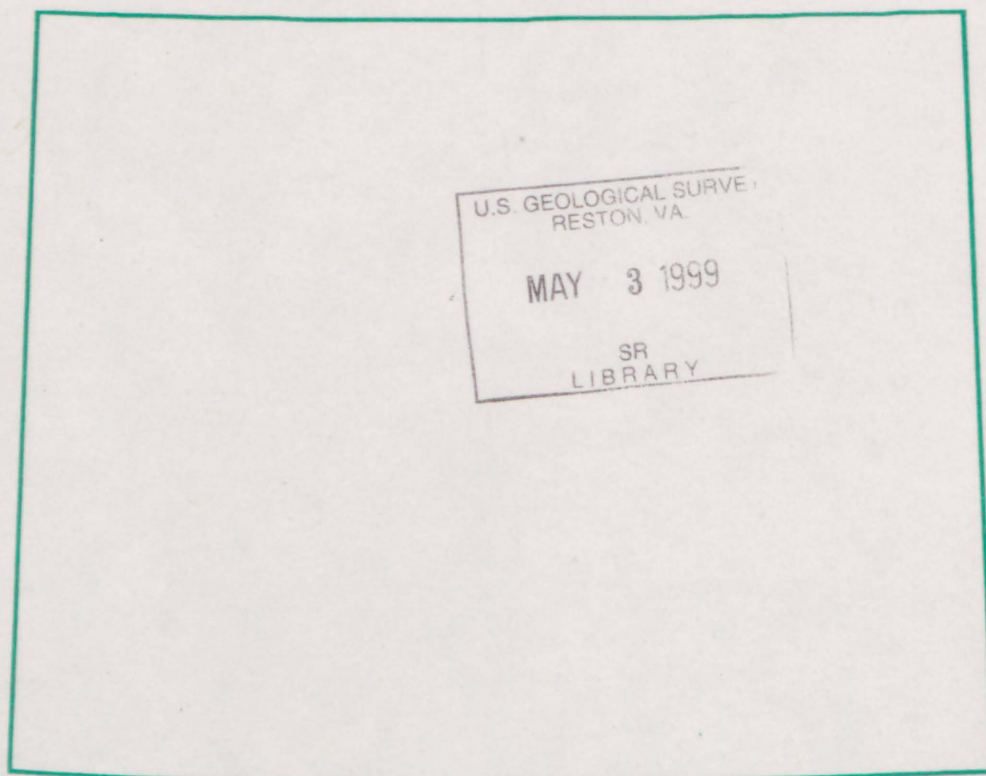


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Water Resources Data Wyoming Water Year 1995



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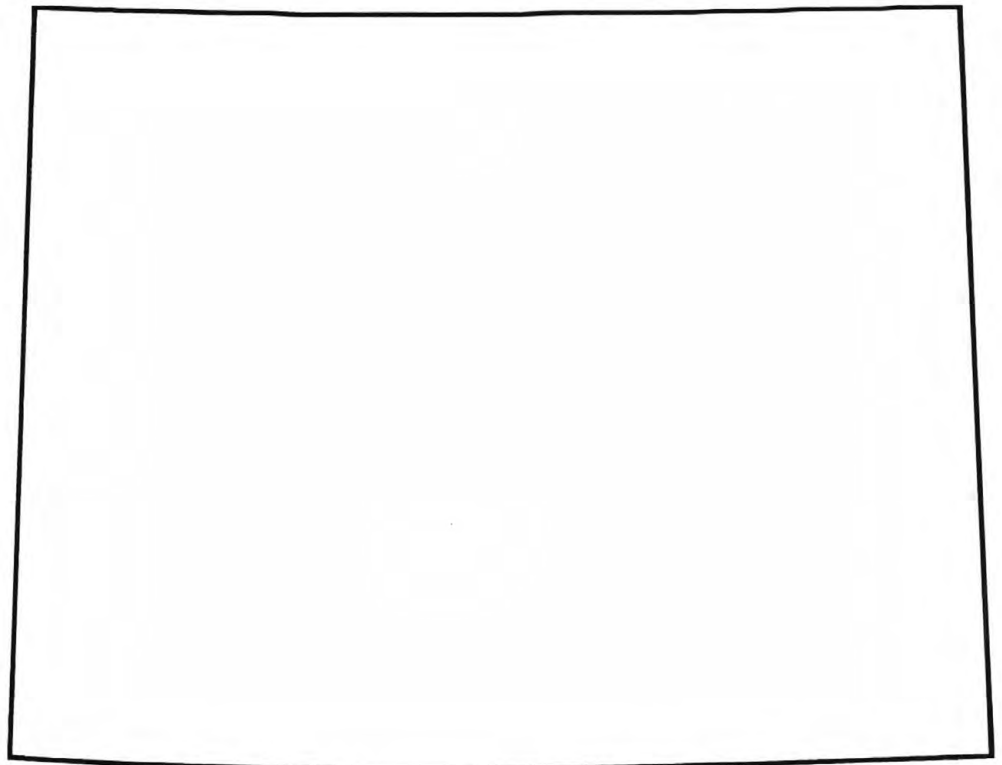
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Water Resources Data Wyoming Water Year 1995

