<0.1	3
	06-15-94	40	<10	<1	<10	5	<1	14	<0.1	4
	07-19-94	50	<10	<1	<10	7	<1	13	<0.1	4
	08-16-94	50	<10	<1	<10	4	<1	7	<0.1	4
	09-14-94	30	<10	<1	<10	9	<1	7	<0.1	4
10148510	11-16-93	60	<10	<1	<10	<10	<1	--	<0.1	<1
	03-09-94	90	<10	<1	<10	11	<1	54	<0.1	<1
	05-26-94	60	<10	<1	<10	370	<1	39	<0.1	<1
	06-16-94	80	<10	<1	<10	19	<1	13	<0.1	<1
	07-22-94	90	<10	<1	<10	16	<1	15	<0.1	<1
	08-17-94	510	<10	<1	<10	10	<1	11	<0.1	<1
	09-12-94	70	<10	<1	<10	25	<1	13	<0.1	<1
10219200	11-17-93	40	<10	<1	<10	<10	<1	--	<0.1	<1
	03-07-94	40	<10	<1	<10	3	<1	<1	<0.1	<1
392914111581100	11-17-93	30	<10	<1	<10	20	<1	--	<0.1	2
394453111531200	09-14-94	210	<10	<1	<10	<10	<1	20	<0.1	<1
395521111451000	11-18-93	<10	<10	<1	<10	<10	<1	--	<0.1	1
	05-25-94	10	<10	<1	<10	6	<1	<1	<0.1	<1
	06-15-94	<10	<10	<1	<10	<3	<1	<1	<0.1	<1
	07-21-94	20	<10	<1	<10	<3	<1	<1	<0.1	<1
	08-17-94	<10	<10	<1	<10	4	<1	<1	<0.1	1
	09-15-94	10	<10	<1	<10	<3	<1	<1	<0.1	1

SELENIUM, TOTAL (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L)	URANIUM NATURAL DISSOLVED (UG/L AS U)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS SR/Y-90)
<1	<1.0	20	0.7	<0.6	<1.0	<0.6	0.7
<1	<1.0	<3	0.9	<0.6	<1.0	<0.6	0.9
<1	<1.0	<3	<0.6	<0.6	<1.0	0.7	<0.6
<1	<1.0	3	0.7	<0.6	<1.0	0.7	0.7
<1	<1.0	<3	0.7	<0.6	<1.0	<0.6	0.6
<1	<1.0	20	0.7	<0.6	<1.0	<0.6	0.6
<1	<1.0	6	1.2	<0.6	<1.0	0.8	1.0
<1	<1.0	<3	<0.6	0.7	<1.0	1.0	<0.6
<1	<1.0	5	0.7	<0.6	<1.0	<0.6	0.7
<1	<1.0	<3	1.0	<0.6	<1.0	<0.6	1.0
<1	<1.0	<3	1.0	<0.6	<1.0	<0.6	0.9
<1	<1.0	<3	0.9	<0.6	<1.0	0.6	0.8
<1	<1.0	<3	7.1	4.2	5.5	5.6	5.3
<1	<1.0	3	6.6	2.5	5.2	3.9	5.0
<1	<1.0	<3	8.9	3.0	4.3	3.9	6.6
<1	<1.0	3	8.9	3.2	6.1	4.6	6.7
<1	<1.0	<10	8.0	4.0	8.5	6.2	5.9
<1	<1.0	<10	8.2	16	16	22	6.2
<1	<1.0	10	14	8.1	14	11	10
<1	<1.0	<3	8.6	4.2	5.8	5.9	6.4
<1	<1.0	<3	7.7	3.5	7.6	4.8	5.7
<1	<1.0	<3	6.7	3.3	6.5	4.7	5.0
<1	<1.0	<3	5.8	6.2	6.0	8.8	4.3
<1	<1.0	<3	3.2	4.6	4.7	6.6	2.4
<1	<1.0	8	9.5	8.2	8.9	11	7.1
<1	<1.0	<3	8.1	6.7	5.8	9.5	6.1
<1	<1.0	6	--	--	--	--	--
<1	<1.0	<3	6.1	2.7	6.7	4.2	4.5
<1	<1.0	<3	7.0	5.7	6.2	7.9	5.2
<1	<1.0	<10	0.6	<0.6	<1.0	<0.6	0.6
<1	<1.0	7	0.9	<0.6	<1.0	<0.6	0.9
<1	<1.0	<3	0.9	<0.6	<1.0	<0.6	0.9
<1	<1.0	3	0.6	<0.6	<1.0	<0.6	<0.6
<1	<1.0	<3	0.7	<0.6	<1.0	<0.6	0.7
<1	<1.0	10	0.8	<0.6	<1.0	<0.6	0.7
<1	<1.0	4	1.1	<0.6	<1.0	<0.6	1.0
<1	<1.0	<3	0.8	0.6	<1.0	1.1	0.8
<1	<1.0	10	<0.6	<0.6	<1.0	<0.6	<0.6
<1	<1.0	<3	0.9	<0.6	<1.0	<0.6	0.9
<1	<1.0	<3	<0.6	<0.6	<1.0	<0.6	<0.6
<1	<1.0	<3	<0.6	<0.6	<1.0	<0.6	<0.6
<1	<1.0	<3	12	23	29	32	9.4
<1	<1.0	<10	13	22	32	31	10
1	<1.0	<10	14	15	29	21	11
1	<1.0	<10	7.6	2.6	4.9	3.4	5.7
<1	<1.0	<3	4.8	10	9.3	16	3.6
<1	<1.0	<10	12	21	24	33	9.2
<1	<1.0	<9	9.4	13	30	19	7.3
--	<1.0	<10	14	12	17	16	10
2	<1.0	20	21	<0.6	4.0	0.7	16
--	<1.0	<3	3.8	3.7	3.4	5.2	2.9
<1	<1.0	<3	2.0	1.0	<1.0	1.5	1.5
<1	<1.0	<3	3.6	1.3	1.7	1.8	2.7
--	<1.0	3	3.4	<0.6	1.6	<0.6	2.5
<1	<1.0	<3	24	2.1	1.4	2.7	18
--	<1.0	<3	3.6	0.9	1.2	1.2	2.7
<1	<1.0	10	3.7	1.3	2.9	1.8	2.8
--	<1.0	<10	4.9	6.3	6.0	9.8	3.7
4	<1.0	<3	2.3	4.4	3.4	6.3	1.7
4	<1.0	<3	3.0	7.2	2.3	10	2.3
--	<1.0	<3	3.2	5.1	2.8	7.2	2.4
4	<1.0	4	3.6	3.8	2.8	5.2	2.7
--	<1.0	7	2.3	3.2	2.6	4.9	1.7
<1	<1.0	<10	4.2	3.2	1.9	4.4	3.1
--	<1.0	<3	5.3	3.1	2.6	4.3	4.1
<1	<1.0	<3	2.9	1.8	1.7	2.6	2.1
<1	<1.0	<3	4.3	3.7	1.8	5.8	3.3
--	<1.0	<3	5.0	2.8	1.7	3.7	3.7
<1	<1.0	<3	4.0	1.9	1.7	2.7	3.0
<1	<1.0	<3	4.4	2.7	2.4	3.8	3.3
<1	<1.0	20	2.6	<0.6	1.5	<0.6	1.9
--	<1.0	<3	2.6	1.8	<1.0	2.6	2.0
2	<1.0	<10	4.3	3.3	2.7	5.1	3.2
--	<1.0	<10	17	5.7	5.3	8.1	13
1	<1.0	<10	1.7	1.2	1.3	1.7	1.2
<1	<1.0	<3	1.7	1.2	<1.0	1.8	1.2
1	<1.0	<3	2.1	1.3	<1.0	1.9	1.6
--	<1.0	10	1.1	1.3	1.3	2.0	0.8
1	<1.0	<3	1.4	1.5	1.1	2.1	1.0
--	<1.0	4	1.1	2.1	1.1	2.8	0.8

STATION NUMBER	STATION NAME	DATE	TIME	TEMPERATURE WATER (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)
395708111555800	CURRANT CREEK BELOW GOSHEN RESERVOIR NEAR GOSHEN, UTAH	11-18-93	1145	4.0	647	11.4
		03-08-94	1320	9.0	646	12.8
		05-25-94	1310	20.0	640	7.6
		06-15-94	1300	19.0	636	6.4
		07-19-94	1030	23.0	645	5.0
		08-15-94	1420	25.0	645	8.4
		09-14-94	1300	15.0	646	9.5
400138111301200	DIAMOND FORK AT MOUTH, NEAR THISTLE, UTAH	11-16-93	1040	3.5	641	12.1
		03-09-94	1505	9.5	639	9.6
		05-26-94	1520	18.0	631	8.1
		06-16-94	1330	17.0	634	7.9
		07-21-94	1210	22.0	637	7.2
		08-17-94	1450	23.0	637	7.3
		09-12-94	1330	18.5	632	8.0
400651111473100	BENJAMIN SLOUGH NEAR BENJAMIN, UTAH	11-18-93	1445	6.0	650	12.9
		03-09-94	1015	5.5	651	10.4
		05-25-94	1030	16.0	641	15.6
		06-15-94	1045	19.5	639	19.0
		08-15-94	1140	24.0	649	10.8
		09-14-94	1040	12.0	648	8.8
401043110095500	LAKE BOREHAM OUTFLOW NEAR MYTON, UTAH	11-12-93	0945	5.0	620	10.6
		03-16-94	1500	8.0	625	10.8
		05-16-94	1440	16.5	621	8.4
		06-20-94	1450	18.0	630	8.4
		07-25-94	1755	18.0	633	9.5
401147109420401	PELICAN LAKE INFLOW FROM THE NORTHWEST	11-11-93	1625	4.5	556	9.4
		03-19-94	1045	5.0	632	10.5
		05-17-94	1330	13.5	634	8.4
		06-22-94	0940	21.0	701	11.4
		07-30-94	0930	20.0	639	10.2
		08-24-94	1740	25.0	639	6.6
		09-21-94	1200	20.0	642	10.5

DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	HARD-NESS TOTAL (MG/L AS CACO3)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS HYDRO. + ORTHO TOTAL (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)
8.7	1240	8.7	--	27	712	0.030	<0.010	0.130	<0.010	0.01	2
0.90	1440	9.0	370	44	830	0.030	<0.010	<0.050	<0.010	0.04	4
15	1640	8.3	430	65	934	0.060	0.020	0.053	<0.010	0.02	2
6.4	1670	8.2	440	188	954	0.070	<0.010	<0.050	<0.010	0.05	2
7.7	1730	8.4	410	85	1040	0.060	<0.010	0.068	<0.010	0.09	5
3.6	1700	8.5	--	99	978	0.020	<0.010	<0.050	0.010	0.06	6
3.1	1510	8.5	400	48	848	0.030	<0.010	0.100	0.010	0.04	4
22	475	8.6	--	14	256	0.010	0.030	<0.050	<0.010	<0.01	<1
35	480	8.6	210	11	262	0.030	<0.010	0.096	<0.010	0.01	<1
343	292	8.5	150	146	158	0.050	0.030	<0.050	<0.010	<0.01	1
484	280	8.4	160	192	158	0.090	<0.010	0.079	<0.010	0.11	1
470	275	8.4	150	137	134	0.020	<0.010	<0.050	<0.010	0.04	1
241	290	8.6	180	84	156	0.030	<0.010	<0.050	<0.010	0.02	1
194	285	8.7	140	23	172	0.020	<0.010	<0.050	<0.010	0.04	1
36	1030	8.5	--	30	612	0.130	0.050	1.70	0.180	0.13	6
37	1220	8.3	410	64	740	0.320	0.060	1.60	0.210	0.27	7
4.1	2250	8.3	660	44	1470	0.040	0.040	0.350	<0.010	0.07	15
3.1	2170	8.4	550	74	1410	0.030	0.020	0.440	<0.010	0.16	14
2.0	1990	8.3	640	149	806	0.190	0.090	0.540	<0.010	0.02	16
1.2	1490	8.4	460	36	948	0.010	<0.010	<0.050	<0.010	0.06	17
5.9	710	8.6	--	2	452	0.020	<0.010	0.056	<0.010	0.01	3
1.2	805	8.7	220	<1	526	0.040	<0.010	<0.050	<0.010	0.01	2
60	980	8.6	280	7	452	0.010	<0.010	<0.050	<0.010	<0.01	3
101	720	8.4	220	6	410	0.010	<0.010	<0.050	<0.010	<0.01	3
71	695	8.5	270	19	422	0.030	<0.010	<0.050	<0.010	0.03	5
45	595	8.6	--	122	374	0.020	<0.010	0.094	0.010	0.03	<1
27	475	8.6	210	72	294	0.030	<0.010	0.170	<0.010	0.06	<1
11	525	8.5	230	86	312	<0.010	<0.010	0.059	<0.010	0.05	<1
0.70	875	8.4	320	8	540	0.110	0.030	0.220	<0.010	0.02	2
0.27	1230	8.4	430	68	790	0.070	0.020	0.140	<0.010	0.08	2
1.2	750	8.7	260	21	446	<0.010	<0.010	<0.050	<0.010	0.01	2
0.25	1200	8.6	400	6	740	0.010	0.020	0.250	<0.010	0.01	1

STATION NUMBER--Cont.	DATE	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)
395708111555800	11-18-93	70	<10	<1	<10	<10	<1	--	<0.1	2
	03-08-94	90	<10	5	<10	5	<1	6	<0.1	3
	05-25-94	90	<10	<1	<10	3	<1	20	<0.1	1
	06-15-94	90	<10	<1	<10	4	<1	13	<0.1	1
	07-19-94	110	<10	<1	<10	<3	<1	8	<0.1	2
	08-15-94	100	<10	<1	<10	4	<1	6	<0.1	3
	09-14-94	90	<10	<1	<10	<3	<1	3	<0.1	3
400138111301200	11-16-93	50	<10	<1	<10	<10	<1	--	<0.1	2
	03-09-94	60	<10	<1	<10	8	<1	12	<0.1	2
	05-26-94	20	<10	<1	<10	19	<1	8	<0.1	<1
	06-16-94	20	<10	<1	<10	10	<1	23	<0.1	<1
	07-21-94	30	<10	<1	<10	10	<1	10	<0.1	<1
	08-17-94	30	<10	<1	<10	6	<1	11	<0.1	<1
	09-12-94	30	<10	<1	<10	7	<1	12	<0.1	<1
400651111473100	11-18-93	150	<10	<1	<10	20	<1	--	<0.1	1
	03-09-94	180	<10	<1	<10	11	<1	22	<0.1	1
	05-25-94	450	<10	<1	<10	20	<1	100	<0.1	2
	06-15-94	500	<10	<1	<10	20	<1	120	<0.1	3
	08-15-94	320	<10	<1	<10	<9	<1	32	<0.1	2
	09-14-94	340	<10	<1	<10	7	<1	7	<0.1	2
401043110095500	11-12-93	<10	<10	<1	<10	<10	<1	--	<0.1	<1
	03-16-94	350	<10	<1	<10	4	<1	2	<0.1	<1
	05-16-94	330	<10	<1	<10	8	<1	4	<0.1	<1
	06-20-94	360	<10	<1	<10	5	<1	2	<0.1	<1
	07-25-94	350	<10	<1	<10	3	<1	10	<0.1	<1
401147109420401	11-11-93	<10	<10	<1	<10	10	<1	--	<0.1	<1
	03-19-94	70	<10	<1	<10	9	<1	2	<0.1	<1
	05-17-94	80	<10	<1	<10	29	<1	4	<0.1	<1
	06-22-94	210	<10	<1	<10	12	<1	5	<0.1	<1
	07-30-94	390	<10	<1	<10	23	<1	12	<0.1	1
	08-24-94	190	<10	<1	<10	8	<1	3	<0.1	1
	09-21-94	370	<10	<1	<10	4	<1	1	<0.1	2

SELE-NIUM, TOTAL (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/Y-90)
2	<1.0	<10	10	6.4	4.1	8.9	7.5
--	<1.0	5	17	4.2	6.0	5.4	12
2	<1.0	5	6.0	3.7	4.5	5.0	4.5
2	<1.0	<3	8.3	9.4	4.0	13	6.3
--	<1.0	4	7.9	2.8	3.7	3.9	6.0
2	<1.0	<3	9.8	5.4	4.7	7.4	7.2
--	<1.0	<3	9.2	4.2	4.7	5.5	6.9
1	<1.0	<10	2.3	1.5	1.7	2.1	1.7
--	<1.0	<3	3.1	2.1	1.9	2.7	2.3
<1	<1.0	5	1.5	0.9	<1.0	1.2	1.2
<1	<1.0	<3	2.1	0.7	<1.0	0.9	1.6
--	<1.0	<3	1.7	<0.6	<1.0	0.6	1.3
<1	<1.0	<3	1.5	<0.6	<1.0	0.6	1.1
<1	<1.0	<3	2.2	0.8	<1.0	1.2	1.6
1	<1.0	<10	13	4.9	4.5	6.9	9.7
--	<1.0	7	15	5.2	5.9	7.0	11
2	<1.0	<10	21	13	10	17	15
3	<1.0	<10	21	8.6	12	12	16
2	<1.0	<9	24	10	9.6	16	18
--	<1.0	<3	20	8.4	7.4	12	15
<1	<1.0	<10	4.2	3.1	4.3	4.3	3.2
<1	<1.0	<3	4.8	7.5	4.5	9.7	3.5
<1	<1.0	4	4.1	3.3	6.0	4.7	3.1
<1	<1.0	<3	2.9	2.4	3.8	3.2	2.1
<1	<1.0	<3	3.7	3.7	3.5	5.9	2.7
<1	<1.0	<10	5.3	4.5	4.2	6.4	4.0
<1	<1.0	14	3.5	4.4	4.7	6.9	2.7
<1	<1.0	4	3.9	4.0	4.5	5.3	3.0
1	<1.0	16	9.7	10	12	14	7.2
2	<1.0	<3	14	24	23	34	10
1	<1.0	<3	6.6	7.7	11	11	4.9
2	<1.0	<3	8.2	21	31	32	6.1

STATION NUMBER	STATION NAME	DATE	TIME	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BARIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS BA)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)
09293700	PIGEON WATER CREEK NEAR ALTAMONT, UTAH	07-19-94	0905	2	90	<1
09294500	LAKE FORK RIVER NEAR MYTON, UTAH	07-16-94	1130	3	110	<1
09295000	DUCHESNE RIVER AT MYTON, UTAH	07-16-94	1500	4	160	<1
09301500	UINTAH RIVER AT RANDLETT, UTAH	07-17-94	1100	2	90	<1
09302000	DUCHESNE RIVER NEAR RANDLETT, UTAH	07-17-94	0830	3	120	<1
10146000	SALT CREEK AT NEPHI, UTAH	07-13-94	0900	2	60	1
10146400	CURRANT CREEK NEAR MONA, UTAH	07-13-94	0900	2	60	1
395708111555800	CURRANT CREEK BELOW GOSHEN RESERVOIR, NEAR GOSHEN, UTAH	07-13-94	1300	6	120	1
400651111473100	BENJAMIN SLOUGH NEAR BENJAMIN, UTAH	07-14-94	0900	7	100	2
401043110095500	LAKE BOREHAM OUTFLOW NEAR MYTON, UTAH	07-16-94	1000	4	220	<1
401147109420401	PELICAN LAKE INFLOW FROM THE NORTHWEST	07-15-94	1800	3	130	<1
		07-15-94	1800	3	130	<1
401647110140400	MYRIN RANCH POND, NEAR UPALCO, UTAH	07-18-94	1000	2	290	2
		07-18-94	1000	2	290	2

	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)
09293700	3	4	<10	10	<1	<0.01
09294500	3	10	10	30	<1	0.01
09295000	6	9	10	20	<1	0.01
09301500	4	5	<10	10	<1	<0.01
09302000	6	9	10	20	<1	0.01
10146000	5	5	20	20	<1	0.01
10146400	5	5	20	20	<1	0.01
395708111555800	6	30	40	40	<1	0.02
400651111473100	9	10	30	70	<1	0.03
401043110095500	6	10	10	30	<1	0.01
401147109420401	5	5	10	20	<1	<0.01
	5	5	10	20	<1	<0.01
401647110140400	2	9	30	<10	<1	<0.01
	2	9	30	<10	<1	<0.01

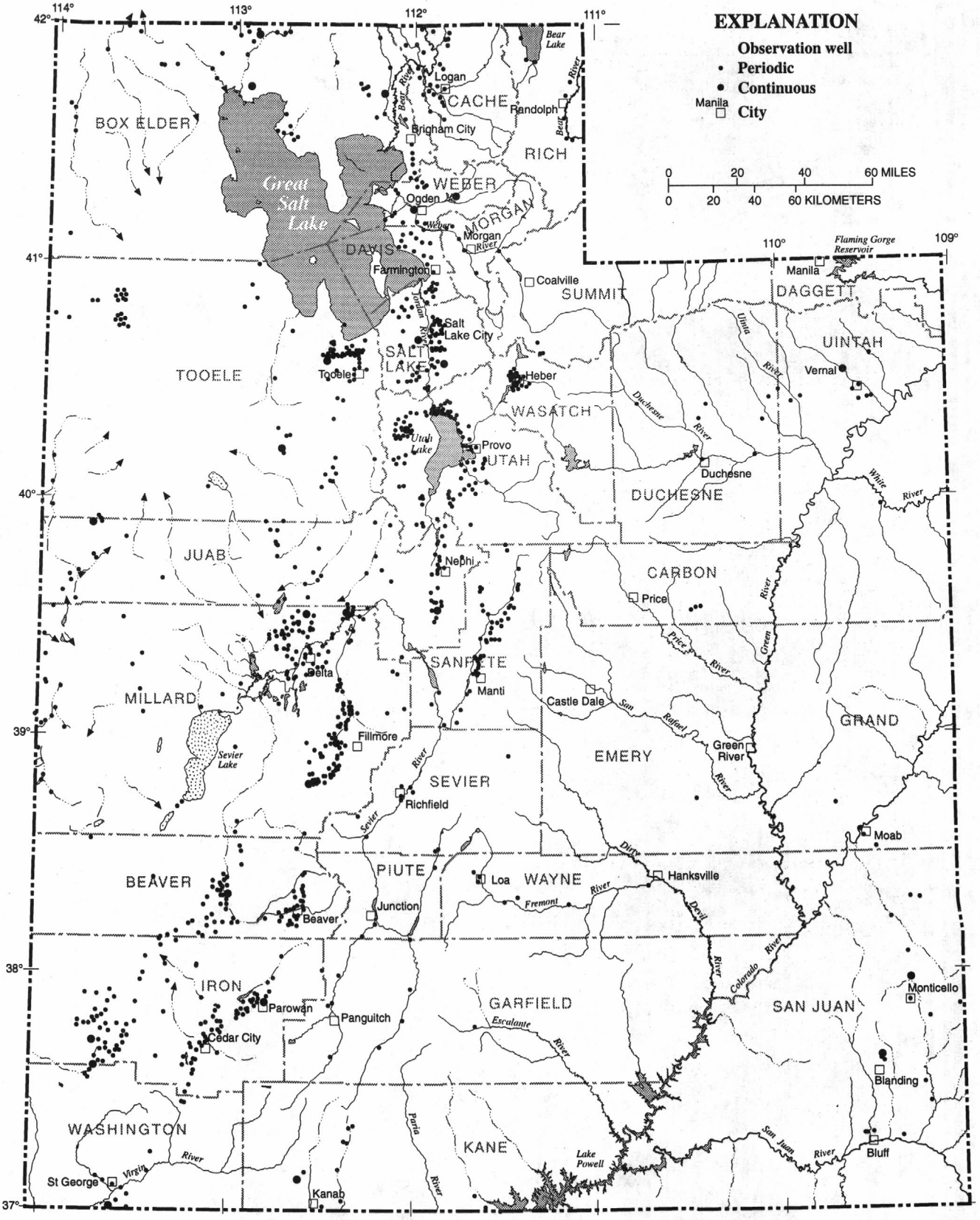

Figure 12. Locations of observation wells in Utah where data were obtained on ground-water levels.