by M. L. Smalley, R.E. Woodruff, M. L. Clark, and P. B. McCollam



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WY-95-1
Prepared in cooperation with the State of Wyoming
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

GEOLOGICAL SURVEY

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Cheyenne, Wyoming 82001

1996

WATER RESOURCES DATA - WYOMING, 1995

PREFACE

This annual hydrologic data report of Wyoming is one of a series of annual reports that documents 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 the quality of water provide the hydrologic information needed by Federal, State, and local agencies, and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey of the Wyoming District who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to U.S. Geological Survey policies and guidelines.

Most of the data were collected, computed, and processed from the Riverton Field Headquarters, M. L. Smalley, Chief, and from the Casper Field Headquarters, R. E. Woodruff, Chief. The following personnel are recognized for their significant contributions to this report:

R. C. Baumann	K. J. Hedmark	K. Miller	K. R. Watson
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S. L. Green, P. I. Brown, L. Littau, and L. D. Young typed and assembled the report.

This report was prepared under the general supervision of Barney Lewis, District Chief, Wyoming, and in cooperation with the State of Wyoming and with other agencies.

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13. ABSTRACT (Maximum 200 words) Water resources data for the 1995 water year for Wyoming consists 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 186 gaging stations; stage and contents for 16 lakes and reservoirs; water quality for 34 gaging stations and 22 ungaged stations; and water levels for 7 observation wells. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Wyoming.				
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SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH
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[Letters after station names designate type of data: (d) discharge, (c) chemical, (b) biological, (m) microbiological, (r) radiochemical, (s) sediment, (t) daily water temperature, (e) elevation, (v) contents]

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DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS

The following surface-water, water-quality, sediment, and biological stations have been operated in and adjacent to Wyoming. The listing includes both discontinued and currently (1995) active stations. Reservoir stations are also included. Records have been collected and published for the period of record, expressed in calendar years, shown for each station. The listing is limited to those stations that have been part of systematic data-collection monitoring networks. Miscellaneous sites are not included. [--, drainage area not determined or no record available]