BEAVER COUNTY

382020112585901. LOCAL NUMBER, (C-28-10)28cdd-1.
LOCATION.--Lat 38°20'20", Long 112°58'59", Hydrologic Unit 16030007.
Owner: Wiseman.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16 in., depth 360 ft, cased to 60 ft.
DATUM.--Elevation of land-surface datum is 5,019 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Records fair.
PERIOD OF RECORD.--April 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.99 ft below land-surface datum, Sep. 30, Oct. 1, 1984; lowest, 68.97 ft below land-surface datum, June 2, 1993.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.65	44.48	44.08	43.97	44.05	44.15	44.68	54.35	60.92	62.53	e62.90	e59.30
10	54.33	44.27	44.08	44.01	44.02	44.19	45.08	58.40	56.83	62.10	e62.90	e58.60
15	48.59	44.23	43.97	44.01	44.10	44.22	47.90	61.46	56.03	e62.70	e62.80	e57.20
20	46.17	44.21	44.08	44.04	44.12	44.22	51.17	62.55	59.12	e62.80	e62.70	e56.00
25	45.22	44.16	44.04	43.98	44.13	44.29	52.73	64.43	60.24	e63.00	e62.60	e54.80
EOM	44.66	44.10	44.01	44.08	44.15	44.56	52.22	60.82	61.47	e63.00	e60.70	e53.50

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.--Elevation of land-surface datum is 4,318 ft above sea level. 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, July 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 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.19	24.03	24.21	24.47	24.82	25.08	25.36	25.65	25.55	25.29	25.06	24.76
10	24.12	24.05	24.19	24.51	24.78	25.13	25.35	25.66	25.55	25.30	25.02	24.71
15	24.03	23.96	24.18	24.60	24.93	25.23	25.42	25.64	25.43	25.26	24.99	24.66
20	23.95	24.12	24.31	24.64	24.83	25.18	25.52	25.61	25.44	25.22	24.92	24.68
25	24.02	24.11	24.48	24.63	24.92	25.18	25.48	25.64	25.41	25.19	24.87	24.67
EOM	24.02	24.16	24.50	24.75	24.95	25.35	25.59	25.60	25.39	25.12	24.80	24.60

414411112543701. LOCAL NUMBER, (B-12-9)30cda-1.
LOCATION.--Lat 41°44'11", long 112°54'37", Hydrologic Unit 16020309.
Owners: U.S. Geological Survey.
AQUIFER.--Basalt.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in., depth 162 ft, cased to 131 ft.
DATUM.--Elevation of 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, July 25, 1987; lowest, 25.86 ft below land-surface datum, Nov. 11, 1992.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.79	25.82	e25.70	e25.58	e25.43	e25.30	25.19	25.05	25.03	25.15	25.30	25.47
10	25.82	25.78	e25.68	25.56	e25.40	25.27	25.15	25.05	25.07	25.17	25.35	25.47
15	25.80	25.77	e25.66	25.52	e25.38	25.26	25.15	25.00	25.07	25.19	25.37	25.55
20	25.82	25.77	e25.64	25.51	e25.36	25.25	25.10	25.01	25.08	25.22	25.38	25.55
25	25.82	25.76	e25.62	25.48	e25.34	25.22	25.06	24.98	25.12	25.25	25.41	25.56
EOM	25.81	e25.72	e25.60	e25.46	e25.32	25.20	25.08	25.03	25.13	25.28	25.43	25.58

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.--Elevation of land-surface datum is 4,384 ft above sea level. 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, 181.08 ft below land-surface datum, Sept. 28, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	174.33	170.51	168.50	167.31	166.67	166.10	165.76	166.98	175.85	178.50	179.21	180.95
10	173.63	169.92	168.42	167.41	166.45	166.09	165.60	170.01	176.45	179.05	179.67	180.53
15	172.87	169.77	168.02	167.10	166.57	166.02	165.74	171.67	176.47	179.39	179.85	180.48
20	172.27	169.41	168.10	167.17	166.44	166.01	165.54	173.10	176.91	179.89	179.66	180.52
25	171.59	169.28	167.84	166.80	166.34	165.89	165.33	174.17	177.41	179.98	180.32	180.87
EOM	170.81	168.70	167.60	167.03	166.31	165.84	165.42	174.92	177.89	179.55	180.59	180.34

IRON COUNTY

375241112471001. LOCAL NUMBER, (C-34-8)5bca-1.
LOCATION.--Lat 37°52'41", long 112°47'10", Hydrologic Unit 16030006.
Owner: Paragonah Canal Company.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISITCS.--Drilled unused artesian well, diameter 12 in., depth 420 ft.
DATUM.--Elevation of land-surface datum is 5,802 ft above sea level. 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, June 26, 1949; lowest, 55.27 ft below land-surface datum, Sept. 27, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	50.89	51.52	49.49	50.94	52.13	52.40	52.85	52.92	52.64	53.46	54.22	54.93
10	51.02	51.19	49.93	51.23	50.65	52.47	52.89	52.05	52.61	53.61	54.43	54.93
15	51.02	51.40	50.22	51.24	52.20	52.57	53.02	52.07	52.77	53.74	54.56	55.03
20	51.14	51.60	50.76	51.52	52.30	52.65	53.02	52.22	52.84	54.05	54.59	55.10
25	51.31	51.64	50.74	51.37	52.39	52.74	53.09	52.26	53.00	54.15	54.80	55.15
EOM	51.33	51.65	50.84	51.60	52.50	52.72	53.08	52.41	53.23	54.31	54.92	55.21

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., depth 160 ft.
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 except for estimated days, which are poor. Water level estimated at 119.5 ft below land surface datum Aug. 31, Sept. 5, 1994.
PERIOD OF RECORD.--September 1947 to 1953, 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.06 ft below land-surface datum, Sept. 11, 1947; lowest, e119.50 ft below land-surface datum, Aug. 31, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	115.38	113.82	112.06	110.83	109.99	109.13	108.46	109.72	113.45	115.65	117.89	e119.50
10	115.06	113.31	111.90	110.86	109.68	108.98	108.37	110.37	113.64	116.28	118.37	e119.40
15	114.95	113.21	111.53	110.51	109.72	108.87	108.36	110.86	113.48	116.89	e118.70	e119.20
20	114.79	112.83	111.60	110.52	109.57	108.85	108.25	111.44	113.83	117.24	e119.00	e119.10
25	114.48	112.70	111.22	110.17	109.38	108.70	108.76	111.88	114.18	117.45	e119.40	e118.90
EOM	113.94	112.31	111.05	110.20	109.44	108.51	109.23	112.60	114.83	117.51	e119.50	e118.80

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., depth 380 ft.
DATUM.--Land-surface datum is 5,233.36 ft above sea level. Measuring point: Top of casing, 1.50 ft above land-surface datum.
REMARKS.--There are several nearby pumped wells. Records fair except those for estimated days and those for Aug. 16 to Sept. 30, which are poor.
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, 190.22 ft below land-surface datum, Aug. 16, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	182.22	179.77	177.99	176.35	175.29	174.05	e172.10	177.17	e181.82	e185.50	e189.10	186.12
10	181.60	179.31	177.93	176.38	174.91	173.95	e172.50	e179.00	e181.30	e186.10	189.83	185.15
15	181.03	179.38	177.28	176.01	174.90	173.57	e173.00	e180.50	e181.30	e186.70	189.21	184.91
20	180.95	e178.80	177.47	175.96	174.73	e173.10	e173.50	180.49	182.81	e187.30	187.87	184.56
25	180.47	178.80	177.04	175.46	174.48	e172.80	174.05	e181.37	e184.72	e187.90	187.61	184.14
EOM	179.97	178.19	176.74	175.68	174.44	e171.92	174.48	e181.25	e184.80	e188.50	187.27	183.93

JUAB COUNTY

395259113430401. LOCAL NUMBER, (C-11-17)12cbb-1.
LOCATION.--Lat 39°52'59", long 113°43'04", Hydrologic Unit 16020306.
Owner: Dorcy Sabey.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16 in, depth unknown.
DATUM.--Elevation of land-surface datum is 4,390.00 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--October 1986 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.82 ft below land-surface datum, June 26, 1987; lowest, 55.53 ft below land-surface datum, Sept. 14, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	51.92	51.88	51.90	51.98	52.07	52.08	52.09	52.01	51.53	52.08	52.71	55.14
10	51.91	51.88	51.93	52.04	52.04	52.08	52.09	51.88	51.61	52.01	53.00	55.31
15	51.88	51.90	51.91	52.01	52.08	52.07	52.12	52.07	51.48	52.10	54.02	55.30
20	51.89	51.89	51.98	52.06	52.07	52.10	52.12	51.93	51.61	52.44	54.32	55.30
25	51.87	51.91	51.98	52.02	52.07	52.09	52.22	51.76	51.77	52.69	54.28	55.34
EOM	51.84	51.87	52.00	52.08	52.11	52.08	52.09	51.81	51.94	52.83	54.92	54.43

JUAB COUNTY--Continued

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.--Elevation of 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 good.
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, 71.94 ft below land-surface datum, Sept. 15, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	69.70	69.07	68.65	68.33	68.15	67.93	67.73	67.61	69.21	70.28	71.34	71.84
10	69.59	68.97	68.62	68.34	68.06	67.88	67.68	67.84	69.41	70.41	71.47	71.87
15	69.44	68.92	68.50	68.27	68.08	67.86	67.70	68.04	69.56	70.57	71.55	71.94
20	69.36	68.86	68.54	68.27	68.05	67.81	67.68	68.42	69.68	70.77	71.72	71.92
25	69.24	68.82	68.46	68.17	67.99	67.78	67.63	68.64	69.91	70.96	71.81	71.90
EOM	69.13	68.70	68.40	68.22	67.98	67.75	67.66	68.95	70.13	71.19	71.84	71.74

KANE COUNTY

370523112334702. LOCAL NUMBER, (C-42-6)30dcc-2.
LOCATION.--Lat 37°05'23", long 112°33'47", Hydrologic Unit 15010003.
Owner: Kanab City.
AQUIFER.--Consolidated Navajo Sandstone.
WELL CHARACTERISTICS.--Drilled well, diameter 6 in., depth 230 ft.
DATUM.--Elevation of land-surface datum is 5,280.00 ft above sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.
REMARKS.--Records good.
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, 65.75 ft below land-surface datum, Dec. 13, 1992.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	61.11	60.81	60.48	60.15	59.96	59.70	61.54	62.69	62.64	62.74	62.42	61.69
10	61.07	60.72	60.46	60.19	59.86	60.34	61.84	62.92	62.45	63.08	62.28	61.56
15	60.99	60.72	60.32	60.09	59.88	60.87	61.59	63.10	62.27	62.76	62.13	61.49
20	60.99	60.65	60.36	60.09	59.83	61.25	61.87	63.32	62.14	63.21	62.00	61.41
25	60.90	60.63	60.29	59.98	59.77	61.05	62.17	63.35	61.98	62.95	61.90	61.34
EOM	60.82	60.54	60.24	60.00	59.80	60.89	62.46	62.90	62.33	62.63	61.75	61.26

MILLARD COUNTY

393046112231301. LOCAL NUMBER, (C-15-5)15dad-1.
LOCATION.--Lat 39°30'46", long 112°23'13", Hydrologic Unit 16030005.
Owner: Anaconda Copper Co.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 1,190 ft, cased to 1,115 ft, perforated 860-1,050 ft.
DATUM.--Elevation of land-surface datum is 4,780 ft above sea level. Measuring point: Top of 12-in. casing, 2.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--January 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 99.03 ft below land-surface datum, Apr. 2, 1986; lowest, 174.62 ft below land-surface datum, Aug. 24, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	140.46	130.08	124.59	121.21	119.12	117.39	133.92	139.58	144.66	150.49	153.12	155.51
10	138.74	128.70	124.10	121.03	118.67	122.54	135.51	140.41	146.68	151.39	152.68	157.04
15	138.85	127.72	123.27	120.52	118.45	120.87	137.08	141.69	148.76	151.28	154.74	158.08
20	135.70	126.88	123.01	120.31	118.14	126.58	138.08	142.74	150.02	152.24	152.93	155.96
25	133.36	126.15	122.43	119.74	117.86	131.63	137.45	144.92	149.88	151.28	152.48	149.91
EOM	131.30	125.15	121.78	119.54	117.73	133.59	138.66	144.42	151.20	152.36	152.92	146.22

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 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.02	11.99	11.60	11.24	10.98	10.59	10.39	10.44	11.20	12.06	12.74	13.37
10	12.06	11.91	11.58	11.26	10.87	10.54	10.31	10.53	11.37	12.23	12.83	13.41
15	12.03	11.87	11.43	11.17	10.87	10.50	10.38	10.59	11.44	12.36	12.93	13.53
20	12.05	11.84	11.48	11.15	10.77	10.45	10.37	10.79	11.65	12.48	13.03	13.55
25	12.04	11.80	11.43	11.03	10.72	10.40	10.34	10.92	11.77	12.57	13.14	13.57
EOM	12.00	11.65	11.34	11.06	10.68	10.42	10.43	11.06	11.94	12.67	13.24	13.50

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., depth 246 ft, cased to 220 ft.
DATUM.--Elevation of land-surface datum is 4,744.44 ft above sea level. Measuring point: Top of casing, 0.50 ft above land-surface datum.
REMARKS.--Records good except those for Oct. 1 to Aug. 2, which are fair, and 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 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.29	47.58	46.32	45.22	44.32	e43.40	44.12	e47.81	49.61	51.73	53.24	53.42
10	48.96	47.33	46.14	e45.12	44.10	43.25	e44.53	48.43	50.31	51.67	52.87	53.40
15	48.63	47.15	45.94	44.94	43.98	43.14	45.10	48.88	51.11	52.43	52.55	53.07
20	48.37	46.93	45.80	44.83	43.81	e43.00	46.22	e49.46	51.39	52.75	52.61	52.41
25	48.10	46.73	45.61	44.62	43.67	e42.86	46.42	e49.37	51.79	52.77	53.06	52.21
EOM	47.81	46.53	45.40	44.51	43.62	42.76	46.92	49.23	51.83	e53.17	53.28	51.84

384906112330601. LOCAL NUMBER, (C-23-6)17baa-1.
LOCATION.--Lat 38°49'06", long 112°33'06", Hydrologic Unit 16030005.
Owner: Boyd Watts.
AQUIFER.--
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 18 in., depth 262 ft, cased to 140 ft.
DATUM.--Elevation of land-surface datum is 4,711.00 ft above sea level. Measuring point: Top of casing, 2.0 ft above land-surface datum.
REMARKS.--Records good except for estimated days, which are poor.
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 datum, Sept. 6, 1979.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	37.01	35.83	35.45	35.17	35.15	34.99	36.02	38.14	39.08	38.82	40.45	42.19
10	36.66	35.61	35.46	35.31	35.02	34.97	36.33	38.63	39.14	40.35	41.03	42.57
15	36.40	35.74	35.27	35.17	35.12	34.96	36.22	38.25	38.85	40.64	41.55	42.19
20	36.30	35.65	35.43	35.26	35.10	35.00	e36.60	38.77	39.29	40.83	40.81	43.75
25	36.12	e35.60	35.33	35.06	35.05	34.93	e37.00	38.11	38.84	40.73	41.70	42.54
EOM	35.91	35.52	35.27	35.27	35.14	34.94	e37.30	38.27	38.77	41.60	41.65	40.96

SALT LAKE COUNTY

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 sea level. 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, July 25, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	58.40	58.27	58.27	58.32	58.58	58.72	59.00	59.25	59.31	59.20	59.02	58.81
10	58.34	58.24	58.32	58.42	58.51	58.78	58.97	59.33	59.35	59.21	58.99	58.72
15	58.22	58.29	58.20	58.42	58.62	58.84	59.11	59.28	59.28	59.20	58.88	58.77
20	58.27	58.31	58.35	58.49	58.62	58.86	59.16	59.35	59.32	59.16	58.85	58.74
25	58.25	58.29	58.37	58.42	58.63	58.88	59.15	59.33	59.28	59.12	58.85	58.71
EOM	58.21	58.21	58.37	58.60	58.68	59.00	59.24	59.34	59.29	59.06	58.79	58.63

403452111484301. LOCAL NUMBER, (D-3-1)2ccc-1.
LOCATION.--Lat 40°34'52", long 111°48'43", Hydrologic Unit 16020204.
Owner: Metropolitan Water District.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 24 in., depth 1,007 ft, perforated 525-990 ft.
DATUM.--Elevation of land-surface datum is 5,000 ft above sea level. Measuring point: Top of flange, at land-surface datum.
REMARKS.--Records good except for period Oct. 1 to Jan. 6, which is fair.
PERIOD OF RECORD.--March 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 515.66 ft below land-surface datum, Nov. 25, 1958; lowest, 596.0 ft below land-surface datum, Oct. 25-31, 1992.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	586.86	580.94	574.65	571.10	568.45	566.68	564.78	564.39	567.68	574.82	583.93	589.69
10	586.44	579.29	574.16	570.93	567.88	566.52	564.33	564.82	568.74	576.27	585.43	590.11
15	585.61	578.35	573.28	570.21	567.85	566.15	564.35	565.00	569.47	577.83	585.69	591.09
20	584.89	577.17	573.20	570.00	567.31	565.80	563.94	565.52	570.64	579.47	586.76	591.38
25	583.70	576.58	572.68	569.06	566.96	565.39	563.97	566.20	571.74	580.68	587.86	590.50
EOM	582.01	575.44	572.23	569.16	566.98	565.10	564.48	566.91	573.21	582.55	588.88	589.62

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.--Elevation of land-surface datum is 6,916 ft above sea level. Measuring Point: Top of casing, .60 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--July 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 160.15 ft below land-surface datum, Apr. 25, 1994; lowest, 202.89 ft below land-surface datum, July 25, 1958.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	161.06	160.86	160.80	160.54	160.69	160.66	160.33	160.48	160.57	160.57	160.85	160.88
10	160.98	160.91	160.94	160.68	160.58	160.68	160.25	160.50	160.66	160.80	160.89	160.80
15	160.83	160.84	160.46	160.73	160.80	160.72	160.46	160.40	160.59	160.76	160.85	160.80
20	160.93	161.00	160.72	160.87	160.51	160.45	160.62	160.42	160.71	160.77	160.77	160.80
25	160.99	160.80	161.05	160.51	160.61	160.47	160.15	160.51	160.65	160.87	160.87	160.78
EOM	160.92	160.80	160.80	160.77	160.54	160.65	160.43	160.61	160.72	160.79	160.76	160.59

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.--
WELL CHARACTERISTICS.--Drilled stock artesian well, diameter 7 in., depth 140 ft.
DATUM.--Elevation of land-surface datum is 6,200 ft above sea level. 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, Sept. 20, 1988; lowest, 57.23 ft below land-surface datum, Oct. 20, 1960.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	42.80	42.92	43.24	43.24	43.86	44.14	44.27	44.83	43.60	42.95	42.64	42.76
10	42.84	43.02	43.49	43.51	43.74	44.31	44.33	44.84	43.55	43.03	42.68	42.67
15	42.66	43.07	42.97	43.63	44.13	44.37	44.65	44.50	43.20	42.85	42.61	42.79
20	42.90	43.28	43.36	43.85	43.90	44.17	44.88	44.31	43.39	42.73	42.60	42.82
25	42.92	43.17	43.70	43.46	44.06	44.17	44.46	44.10	43.19	42.67	42.69	42.83
EOM	42.91	43.14	43.58	43.95	44.00	44.63	44.94	43.79	43.11	42.60	42.61	42.62

TOOELE COUNTY

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 4,850 ft above sea level. 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 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	76.95	76.62	76.11	75.69	75.55	75.28	75.17	75.10	75.47	76.32	77.55	78.13
10	76.98	76.44	76.12	75.82	75.38	75.24	75.11	75.18	75.68	76.56	77.74	78.11
15	76.84	76.47	75.91	75.66	75.47	75.21	75.25	75.11	75.78	76.81	77.78	78.30
20	76.89	76.35	76.01	75.72	75.44	75.28	75.11	75.34	75.98	77.01	77.92	78.37
25	76.77	76.37	75.87	75.52	75.38	75.21	75.07	75.34	76.02	77.18	77.99	78.47
EOM	76.60	76.16	75.82	75.67	75.44	75.12	75.13	75.44	76.23	77.37	77.99	78.44

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.--Elevation of 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.
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, July 5, 1966; lowest, 8.88 ft below land-surface datum, Sept. 7, 1989.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.74	6.18	6.25	6.32	6.38	6.26	6.47	6.66	6.33	6.11	6.84	6.97
10	6.27	6.16	6.30	6.37	6.35	6.30	6.40	6.79	6.20	6.22	6.62	7.02
15	6.11	6.10	6.32	6.34	6.38	6.30	6.58	6.75	6.13	6.35	6.66	6.95
20	6.07	6.18	6.38	6.34	6.37	6.24	6.68	6.83	5.94	6.47	6.69	7.01
25	6.21	6.18	6.40	6.36	6.32	6.23	6.72	6.76	5.92	6.55	6.91	7.06
EOM	6.20	6.21	6.31	6.35	6.21	6.39	6.48	6.46	6.12	6.68	6.92	6.99

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.
PERIOD OF RECORD.--December 1954 to April 1955, March 1963 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 108.66 ft below land-surface datum, Mar. 22, 1994; lowest, 141.41 ft below land-surface datum, Aug. 15, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	109.05	109.02	108.95	108.82	108.86	108.82	108.79	108.84	108.91	108.95	109.02	e109.09
10	109.02	108.99	108.95	108.86	108.76	108.80	108.72	108.89	108.97	109.02	109.11	e109.08
15	108.98	108.98	108.83	108.86	108.87	108.80	108.82	108.87	108.88	109.01	109.14	e109.07
20	108.99	109.05	108.95	108.89	108.77	108.73	108.84	108.91	108.99	109.02	109.09	e109.06
25	109.01	109.00	108.97	108.76	108.80	108.73	108.78	108.93	108.96	109.04	109.09	e109.05
EOM	109.00	108.95	108.91	108.92	108.81	108.81	108.86	108.94	109.01	109.02	e109.10	e109.04

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.--Land-surface datum is 4,555.03 ft above sea level. Measuring point: Top of recorder platform, 3.50 ft above land-surface datum.
REMARKS.--Water level affected by nearby pumping.
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, 35.29 ft below land-surface datum, Aug. 31, 1963.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.53	16.05	14.25	13.76	e12.83	12.72	13.32	14.12	19.57	25.27	26.78	27.11
10	17.73	15.83	14.04	13.31	e12.73	12.05	12.55	16.08	23.74	24.39	24.32	27.32
15	16.69	15.47	13.88	13.17	e12.63	12.14	13.24	16.40	26.36	29.22	23.04	25.57
20	16.22	15.09	13.49	e13.15	e12.53	12.61	14.60	17.34	28.94	29.04	24.76	25.89
25	16.13	14.90	13.60	e13.05	e12.43	12.55	14.66	18.66	29.08	26.10	25.18	26.04
EOM	16.02	14.63	13.77	e12.93	e12.37	13.15	13.62	19.12	30.03	25.58	24.90	24.95

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 sea level. Measuring point: Top of wood covering well, 11.60 ft below land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--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, July 06, 1989; lowest, 17.16 ft below land-surface datum Feb. 07, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, APRIL 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 29, 1993	13.50	NOV 01, 1993	13.43	MAY 10, 1994	13.83
JUN 28, 1993	12.94	DEC 06, 1993	14.50	JUN 14, 1994	13.17
AUG 05, 1993	13.58	JAN 18, 1994	15.66	JUL 05, 1994	13.46
SEP 08, 1993	12.98	MAR 02, 1994	15.26	AUG 02, 1994	13.16
OCT 04, 1993	13.09	APR 11, 1994	15.11	SEP 01, 1994	13.08

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 sea level. 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, June 28, 1993; lowest, 23.89 ft below land-surface datum, Mar. 20, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, APRIL 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 29, 1993	3.09	NOV 01, 1993	4.33	MAY 10, 1994	2.85
JUN 28, 1993	2.05	DEC 06, 1993	4.73	JUN 14, 1994	4.00
AUG 05, 1993	2.62	JAN 18, 1994	5.05	JUL 05, 1994	5.14
SEP 08, 1993	5.23	MAR 02, 1994	4.53	AUG 02, 1994	6.10
OCT 04, 1993	5.12	APR 11, 1994	3.75	SEP 01, 1994	6.48

403325111254601. LOCAL NUMBER, (D-3-5)18cba-1.
LOCATION.--Lat 40°33'25", long 111°25'46", Hydrologic Unit 16020202.
Owner: North Orem LDS Stake.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--
DATUM.--Elevation of land-surface datum is 5,700 ft above sea level. 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, 10.83 ft below land-surface datum, Aug. 05, 1993; lowest, 28.24 ft below land-surface datum, Aug. 02, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, APRIL 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 29, 1993	13.33	OCT 04, 1993	11.71	APR 11, 1994	17.23
AUG 05, 1993	10.83	DEC 06, 1993	16.07	MAY 10, 1994	12.44
SEP 08, 1993	11.72	MAR 02, 1994	18.30	SEP 01, 1994	12.85