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN								
MADISON RIVER BASIN								
Firehole River (head of Madison River) near West Yellowstone, Mont.....	06036905	282	1983-93.	--	1983-93.	1988-93.	--	
Gibbon River near West Yellowstone, Mont.....	06037000	118	1913-16;1983-93.	--	1983-93.	1988-93.	--	
Madison River near West Yellowstone, Mont.....	06037500	420	1913-73;1983-86; 1988-	--	1983-86; 1989-	1989-	--	
GALLATIN RIVER BASIN								
Gallatin (West Gallatin) River near Gallatin Gateway (Bozeman), Mont.....	06043500	825	1889-94;1930-81; 1984-	--	--	--	--	
YELLOWSTONE RIVER BASIN								
Yellowstone Lake at Bridge Bay (Lake Hotel), Yellowstone National Park	06186000	1,006	1921a-82a.	--	--	--	--	
Yellowstone River at Yellowstone Lake outlet, Yellowstone National Park	06186500	1,006	1922-86; 1988-	--	--	--	--	
Tower Creek at Tower Falls, Yellowstone National Park	06187500	50.4	1922-43.	--	--	--	--	
Yellowstone River at Tower Junction, Yellowstone National Park	06187550	1,342	1983-86.	--	--	--	--	
Soda Butte Creek near Lamar Ranger Station, Yellowstone National Park.....	06187950	99.0	1988-	--	1988-89.	1988-89.	--	
Lamar River near Tower Falls Ranger Station, Yellowstone National Park.....	06188000	660	1922-69;1985-86; 1988-	--	1985-86; 1988-92.	1988-92.	--	
Blacktail Deer Creek:								
East Fork Blacktail Deer Creek near Mammoth, Yellowstone National Park.....	06188500	10.3	1937-41.	--	--	--	--	
Blacktail Deer Creek near Mammoth, Yellowstone National Park	06189000	14.3	1937-45;1988-93.	--	1988-89.	1988-89.	--	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
<u>MISSOURI RIVER BASIN--continued</u>							
YELLOWSTONE RIVER BASIN--continued							
Gardner River:							
Lava Creek:							
Lupine Creek near Mammoth, Yellowstone National Park	06190000	4.67	1937-41.	--	--	--	--
Gardner River above Mammoth Springs outflow near Mammoth, Yellowstone National Park	06190370	--	--	--	1988-93.	--	--
Mammoth Springs outflow at Mammoth, Yellowstone National Park	06190415	--	--	--	1988-94.	--	--
Gardner River at Mammoth (Hotel) (near Mammoth Hot Springs), Yellowstone National Park	06190500	200	1922-38.	--	--	--	--
Gardner River Sinkhole Diversion near Mammoth, Yellowstone National Park	06190525	--	--	--	1988-92.	--	--
Hot River:							
Clematic Creek at Mammoth, Yellowstone National Park	06190530	--	--	--	1990-92.	--	--
Hot River at Mammoth, Yellowstone National Park.	06190540	--	1988-95.	--	1988-94.	--	--
Gardner River near Mammoth, Yellowstone National Park	06191000	202	1938-72;1984-	--	1984-85; 1987-93.	1988-93.	--
LaDuke (Corwin) Hot Springs near Corwin Springs, Mont.....	06191400	--	--	--	1987-94.	--	--
Yellowstone River at Corwin Springs (Horr), Mont.....	06191500	2,623	1889-1893;1910-	--	1988-92.	1985-92.	--
Clarks Fork Yellowstone River at Montana-Wyoming State line, near Cooke City, Mont	06205450	--	--	--	1975-77; 1990-	1975-77.	--
Clarks Fork Yellowstone River (Clarks Fork) above Squaw Creek, near Painter	06205500	194	1945-51.	--	--	--	--
Crandall Creek:							
Lodgepole Creek at mouth, near Painter	06205950	8.51	1989.	--	--	--	--
Clarks Fork Yellowstone River (Clarks Fork) below							
Crandall Creek, near Painter	06206000	446	1929-32;1949-57.	--	--	--	--
Sunlight Creek near Painter.....	06206500	135	1929-32;1945-71.	--	--	--	--

Footnotes at end of table.