403305111251901. LOCAL NUMBER, (D-3-5)18dcc-1.
LOCATION.--Lat 40°33'05", long 111°25'19", Hydrologic Unit 16020203.
Owner: Hugh Smith.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISITCS.--Diameter 8 in., depth 243 ft.
DATUM.--Elevation of land-surface datum is 5,695 ft above sea level. Measuring point: Top of casing, 2.45 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, 89.41 ft below land-surface datum, June 01, 1989; lowest, 99.62 ft below land-surface datum, Apr. 11, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, APRIL 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 29, 1993	96.73	NOV 01, 1993	95.94	MAY 10, 1994	93.54
JUN 28, 1993	91.71	DEC 06, 1993	98.43	JUN 14, 1994	89.87
AUG 05, 1993	91.19	JAN 18, 1994	99.19	JUL 05, 1994	95.51
SEP 08, 1993	92.03	MAR 02, 1994	99.38	AUG 02, 1994	94.80
OCT 04, 1993	92.13	APR 11, 1994	99.62	SEP 01, 1994	93.64

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 sea level. 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, 21.94 ft below land-surface datum, Apr. 11, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, JUNE 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUN 28, 1993	14.79	DEC 06, 1993	17.40	JUN 14, 1994	15.28
AUG 05, 1993	14.96	JAN 18, 1994	19.80	JUL 05, 1994	16.48
SEP 08, 1993	16.07	MAR 02, 1994	21.69	AUG 02, 1994	16.39
OCT 04, 1993	16.54	APR 11, 1994	21.94	SEP 01, 1994	19.49
NOV 01, 1993	16.37	MAY 10, 1994	14.66		

403237111255201. LOCAL NUMBER, (D-3-5)19cbb-1.
LOCATION.--Lat 40°32'37", long 111°25'52", Hydrologic Unit 16020203.
Owner: Don D. Sorenson
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--
DATUM.--Elevation of land-surface datum is 5,650 ft above sea level. Measuring point: Top of casing, 2.50 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--July 1988 to August 1989, April 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.65 ft below land-surface datum, June 14, 1994; lowest, 11.63 ft below land-surface datum, Apr. 12, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, APRIL 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 29, 1993	8.22	NOV 01, 1993	8.94	MAY 10, 1994	8.02
JUN 28, 1993	8.18	DEC 06, 1993	9.28	JUN 14, 1994	7.65
AUG 05, 1993	8.39	JAN 18, 1994	9.94	JUL 05, 1994	8.27
SEP 08, 1993	8.80	MAR 02, 1994	9.72	AUG 02, 1994	8.44
OCT 04, 1993	9.09	APR 11, 1994	10.33	SEP 01, 1994	8.30

WATSATCH COUNTY--Continued

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 sea level. Measuring point: Top of concrete platform, 1.00 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, Sept. 13, 1974; lowest, 11.14 ft below land-surface datum, Mar. 31, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, MARCH 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 29, 1993	6.04	NOV 01, 1993	2.79	MAY 10, 1994	6.88
APR 29, 1993	5.11	DEC 06, 1994	6.88	JUN 14, 1994	2.15
JUN 28, 1993	1.30	JAN 18, 1994	7.82	JUL 05, 1994	2.55
AUG 05, 1993	1.03	MAR 02, 1994	7.94	AUG 02, 1994	2.42
SEP 08, 1993	2.49	MAR 30, 1994	10.01	SEP 01, 1994	4.94
OCT 04, 1993	2.49	APR 11, 1994	10.29		

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 sea level. 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, 0.21 ft below land-surface datum, June 28, 1993; lowest, 2.77 ft below land-surface datum, Jan. 03, Feb. 09, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, APRIL 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 29, 1993	0.28	NOV 01, 1993	2.43	MAY 10, 1994	1.91
JUN 28, 1993	0.21	DEC 06, 1993	2.56	JUN 14, 1994	0.59
AUG 05, 1993	1.73	JAN 18, 1994	2.76	JUL 05, 1994	2.65
SEP 08, 1993	0.95	MAR 02, 1994	0.57	AUG 02, 1994	2.27
OCT 04, 1993	2.40	APR 11, 1994	2.35	SEP 01, 1994	1.99

403004111280301. LOCAL NUMBER, (D-4-4)2bcd-1.
LOCATION.--Lat 40°30'04", long 111°28'03", Hydrologic Unit 16020203.
Owner: E. Dealton Partridge.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Diameter 6 in., depth 105 ft.
DATUM.--Elevation of land-surface datum is 5,500 ft above sea level. Measuring point: Top of cap on casing, 5.00 ft below land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--April 1994 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 47.83 ft below land-surface datum, June 14, 1994; lowest, 51.48 ft below land-surface datum, Apr. 11, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, APRIL 1994 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 11, 1994	51.48	JUN 14, 1994	47.83	AUG 02, 1994	49.98
MAY 10, 1994	49.41	JUL 05, 1994	49.43	SEP 01, 1994	48.69

402955111281101. LOCAL NUMBER, (D-4-4)2cbb-1.
LOCATION.--Lat 40°29'55", long 111°28'11", Hydrologic Unit 16020203.
Owner: David A. Kinsey.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Diameter 6 in., depth 158 ft.
DATUM.--Elevation of land-surface datum is 5,480 ft above sea level. Measuring point: Bottom of cap at wiring entrance, 2.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--April 1994 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 22.19 ft below land-surface datum, June 14, 1994; Lowest, 25.10 ft below land-surface datum, Apr. 11, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, APRIL 1994 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 11, 1994	25.10	JUN 14, 1994	22.19	AUG 02, 1994	23.58
MAY 10, 1994	23.80	JUL 05, 1994	22.90	SEP 01, 1994	23.18

402937111283501. LOCAL NUMBER, (D-4-4)3dcd-1.
LOCATION.--Lat 40°29'37", long 111°28'35", Hydrologic Unit 16020203.
Owner: Pride Lane Farm.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--
DATUM.--Elevation of land-surface datum is 5,475 ft above sea level. 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, 8.39 ft below land-surface datum, Aug. 05, 1993; lowest, 13.69 ft below land-surface datum, Apr. 13, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, MAY 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 03, 1993	12.56	NOV 01, 1993	11.01	MAY 10, 1994	12.77
JUN 28, 1993	8.46	DEC 06, 1993	12.86	JUN 14, 1994	11.39
AUG 05, 1993	8.39	JAN 18, 1994	13.48	JUL 05, 1994	12.01
SEP 08, 1993	9.66	MAR 02, 1994	13.11	AUG 02, 1994	12.73
OCT 04, 1993	10.27	APR 11, 1994	13.67	SEP 01, 1994	12.32

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 sea level. 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, June 28, 1993; lowest, 3.99 ft below land-surface datum, Aug. 02, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, MAY 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 03, 1993	3.47	NOV 01, 1993	3.23	MAY 10, 1994	2.98
JUN 28, 1993	0.81	DEC 06, 1993	3.43	JUN 14, 1994	2.28
AUG 05, 1993	2.25	JAN 18, 1994	3.64	JUL 05, 1994	3.60
SEP 08, 1993	3.24	MAR 02, 1994	3.13	AUG 02, 1994	3.99
OCT 04, 1993	3.19	APR 11, 1994	3.35	SEP 01, 1994	3.84

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 sea level. 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, July 03, 1950; lowest, 66.82 ft below land-surface datum, Apr. 11, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, JULY 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUL 01, 1993	37.92	DEC 06, 1993	58.79	JUN 14, 1994	39.40
AUG 05, 1993	36.37	JAN 18, 1994	63.50	JUL 05, 1994	45.36
SEP 08, 1993	44.56	MAR 02, 1994	64.74	AUG 02, 1994	50.82
OCT 04, 1993	49.12	APR 11, 1994	66.82	SEP 01, 1994	55.12
NOV 01, 1993	50.13	MAY 10, 1994	48.74		

402809111281601. LOCAL NUMBER, (D-4-4)15daa-1.
LOCATION.--Lat 40°28'09", long 111°28'16", Hydrologic Unit 16020203.
Owner: Verlo E. Kendrick.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Depth 28 ft.
DATUM.--Elevation of land-surface datum is 5,430 ft above sea level. Measuring point: Top of casing, 0.0 ft at land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--July to September 1988, May 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.21 ft below land-surface datum, June 28, 1993; lowest, 18.88 ft below land-surface datum, Sept. 08, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, MAY 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 03, 1993	14.53	NOV 01, 1993	16.39	JUL 05, 1994	10.87
JUN 28, 1993	3.21	MAR 02, 1994	17.06	AUG 02, 1994	14.98
AUG 05, 1993	5.94	APR 11, 1994	15.72	SEP 01, 1994	14.98
SEP 08, 1993	9.43	MAY 10, 1994	11.75		
OCT 04, 1993	13.52	JUN 14, 1994	5.66		

WASATCH COUNTY--Continued

402753111282001. LOCAL NUMBER, (D-4-4)15ddd-3.
LOCATION.--Lat 40°27'53", long 111°28'20", Hydrologic Unit 16020202.
Owner: U.S. Geological Survey.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 2 in., depth 30 ft.
DATUM.--Elevation of land-surface datum is 5,420 ft above sea level. Measuring point: Top of casing, 2.60 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--December 1988 to August 1989, May 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.70 ft above land-surface datum, June 28, 1993; lowest, 15.98 ft below land-surface datum, Jan. 3, 1989.

WATER LEVELS IN FEET ABOVE OR BELOW (-) LAND SURFACE DATUM, MAY 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 03, 1993	-8.76	NOV 01, 1993	-11.70	MAY 10, 1994	-3.37
JUN 28, 1993	2.70	DEC 06, 1993	-11.92	JUN 14, 1994	1.03
AUG 05, 1993	0.48	JAN 18, 1994	-11.58	JUL 05, 1994	-5.00
SEP 08, 1993	-5.11	MAR 02, 1994	-8.73	AUG 02, 1994	-9.94
OCT 04, 1993	-8.88	APR 11, 1994	-6.99	SEP 01, 1994	-11.97

402742111281501. 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 sea level. Measuring point: Top of sandstone slab over well, at 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, June 28, 1993; lowest, 23.37 ft below land-surface datum, Feb. 07, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, MAY 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 03, 1993	15.64	NOV 01, 1993	19.01	MAY 10, 1994	9.34
JUN 28, 1993	6.68	DEC 06, 1993	20.92	JUN 14, 1994	8.50
AUG 05, 1993	7.20	JAN 18, 1994	21.92	JUL 05, 1994	12.34
SEP 08, 1993	11.33	MAR 02, 1994	19.24	AUG 02, 1994	16.18
OCT 04, 1993	14.12	APR 11, 1994	18.11	SEP 01, 1994	16.38

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 sea level. 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, 15.59 ft below land-surface datum, July 05, 1994; lowest, 34.07 ft below land-surface datum, Jan. 18, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, JUNE 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUN 28, 1993	16.48	DEC 06, 1993	32.27	JUN 14, 1994	16.86
AUG 05, 1993	20.81	JAN 18, 1994	34.07	JUL 05, 1994	15.59
SEP 08, 1993	21.09	MAR 02, 1994	24.97	AUG 02, 1994	19.49
OCT 04, 1993	22.35	APR 11, 1994	27.91	SEP 01, 1994	24.09
NOV 01, 1993	27.33	MAY 10, 1994	30.37		

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 sea level. 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, 4.02 ft below land-surface datum, Sept. 08, 1993; lowest, 35.07 ft below land-surface datum, Apr. 11, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, AUGUST 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG 05, 1993	4.37	JAN 18, 1994	29.42	JUL 05, 1994	17.02
SEP 08, 1993	4.02	MAR 02, 1994	32.55	AUG 02, 1994	19.04
OCT 04, 1993	16.00	APR 11, 1994	35.07	SEP 01, 1994	19.47
NOV 01, 1993	19.93	MAY 10, 1994	29.00		
DEC 06, 1993	24.52	JUN 14, 1994	18.36		

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 sea level. 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, 60.78 ft below land-surface datum, Aug. 05, 1993; lowest, 107.56 ft below land-surface datum, Mar. 2, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, JUNE 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUN 28, 1993	66.90	DEC 06, 1993	90.34	JUN 14, 1994	80.87
AUG 05, 1993	60.78	JAN 18, 1994	100.30	JUL 05, 1994	76.62
SEP 08, 1993	66.88	MAR 02, 1994	107.56	AUG 02, 1994	81.38
OCT 04, 1993	74.14	APR 11, 1994	111.23	SEP 01, 1994	87.23
NOV 01, 1993	80.69	MAY 10, 1994	101.21		

402834111202601. LOCAL NUMBER, (D-4-5)14aac-1.
LOCATION.--Lat 40°28'34", Long 111°20'26", Hydrologic Unit 16020203.
Owner: Sweat
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Diameter 6 in., depth 104 ft.
DATUM.--Elevation of land-surface datum is 6,020 ft above sea level. Measuring point: Lip of access hole, 2.47 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, 5.63 ft below land-surface datum, July 6, 1989; lowest, 11.72 ft below land-surface datum, Jan. 18, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, MAY 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 03, 1993	7.26	NOV 01, 1993	11.55	MAY 10, 1994	11.02
JUN 28, 1993	8.42	DEC 06, 1993	11.68	JUN 14, 1994	10.77
AUG 05, 1993	9.84	JAN 18, 1994	11.72	JUL 05, 1994	10.07
SEP 08, 1993	9.11	MAR 02, 1994	11.63	AUG 02, 1994	10.66
OCT 04, 1993	10.82	APR 11, 1994	11.63	SEP 01, 1994	11.47

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 sea level. 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, MAY 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 03, 1993	16.16	NOV 01, 1993	16.22	MAY 10, 1994	20.16
JUN 28, 1993	15.78	DEC 06, 1993	17.20	JUN 14, 1994	20.82
AUG 05, 1993	15.94	JAN 18, 1994	17.68	JUL 05, 1994	21.52
SEP 08, 1993	18.57	MAR 02, 1994	18.39	AUG 02, 1994	22.62
OCT 04, 1993	16.96	APR 11, 1994	19.89	SEP 01, 1994	21.67

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 sea level. 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, 123.96 ft below land-surface datum, Aug. 05, 1993; lowest, 135.48 ft below land-surface datum, Mar. 7, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, MAY 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 03, 1993	129.97	NOV 01, 1993	127.77	MAY 10, 1994	129.45
JUN 28, 1993	125.97	DEC 06, 1993	129.19	JUN 14, 1994	128.59
AUG 05, 1993	123.96	JAN 18, 1994	130.00	JUL 05, 1994	129.67
SEP 08, 1993	127.09	MAR 02, 1994	130.87	AUG 02, 1994	132.30
OCT 04, 1993	127.60	APR 11, 1994	130.66	SEP 01, 1994	135.37

WASATCH COUNTY--Continued

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 sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--October 1988 to August 1989, May 1993 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 79.22 ft below land-surface datum, May 10, 1994; lowest, 95.16 ft below land-surface datum, Dec. 08, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, MAY 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 03, 1993	84.40	NOV 01, 1993	86.56	MAY 10, 1994	79.22
JUN 28, 1993	85.43	DEC 06, 1993	94.65	JUN 14, 1994	90.94
AUG 05, 1993	90.83	JAN 18, 1994	94.87	JUL 05, 1994	92.73
SEP 08, 1993	89.46	MAR 02, 1994	92.64	AUG 02, 1994	86.66
OCT 04, 1993	93.22	APR 11, 1994	94.67	SEP 01, 1994	86.02

WASHINGTON COUNTY

370231113320301. LOCAL NUMBER, (C-43-15)16dac-1.
LOCATION.--Lat 37°02'31", long 113°32'03", Hydrologic Unit 15010009.
Owner: Kent Bentley.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 14 in., depth 150 ft.
DATUM.--Elevation of land-surface datum is 2,678.00 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--September 1985 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 40.32 ft below land-surface datum, May 8, 9, 1992; lowest, 43.73 ft below land-surface datum, Sept. 5, 21, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	41.44	41.56	41.46	41.37	41.47	41.38	41.47	41.49	41.59	41.76	42.13	40.86
10	41.45	41.48	41.48	41.49	41.37	41.39	41.46	41.56	41.67	41.83	42.19	40.82
15	41.44	41.54	41.33	41.45	41.49	41.40	41.57	41.49	41.65	41.90	42.21	40.98
20	41.55	41.53	41.51	41.49	41.46	41.43	41.52	41.57	41.76	41.92	41.93	41.09
25	41.49	41.58	41.48	41.36	41.39	41.43	41.50	41.54	41.70	41.99	41.25	41.07
EOM	41.48	41.48	41.48	41.53	41.47	41.46	41.57	41.56	41.72	42.07	40.85	41.02

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 sea level. 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, June 5, 1985; lowest, 34.96 ft below land-surface datum, Nov. 30, 1956.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.81	18.24	18.66	17.22	17.67	17.22	14.47	13.25	14.70	19.12	22.50	25.60
10	20.41	17.77	17.29	18.02	18.37	15.99	15.57	13.79	14.53	18.36	22.26	25.66
15	19.65	17.58	17.17	17.47	17.01	15.98	15.05	12.90	16.13	20.28	23.36	25.15
20	19.43	17.67	17.86	18.42	18.04	15.43	15.13	13.51	14.48	20.06	23.54	26.11
25	19.28	18.13	17.83	17.59	16.78	14.56	14.22	15.34	17.33	21.48	23.88	26.06
31	19.10	17.62	17.20	18.55	16.38	15.68	13.04	15.00	16.86	22.18	24.89	26.00

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.--Elevation of land-surface datum is 4,275 ft above sea level. 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, 19.67 ft. below land-surface datum, Sept. 2, 3, 1992.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e12.20	11.25	10.72	10.26	9.70	10.53	10.15	9.40	9.25	10.33	11.77	12.69
10	11.95	11.14	10.69	10.14	9.49	10.87	9.91	9.36	9.31	10.69	11.95	12.80
15	11.69	11.00	10.64	10.14	9.53	11.11	9.81	9.28	9.31	11.00	12.12	12.92
20	11.50	11.05	10.74	10.06	9.73	10.87	9.71	9.27	9.43	e11.20	12.22	12.98
25	11.33	11.02	10.73	9.88	10.09	10.54	9.56	9.28	9.60	11.36	12.34	12.96
EOM	11.26	10.85	10.49	9.84	10.25	10.36	9.51	9.28	9.96	11.59	12.52	12.90

e Estimated.

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (CA,MG) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
BEAVER COUNTY										
383101112365301	(C-26- 7)26cac- 1	100VLFL	250.00	06-22-94	620	7.9	15.5	--	--	--
382924112592901	(C-28-10) 5add- 1	100VLFL	305.00	08-24-94	800	8.0	18.0	--	--	--
382336112592601	(C-28-10) 8add- 2	100VLFL	200.00	07-27-94	1120	7.6	15.5	350	89	30
		100VLFL	200.00	08-24-94	880	7.9	17.0	--	--	--
382204113001302	(C-28-10)17cdc- 2	100VLFL	220.00	08-11-94	690	7.9	26.0	--	--	--
382019112591701	(C-28-10)28ccc- 1	100VLFL	316.00	08-11-94	1200	7.7	16.0	--	--	--
382313113020901	(C-28-11)12dbc- 2	100VLFL	460.00	08-11-94	2310	7.3	18.0	--	--	--
382020113015701	(C-28-11)25dcd- 1	100VLFL	431.00	08-11-94	1680	7.3	18.0	--	--	--
381625112412901	(C-29- 7)19bcd- 1	100VLFL	256.00	06-22-94	530	7.4	13.0	--	--	--
381516112422201	(C-29- 8)25cac- 1	100VLFL	250.00	06-22-94	300	8.0	19.5	--	--	--
381435112471401	(C-29- 8)31add- 1	100VLFL	310.00	06-22-94	780	7.4	14.0	--	--	--
381835113000001	(C-29-10) 5cdd- 2	100VLFL	95.00	08-11-94	960	7.7	14.5	--	--	--
381714113003401	(C-29-10)18daa- 1	100VLFL	298.00	08-11-94	510	7.7	14.5	--	--	--
381901113014101	(C-29-11) 1add- 1	100VLFL	64.00	08-11-94	790	7.5	17.0	300	88	20
381700113033401	(C-29-11)14cdb- 1	100VLFL	--	08-11-94	450	8.1	18.0	--	--	--
381543113035501	(C-29-11)27aad- 1	100VLFL	204.00	07-19-94	820	7.5	17.0	270	81	17
		100VLFL	204.00	08-11-94	870	7.7	16.0	--	--	--
381542113052701	(C-29-11)28abc- 1	100VLFL	259.00	07-27-94	4670	7.6	14.0	1900	580	120
BOX ELDER COUNTY										
413057112023901	(B- 9- 2)15daa- 1	100VLFL	465.00	07-12-94	620	8.4	16.5	9	2.2	0.90
413300113543001	(B-10-18)33aaa- 1	100VLFL	84.00	06-30-94	1810	7.2	12.0	--	--	--
413806113543401	(B-11-18)33adb- 1	100VLFL	200.00	06-30-94	1090	7.5	12.0	--	--	--
414551112170101	(B-12- 4)22aac- 1		680.00	06-30-94	1510	--	18.0	--	--	--
414452112173401	(B-12- 4)27bdb- 1	100VLFL	500.00	06-30-94	2030	--	17.5	--	--	--
414454112173101	(B-12- 4)27dbd- 1	100VLFL	478.00	06-27-94	2680	6.8	16.5	750	170	78
414405112165701	(B-12- 4)34adb- 1	100VLFL	333.00	06-30-94	2460	--	17.5	--	--	--
414418112162301	(B-12- 4)35bab- 1	100VLFL	630.00	06-27-94	4000	--	14.5	--	--	--
414406112163601	(B-12- 4)35bbc- 1	100VLFL	668.00	06-30-94	1710	--	17.5	--	--	--
414745113063901	(B-12-11) 4bcc- 1	100VLFL	230.00	06-30-94	4400	7.4	18.5	1200	230	140
415800112462601	(B-14- 8) 5cdd- 1		180.00	06-29-94	2480	--	17.5	--	--	--
415828112472601	(B-14- 8) 6acd- 1		460.00	06-28-94	1900	--	20.0	--	--	--
415847112540401	(B-14- 9) 5bbb- 1	100VLFL	300.00	06-28-94	1040	7.4	17.5	320	90	22
415703112513501	(B-14- 9)16aaa- 1		400.00	07-01-94	2870	--	14.0	--	--	--
415635112533001	(B-14- 9)17caa- 1		608.00	07-01-94	3320	--	19.5	--	--	--
415608112551201	(B-14- 9)19bbb- 1		350.00	06-29-94	1860	--	15.5	--	--	--
415845112562201	(B-14-10) 1bbb- 1	100VLFL	414.00	06-29-94	690	7.5	16.5	210	58	15
415654112573301	(B-14-10)14bbc- 1	100VLFL	840.00	06-29-94	1510	--	24.0	--	--	--
415955112540301	(B-15- 9)29cbc- 1		400.00	06-28-94	7400	--	23.5	--	--	--
415927112525201	(B-15- 9)33bbc- 1		410.00	06-28-94	11500	--	24.5	--	--	--
415941112495801	(B-15- 9)35abb- 1		404.00	06-28-94	3690	--	24.0	--	--	--
415908112484801	(B-15- 9)36cad- 1		255.00	06-28-94	1860	--	20.5	--	--	--
415939112562201	(B-15-10)36bbb- 1	100VLFL	613.00	06-29-94	510	7.5	17.0	180	54	12
CACHE COUNTY										
415020111520401	(A-13- 1)29bcd- 1	100VLFL	173.00	07-19-94	520	7.5	13.0	200	41	23
DAVIS COUNTY										
405535111525101	(A- 2- 1) 7aba- 4	100VLFL	450.00	07-13-94	250	7.7	15.0	67	14	7.8
405351111540803	(B- 2- 1)24bad- 3	100VLFL	386.00	07-13-94	490	7.6	16.0	120	35	8.0
GRAND COUNTY										
384247109355501	(D-25-21)35ddc- 1		--	03-15-94	--	--	--	--	--	--
IRON COUNTY										
375257112483501	(C-33- 8)31ccc- 1	100VLFL	450.00	06-22-94	450	7.8	19.5	190	40	21
375320112510003	(C-33- 9)35acd- 3	100VLFL	880.00	06-22-94	450	7.7	15.0	200	42	23
375151112525002	(C-34- 9) 9bbd- 2	100VLFL	324.00	06-22-94	510	7.6	13.0	--	--	--
375006112554801	(C-34-10)24abc- 1	100VLFL	135.00	06-22-94	520	7.4	15.0	--	--	--
374834113384301	(C-34-16)28dcc- 2	100VLFL	148.00	08-16-94	1110	7.7	14.0	450	140	25
374753113464601	(C-34-17)32cca- 1	100VLFL	306.00	08-16-94	567	7.8	19.5	220	71	9.3
374619113053101	(C-35-11) 9dba- 1	100VLFL	--	06-22-94	690	7.7	17.5	--	--	--
374550113040601	(C-35-11)11ccc- 1	100VLFL	263.00	06-22-94	930	7.7	15.0	--	--	--
374248113075201	(C-35-11)31dbb- 1	100VLFL	--	06-22-94	680	7.9	14.0	340	67	41
374649113305801	(C-35-15) 3dcc- 3	100VLFL	316.00	08-16-94	1370	7.9	15.5	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
110ALVM - ALLUVIUM, QUATERNARY AGE.
111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	ALKALINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
				BEAVER COUNTY								
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97	4.4	201	230	100	0.50	39	716	1.20	0.030	<3	<1	400
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28	4.6	187	67	90	0.30	39	460	2.50	0.030	<3	<1	60
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46	6.0	153	72	110	0.40	45	485	3.60	0.020	<3	<1	120
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300	8.6	148	940	1000	0.30	50	10200	1600	0.030	40	10	410
				BOX ELDER COUNTY								
150	1.9	311	1.3	13	0.70	20	377	<0.050	1.30	400	14	250
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170	4.1	177	100	570	0.20	26	1240	3.80	<0.010	20	<10	70
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530	21	168	52	1400	0.30	50	2530	0.670	0.020	70	<10	320
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34	11	136	28	170	0.20	57	503	2.00	0.030	24	2	50
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28	7.2	155	24	74	0.30	67	368	0.330	<0.010	7	<1	40
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18	8.5	141	17	58	0.20	62	314	--	--	<3	<1	40
				CACHE COUNTY								
23	1.5	236	11	8.0	0.10	11	261	0.200	0.020	230	56	50
				DAVIS COUNTY								
27	1.1	83	14	16	<0.10	17	147	<0.050	<0.010	130	46	20
60	0.90	177	27	30	0.20	18	293	1.80	0.050	10	9	30
				GRAND COUNTY								
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				IRON COUNTY								
21	3.5	190	20	22	0.20	29	277	1.40	0.500	6	2	60
14	2.8	186	22	18	0.20	27	269	2.00	0.050	<3	<1	50
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35	7.8	128	110	210	0.50	64	678	1.90	0.030	<3	<1	100
27	8.9	165	81	25	0.40	68	394	0.890	0.030	<3	<1	180
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9.3	2.4	148	190	14	0.30	22	441	1.40	0.070	4	<1	60
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