WATER RESOURCES DATA - WYOMING, 1995

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DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
YELLOWSTONE RIVER BASIN--continued								
Clarks Fork Yellowstone River above Paint Creek, near Clark.....	06206600	--	--	--	1975-77.	1975-77.	--	
Clarks Fork Yellowstone River (Clarks Fork) near Clark.....	06207000	912	1918-24.	--	--	--	--	
Clarks Fork Yellowstone River (Clarks Fork) near Belfry (at Chance), Mont.....	06207500	1,154	1921-	--	1965-88.	1965;1971; 1984.	--	
Big Sand Coulee above State ditch, near Badger Basin	06207507	98.3	1973-77.	--	1977.	1973-77.	--	
Big Sand Coulee at Wyoming-Montana State line.....	06207510	134	1973-81.	--	1976-81.	1973-81.	--	
Silver Tip Creek near Belfry, Mont.....	06207540	88.0	1967-75.	--	--	--	--	
Wind River (head of Bighorn River) near Dubois	06218500	232	1945-92.	--	1947-50; 1953; 1965-86.	1970;1980.	1973-82.	
Wagon Gulch near Dubois	06218700	4.89	--	1961-84.	--	--	--	
Warm Spring Creek near Dubois.....	06219000	85.8	1911-12a.	--	1965.	--	--	
Horse Creek at Dubois	06219500	120	1910-12.	--	--	--	--	
Wind River at Dubois.....	06220000	486	1910-12.	--	1948-49.	--	--	
East (North) Fork Wind River near Dubois	06220500	427	1950-57;1975-	--	1975-86; 1990.	1975-86.	--	
Wind River above Red Creek, near Dubois	06220800	1,073	1990.-	--	1986-92.	--	--	
Red Creek near Dubois	06221000	--	1909a.	--	--	--	--	
Wind River tributary near Burris.....	06221200	4.71	--	1961-72.	--	--	--	
Dinwoody Creek above lakes, near Burris.....	06221400	88.2	1957-78;1988-	--	1988-92.	1970.	--	
Dinwoody Creek near Burris (Crowheart, Lenore).. ..	06221500	100	1909;1918-30; 1950-58.	--	--	--	--	
Wind River near Burris	06222000	1,236	1946-53.	--	--	--	--	
Dry Creek near Burris, (at Crowheart) (near Lenore)	06222500	53.7	1909a;1921-40; 1988-	--	1990.	--	--	
Dry Creek Canal at headgate, near Burris.....	06222510	--	1989-	--	--	1990.	--	
Crow Creek near Tipperary	06222700	30.2	1962-93.	--	1974-93.	--	--	
Meadow Creek near Lenore (near J. K. Ranch Post Office)	06223000	41.7	1909a;1921-23.	--	--	--	--	
Willow Creek near Crowheart (at J. K. Ranch Post Office) (near Lenore)	06223500	55.4	1909;1921-23; 1925-40; 1988-	--	1990.	--	--	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
YELLOWSTONE RIVER BASIN--continued								
Wind River--continued								
Sand Draw near Crowheart	06223700	12.8	--	1961-77.	--	--	--	
Wind River above Bull Lake Creek, near Crowheart ...	06223750	--	--	--	1990-91.	1990-91.	--	
Wind River tributary No. 2 near Crowheart.....	06223800	3.16	--	1961-81.	--	--	--	
Bull Lake Creek above Bull Lake (Bull Lake Reservoir).....	06224000	187	1941-53;1966-	--	1974-	--	--	
Bull Lake (Bull Lake Reservoir) near Lenore.....	06224500	b210	1938-a	--	--	--	--	
Bull Lake Creek near Lenore	06225000	b213	1918-	--	1990.	--	--	
Wind River near Crowheart	06225500	1,891	1945-	--	1976;1978; 1987-92.	1970-82; 1990-92.	--	
Wyoming Canal near Lenore.....	06226000	--	1941-45;1949-82; 1988-	--	1988.	1974-82; 1988.	--	
Dry Creek:								
Little Dry Creek near Crowheart.....	06226200	10.5	--	1961-81.	--	--	--	
Dry Creek near Crowheart	06226300	97.9	--	1959; 1961-81.	--	--	--	
Pilot Canal:								
Pilot wasteway near Morton	06226500	--	1949-53.	--	--	--	--	
Pilot Canal near Morton	06227000	--	1949-53.	--	1977.	--	--	
Wyoming Canal below Pilot diversion, near Morton.	06227500	--	1949-53.	--	--	1975-82.	--	
Johnstown Ditch at Headworks, near Kinnear	06227596	--	1991-	--	--	--	--	
Wind River near Kinnear	06227600	2,194	1974-79;1991-	--	1985-92.	1990-92.	--	
LeClair Canal near Riverton	06227700	--	--	--	--	1976-77.	--	