123DCRV - DUCHESNE RIVER FORMATION, OLIGOCENE AGE.
124UINT - UINTAH FORMATION, EOCENE AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC-TRIASSIC AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
				IRON COUNTY--Continued						
374623113381301	(C-35-16) 9add- 1	100VLFL	150.00	07-25-94	540	7.6	16.0	220	68	13
374412113384503	(C-35-16)21dcc- 3	100VLFL	300.00	07-25-94	780	7.5	15.0	350	110	19
		100VLFL	300.00	08-16-94	430	7.8	15.5	180	56	9.7
374227113394101	(C-35-16)32dcd- 2	100VLFL	140.00	08-16-94	489	7.8	17.5	200	62	11
374105113085001	(C-36-12)12dba- 1	100VLFL	600.00	08-23-94	580	7.8	14.0	280	55	34
374209113322203	(C-36-15) 4bad- 3	100VLFL	320.00	08-16-94	750	8.0	23.0	130	40	6.2
374040113343102	(C-36-15) 7cdd- 2	100VLFL	500.00	08-16-94	1020	8.0	25.0	--	--	--
374014113391101	(C-36-16) 9bcd- 2	100VLFL	--	07-25-94	480	7.5	11.0	--	--	--
		100VLFL	--	07-25-94	447	7.6	15.0	--	--	--
373854113411501	(C-36-16)19abb- 1	100VLFL	352.00	08-16-94	470	7.8	12.5	--	--	--
373542113122401	(C-37-12) 9acc- 1	100VLFL	186.00	06-23-94	365	7.7	16.5	140	48	6.0
373407113100801	(C-37-12)23acb- 2	100VLFL	365.00	06-23-94	680	7.7	16.5	270	63	28
373236113111401	(C-37-12)34abb- 1	100VLFL	190.00	06-23-94	840	7.2	12.0	430	110	37
				JUAB COUNTY						
394545111531001	(C-12- 1)24baa- 1	100VLFL	66.00	03-02-94	1230	--	12.5	--	--	--
394951111521101	(D-11- 1)30bda- 1	100VLFL	34.00	03-03-94	600	--	11.0	--	--	--
393301111512501	(D-14- 1)31dab- 1	100VLFL	420.00	07-21-94	1530	7.1	--	730	190	61
				KANE COUNTY						
371034112230401	(C-42- 5)11bdb- 1		160.00	07-27-94	370	7.7	14.0	180	44	16
370843112340602	(C-42- 6)19bdc- 2	220NVJO	250.00	07-27-94	260	8.1	14.0	120	24	15
371739112200201	(C-40- 4)32bad- 1	100VLFL	135.00	08-25-94	1200	7.7	11.0	570	110	71
				MILLARD COUNTY						
393102112194401	(C-15- 4)18daa- 1	100VLFL	406.00	07-06-94	3120	7.0	16.0	--	--	--
392859112154601	(C-15- 4)26dcc- 1	100VLFL	660.00	07-06-94	960	7.3	16.0	--	--	--
393113112215701	(C-15- 5)13bbc- 1	100VLFL	310.00	07-06-94	2160	7.6	14.5	880	170	110
392939112224101	(C-15- 5)26baa- 1	100VLFL	1150.00	07-07-94	540	7.8	19.0	170	37	20
392141113585601	(C-17-19) 4add- 2	100VLFL	760.00	08-09-94	470	7.8	16.0	140	34	14
391234112233701	(C-18- 5)34adb- 3	100VLFL	512.00	08-30-94	2610	7.3	16.5	1200	250	140
390758112194601	(C-19- 4)29bcd- 1	100VLFL	390.00	08-03-94	1050	7.4	14.0	--	--	--
390628112201401	(C-20- 4) 6aca- 1	100VLFL	506.00	08-03-94	2260	7.1	13.0	990	240	96
385939112272303	(C-21- 5) 7cdd- 3		--	08-03-94	1390	7.3	12.5	490	110	53
390005112262301	(C-21- 5) 8bdc- 2	100VLFL	407.00	08-03-94	780	7.5	17.0	320	72	33
385714112264701	(C-21- 5)29cbc- 1	100VLFL	900.00	08-02-94	2380	7.1	19.0	870	230	71
385715112271201	(C-21- 5)30dbc- 3	100VLFL	773.00	08-03-94	1690	7.2	19.0	570	140	54
390045112281201	(C-21- 6) 1ddb- 1	100VLFL	105.00	08-30-94	1880	7.4	13.0	--	--	--
385650114010601	(C-21-19)31acd- 1	100VLFL	395.00	08-09-94	680	7.3	12.5	300	84	23
385511112243501	(C-22- 5)10bbb- 2		338.00	08-30-94	1440	7.2	16.0	400	110	31
385303112234801	(C-22- 5)22adc- 2	100VLFL	260.00	08-02-94	1380	7.4	15.5	--	--	--
385026112261001	(C-23- 5) 5acd- 1	100VLFL	353.00	08-30-94	735	7.7	13.5	310	79	27
384910112321401	(C-23- 6) 9ccd- 1	100VLFL	136.00	08-30-94	6050	7.0	15.5	--	--	--
384850112310701	(C-23- 6)15bca- 1		145.00	08-02-94	3750	7.2	15.5	--	--	--
384856112315701	(C-23- 6)16bad- 1		130.00	08-02-94	5030	7.3	15.0	--	--	--
384818114002801	(C-23-19)20bac- 1	100VLFL	415.00	08-09-94	1060	7.6	19.0	300	41	49
				PIUTE COUNTY						
381440111584001	(C-29- 2)35bad- 1	122BRHD	197.00	08-08-94	470	7.6	14.5	--	--	--
381003112010301	(C-30- 2)28bdc- 1		135.00	08-08-94	--	--	--	--	--	--
				SALT LAKE COUNTY						
405047112014301	(B- 1- 2) 2dac- 1	100VLFL	440.00	08-17-94	880	8.2	28.0	48	13	3.8
404659112005601	(B- 1- 2)36baa- 1	100VLFL	464.00	08-17-94	6370	7.6	25.0	760	200	63
404158111542401	(C- 1- 1)25cca- 2	100VLFL	345.00	09-12-94	410	7.7	14.0	210	54	19
404045111594201	(C- 2- 1) 6abc- 4	100VLFL	440.00	08-30-94	275	7.5	18.0	840	170	100
403658111542701	(C- 2- 1)25cbb- 1	100VLFL	680.00	08-30-94	590	7.5	16.5	160	38	16
403637112005201	(C- 2- 2)25cdd- 1	100VLFL	308.00	09-12-94	1000	7.5	15.0	340	72	39
403408111543201	(C- 3- 1)12ccb- 1	100VLFL	118.00	08-17-94	960	7.6	20.5	--	--	--
403336111575802	(C- 3- 1)16bcc- 2	100VLFL	300.00	09-12-94	1950	7.2	15.0	1400	360	110
402721111550801	(C- 4- 1)23dbb- 1	100VLFL	262.00	08-17-94	1210	6.3	34.0	--	--	--
403027112012401	(C- 4- 2) 1bbb- 1	100VLFL	540.00	07-20-94	1290	7.2	15.0	--	--	--
404506111523301	(D- 1- 1) 7abd- 6	100VLFL	130.00	07-20-94	1220	7.2	15.0	540	130	52
404253111530901	(D- 1- 1)19cdb-17	100VLFL	500.00	08-30-94	1080	7.2	14.0	460	120	38
404040111503301	(D- 2- 1) 4acb- 1	100VLFL	230.00	09-13-94	1270	7.3	14.0	460	110	46
403742111503201	(D- 2- 1)21dbc- 1	100VLFL	740.00	07-20-94	295	--	12.5	--	--	--
403332111485001	(D- 2- 1)35bbb- 1	100VLFL	238.00	08-30-94	360	7.9	18.0	140	24	20
403252111522501	(D- 3- 1)19ada- 1	100VLFL	177.00	08-30-94	1880	7.2	16.5	650	180	49
403116111524801	(D- 3- 1)31abb- 1	100VLFL	138.00	07-20-94	460	7.3	18.5	180	39	20

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
110ALVM - ALLUVIUM, QUATERNARY AGE.
111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
					IRON COUNTY--Continued							
16	6.2	149	28	59	0.20	52	340	1.90	0.030	<3	1	50
21	6.4	227	52	79	0.20	50	497	5.30	0.020	6	<1	50
15	4.4	156	16	28	0.20	53	283	1.60	0.020	<3	<1	40
18	4.8	163	17	40	0.30	53	310	1.40	0.030	<3	<1	40
8.7	3.2	149	130	14	0.20	23	365	1.70	0.020	3	6	50
110	4.1	164	140	38	1.5	58	502	1.30	0.030	<3	<1	290
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14	3.4	136	11	26	0.20	55	250	1.00	0.040	<3	<1	50
33	1.5	182	110	36	0.10	20	416	3.50	0.050	6	1	110
14	2.0	335	130	8.5	0.20	18	526	1.20	0.030	4	<1	100
					JUAB COUNTY							
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48	2.0	267	500	64	0.30	13	1040	1.30	<0.010	19	1	80
					KANE COUNTY							
8.9	1.4	121	68	6.5	0.20	11	237	1.80	<0.010	4	<1	30
3.6	2.2	117	5.9	3.5	0.10	15	150	2.40	<0.010	<3	<1	40
44	8.2	312	340	11	0.40	10	783	0.310	0.020	3	<1	120
					MILLARD COUNTY							
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100	5.8	177	240	480	0.30	29	1240	0.130	0.010	440	330	80
33	2.2	141	48	56	0.20	26	310	0.760	0.010	5	<1	70
34	1.7	171	14	32	0.20	16	256	1.60	0.020	4	<1	70
<0.10	3.2	207	280	580	<0.10	22	--	12.0	0.010	<10	<10	70
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110	4.0	264	390	390	0.20	23	1450	7.90	0.010	<10	<10	170
110	4.0	340	190	130	0.20	26	854	6.10	0.010	<3	<1	360
47	1.9	225	74	70	0.10	22	463	1.70	0.010	3	<1	90
210	19	268	530	350	0.50	18	1600	1.60	0.010	<10	<10	900
140	14	255	300	220	0.30	18	1050	1.30	0.010	9	<1	550
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23	1.9	309	34	23	0.20	21	406	2.40	0.010	7	<1	80
130	16	251	190	190	0.80	14	841	1.80	<0.010	6	<1	790
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31	2.4	247	42	59	0.10	21	424	3.20	0.020	3	<1	90
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110	4.5	335	89	120	0.90	52	676	1.80	0.040	3	<1	320
					PIUTE COUNTY							
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					SALT LAKE COUNTY							
170	5.5	213	0.90	150	1.9	32	505	<0.050	0.030	57	24	360
1000	20	142	38	1900	1.1	49	3360	<0.050	0.010	380	130	520
13	1.7	166	55	13	0.30	14	271	0.200	<0.010	700	19	20
170	8.6	150	300	600	0.60	34	1500	4.90	0.010	<10	<10	210
46	3.2	128	59	56	0.30	14	315	1.30	<0.010	3	<1	80
80	4.2	190	46	210	0.30	23	598	2.20	<0.010	4	8	100
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81	4.3	298	670	200	<0.10	28	1640	1.90	<0.010	240	<10	80
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42	3.0	290	170	130	0.20	20	746	5.50	0.050	7	14	100
42	4.4	246	220	60	0.20	17	662	3.00	0.020	<3	<1	100
78	3.7	285	190	100	0.20	14	743	6.80	0.050	35	2	110
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9.3	2.9	136	14	10	0.60	11	180	1.50	0.020	<3	<1	40
120	12	237	370	250	0.60	23	1150	1.20	<0.010	37	1	220
15	9.9	231	0.50	10	0.40	41	276	0.066	0.650	510	430	70

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

123DCRV - DUCHESNE RIVER FORMATION, OLIGOCENE AGE.
124UINT - UINTAH FORMATION, EOCENE AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC-TRIASSIC AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.

STATION NUMBER	LOCAL IDENTIFIER	GEOLOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
				SAN JUAN COUNTY						
371716109325501	(D-40-22)30bbb- 1	220JRSC	825.00	03-17-94	790	8.7	14.5	--	--	--
371621109211001	(D-40-23)27baa- 1	220JRSC	672.00	02-28-94	3000	7.6	19.0	96	23	9.3
				SANPETE COUNTY						
390819111530701	(C-19- 1)23cac- 1	110ALVM	--	08-09-94	2230	8.0	20.5	530	96	71
393715111375301	(D-14- 3) 7abb- 1		300.00	03-03-94	--	--	--	--	--	--
			300.00	08-19-94	425	8.1	14.0	220	61	16
393239111275001	(D-15- 4) 3bdc- 1	100VLFL	204.00	08-19-94	590	--	12.0	--	--	--
393249111284601	(D-15- 4) 4bad- 2	100VLFL	360.00	08-19-94	720	--	12.0	--	--	--
393241111290501	(D-15- 4) 4bcd- 1		353.00	08-19-94	590	--	12.0	--	--	--
392740111345301	(D-16- 3) 4aaa- 1	100VLFL	160.00	03-03-94	--	--	--	--	--	--
392157111354601	(D-17- 3) 4bcc- 2		396.00	08-18-94	790	--	12.0	--	--	--
391640111384101	(D-18- 2) 1bdd- 1	100VLFL	250.00	08-18-94	920	--	12.0	--	--	--
391634111380701	(D-18- 2) 1daa- 2	100VLFL	233.00	03-01-94	--	--	--	--	--	--
		100VLFL	233.00	08-18-94	990	7.3	12.0	440	76	61
391641111391401	(D-18- 2) 2add- 1	100VLFL	154.00	08-18-94	830	--	12.0	--	--	--
				SEVIER COUNTY						
385910111512101	(C-21- 1)13abd- 1		291.00	08-09-94	760	8.1	17.5	--	--	--
384757112002201	(C-23- 2)15dcb- 4		75.00	08-09-94	660	7.7	12.0	--	--	--
384450112034001	(C-24- 2) 6abc- 1	110ALVM	308.00	08-09-94	1070	7.4	12.0	--	--	--
383140111522001	(C-26- 1)23ddb- 1	100VLFL	200.00	08-08-94	200	8.3	15.0	75	24	3.6
				TOOELE COUNTY						
405951113584301	(B- 3-19) 1ccc- 1	100VLFL	78.00	08-11-94	2360	8.0	18.0	240	85	6.4
403605112214201	(C- 2- 5)36bdd- 1	100VLFL	445.00	07-25-94	2350	--	24.0	--	--	--
403603112215801	(C- 2- 5)36cba- 1		100.00	07-25-94	2350	--	24.0	--	--	--
403652112292801	(C- 2- 6)26acd- 1		--	07-26-94	690	--	18.0	--	--	--
403914112400301	(C- 2- 7) 7dda- 1	100VLFL	505.00	06-24-94	4980	7.6	19.5	--	--	--
403514112283701	(C- 3- 6) 1bdb- 1	100VLFL	418.00	07-26-94	920	--	--	--	--	--
402525112251502	(C- 4- 5)32cca- 2	100VLFL	210.00	06-24-94	1930	7.4	13.0	--	--	--
400418112271701	(C- 8- 5)31ccd- 5	100VLFL	60.00	06-24-94	1380	7.3	12.5	450	140	25
				UINTAH COUNTY						
403116109360601	(D- 3-21)30dcd- 1	220NVJO	138.00	07-29-94	575	--	--	14	3.5	1.3
				UTAH COUNTY						
401730111594501	(C- 6- 1)18cdd- 1		265.00	06-08-94	720	7.4	29.5	--	--	--
401607112023401	(C- 6- 2)26cbb- 1	100VLFL	505.00	06-08-94	630	7.6	11.5	--	--	--
401610112053101	(C- 6- 2)29bdd- 1	100VLFL	150.00	06-09-94	400	7.4	10.0	210	56	18
402518111462701	(D- 5- 1) 1aaa- 1	100VLFL	507.00	06-15-94	435	7.8	7.5	250	66	21
402259111525201	(D- 5- 1)18cab- 2	100VLFL	618.00	06-08-94	310	7.9	15.0	--	--	--
402145111531101	(D- 5- 1)19ccc- 1	110ALVM	150.00	06-08-94	660	7.8	13.5	290	73	27
402103111461601	(D- 5- 2)30ccb- 2		225.00	06-17-94	940	7.4	12.5	370	82	41
401801111442501	(D- 6- 2)17aca- 1	100VLFL	200.00	06-17-94	560	7.4	15.0	250	62	23
401414111435301	(D- 7- 2) 4cbb- 2	100VLFL	144.00	06-15-94	510	7.5	13.0	--	--	--
401021111362701	(D- 7- 3)33baa- 6	100VLFL	138.00	06-17-94	570	7.2	13.0	--	--	--
400941111352701	(D- 7- 3)34cdb- 1	100VLFL	445.00	06-17-94	560	7.4	13.5	--	--	--
400311111432001	(D- 9- 2) 9bac- 1	100VLFL	436.00	06-17-94	600	7.3	15.0	270	64	26
				WASHINGTON COUNTY						
373456113423501	(C-37-17)12bdc- 2		290.00	08-16-94	550	7.6	12.0	220	70	12
371305113470401	(C-41-17)17cba- 1		626.00	07-26-94	470	7.5	18.5	--	--	--
370517113310402	(C-42-15)34dba- 2		265.00	07-26-94	5010	6.9	16.5	--	--	--
370036113282801	(C-43-14)31bbb- 1		--	07-26-94	3220	7.3	20.0	2100	590	140
				WAYNE COUNTY						
382717111365601	(D-27- 3)19aaa- 1		285.00	08-08-94	1570	7.4	12.0	870	260	53
381902111321101	(D-29- 3) 1cab- 1	110ALVM	433.00	08-08-94	250	8.4	19.0	97	25	8.5
				WEBER COUNTY						
411153112064602	(B- 5- 2) 6bdd- 3	100VLFL	609.00	07-12-94	368	7.9	18.0	140	39	10
411824112060601	(B- 7- 2)32bbb- 1	100VLFL	546.00	07-12-94	2450	8.1	20.5	330	66	39

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
110ALVM - ALLUVIUM, QUATERNARY AGE.
111ALVM - HOLOCENE ALLUVIUM, HOLOCENE AGE.
122BRHD - BRIAN HEAD FORMATION, MIOCENE AGE.

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
					SAN JUAN COUNTY							
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690	15	770	200	460	1.4	12	1870	<0.050	<0.010	80	50	1500
					SANPETE COUNTY							
290	7.4	347	330	330	0.40	27	1370	1.90	0.030	<10	10	460
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7.4	0.90	162	8.1	6.1	0.20	6.8	205	0.340	0.040	5	1	20
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38	1.9	277	88	19	0.30	12	493	6.90	0.020	10	1	90
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					SEVIER COUNTY							
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9.4	2.9	83	4.1	9.8	0.20	44	149	0.380	<0.010	<3	1	50
					TOOELE COUNTY							
310	13	88	17	670	<0.10	16	1170	0.370	0.040	10	<10	90
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48	1.7	95	46	270	<0.10	17	611	1.40	<0.010	82	4	40
					UINTAH COUNTY							
120	3.1	234	59	2.7	0.70	7.7	339	--	--	200	4	180
					UTAH COUNTY							
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11	0.90	188	16	24	0.10	11	254	0.970	0.020	10	<1	20
4.3	0.60	137	80	7.5	0.20	7.9	271	0.240	<0.010	5	<1	10
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13	1.5	103	71	100	0.20	15	363	<0.050	<0.010	76	10	20
39	1.9	255	150	24	0.30	16	518	2.50	<0.010	60	2	90
17	5.6	228	53	14	0.20	23	340	1.20	0.030	9	3	60
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30	8.8	267	40	27	0.30	53	425	3.50	0.020	3	<1	70
					WASHINGTON COUNTY							
27	4.7	217	19	24	0.20	45	353	4.70	0.050	<3	<1	70
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120	15	94	2000	65	0.30	15	3030	5.30	0.010	30	10	600
					WAYNE COUNTY							
31	4.2	96	740	12	0.10	32	1200	2.40	0.030	<3	<1	110
9.6	3.2	66	46	7.3	0.20	46	187	0.300	0.020	<3	<1	50
					WEBER COUNTY							
23	3.3	159	13	17	0.20	19	220	<0.050	<0.010	150	49	40
330	22	146	0.20	690	0.30	31	1270	<0.050	0.030	20	310	330

GEOLOGICAL UNIT (AQUIFER)--CONTINUED

123DCRV - DUCHESNE RIVER FORMATION, OLIGOCENE AGE.
124UINT - UINTAH FORMATION, EOCENE AGE.
220NVJO - NAVAJO SANDSTONE OF GLEN CANYON GROUP, JURASSIC-TRIASSIC AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.

STATION NUMBER	LOCAL IDENT-I-FIER	DATE	DEPTH OF WELL, TOTAL (FEET)	TEMPER-ATURE WATER (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	BROMIDE DIS-SOLVED (MG/L AS BR)	0-18 / O-16 STABLE ISOTOPE RATIO PER MIL
401819110041601	U(C-2-2)14ddb-1	06-21-94	465.00	17.0	425	7.7	1.0	0.010	-18.06
401823109590401	U(C-2-1)15cac-1	06-21-94	600.00	15.0	550	9.0	25	0.020	-17.29
401919109593201	U(C-2-1) 9dad-1	06-21-94	740.00	15.0	4720	8.1	100	0.47	-16.22
401940110023601	U(C-2-1) 7bbd-1	06-21-94	820.00	15.0	920	8.0	95	0.040	-17.17
401946110044601	U(C-2-2)11bab-1	06-21-94	666.00	14.5	430	7.6	1.8	0.020	-18.18
402114110003301	U(C-1-1)33bcc-1	06-21-94	220.00	13.0	1670	7.8	0.90	<0.010	-16.95
402116110030801	U(C-1-2)36acd-1	06-21-94	170.00	13.0	385	7.8	0.80	0.010	-18.26
402135110051901	U(C-1-2)27ddc-1	06-21-94	420.00	13.5	380	7.6	0.70	0.020	-18.40
402246110061501	U(C-1-2)22cbb-1	06-21-94	810.00	13.5	450	7.5	2.5	0.040	-17.85
402319110025601	U(C-1-2)24aaa-1	06-21-94	260.00	13.5	390	7.5	1.0	0.010	-17.96

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

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

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