Lefthand Ditch at Headworks, near Riverton.....	06227810	--	1991-	--	--	--	--	
Wind (Big Wind) River at (near) Riverton (near rapahoe Agency)	06228000	2,309	1906-8;1911-	--	1947-50; 1965-	1949-51; 1959-65; 1971;1977; 1985-	1973-78; 1986-	
South Fork Little Wind River above Washakie Reservoir, near Fort Washakie								
South Fork Little Wind River below Washakie Reservoir, near Fort Washakie	06228450	93.5	1988-	--	1990.	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
YELLOWSTONE RIVER BASIN--continued								
Wind River--continued								
(South Fork) Little Wind River near Fort Washakie..	06228500	117	1921-40.	--	--	--	--	
Ray Canal at headworks, near Fort Washakie	06228510	--	1989-	--	--	--	--	
North Fork Little Wind River near Fort Washakie..	06228800	112	1988-	--	1990.	--	--	
North Fork Little Wind River at Fort Washakie.....	06229000	128	1921-40.	--	--	--	--	
Little Wind River at Fort Washakie.....	06229500	249	1908-9.	--	--	--	--	
Sage Creek above Norkok Meadows Creek, near Fort Washakie	06229680	118	1990-95.	--	1990.	--	--	
Norkok Meadows Creek near Fort Washakie.....	06229700	15.4	--	1965-81.	--	--	--	
Sand Draw near Fort Washakie	06229800	99	--	1961-81.	--	--	--	
Trout Creek near Fort Washakie.....	06229900	16.1	1990-	1961-68; 1970-84.	1990.	--	--	
Trout Creek at Wind River	06230000	33.6	1909.	--	--	--	--	
Mill Creek above Ray Lake outlet canal, near Fort Washakie.....	06230190	15.8	1990-	--	1990.	--	--	
Ray Lake near outlet, near Fort Washakie.....	06230300	--	--	--	1960-70.	--	--	
Little Wind River near Arapahoe	06230500	618	1950-53.	--	1992.	--	1992.	
Little Wind River tributary near Hudson.....	06230800	2.98	--	1961-71.	--	--	--	
Little Wind River above Arapahoe (Agency)	06231000	660	1906-9;1911-18; 1979-	--	1966-92.	--	1973-77; 1989-92.	
Middle (Middle Fork) Popo Agie River (Popo Agie River) near Lander.....								
Middle Popo Agie River below The Sinks, near Lander.....	06231500	86.5	1911-12;1918-24.	--	--	--	--	
Baldwin Creek below Dickinson Creek, at Lander.....	06231600	87.5	1959-68.	1969-74.	--	1965.	--	
Little Dickinson Creek at Lander (formerly Baldwin Creek at Lander).....	06231930	--	--	--	1989-	1989-	--	
North Popo Agie River near Milford.....	06231950	--	--	--	1981.	--	1981.	
North (North Fork) Popo Agie River near Lander.....	06232000	98.4	1945-63.	--	1990.	--	--	
Popo Agie River at Hudson Siding, near Lander ...	06232500	134	1938-53.	--	--	--	--	
Little Popo Agie River near Atlantic City.....	06232600	--	--	--	1983-	--	1983-89.	
Little Popo Agie River near Lander	06232800	5.99	1957-73.	--	--	--	--	
Little Popo Agie River near Lander	06233000	125	1946-	--	--	--	--	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
YELLOWSTONE RIVER BASIN--continued								
Wind River--continued								
Little Wind River--continued								
Popo Agie River--continued								
Little Popo Agie River--continued								
Government Draw:								
Monument Draw at upper station, near Hudson.....	06233340	5.50	--	1965-72.	--	--	--	
Monument Draw at lower station, near Hudson.....	06233360	8.38	--	1965-84.	--	--	--	
Coal Mine Draw:								
Coal Mine Draw tributary near Hudson	06233440	63	--	1965-72.	--	--	--	
Little Popo Agie River at Hudson	06233500	384	1907-9;1911-17; 1938-53.	--	--	--	--	
Popo Agie River at Hudson.....	06233600	--	--	--	1966-69; 1984.	--	--	
Popo Agie River near Arapahoe.....	06233900	796	1979-95.	--	1980-92.	--	1983; 1989.	
Little Wind (Popo Agie) River below Arapahoe (Agency)								
Beaver Creek near Lander.....	06234000	1,464	1906-9;1911-18.	--	--	--	--	
South Fork Hall Creek near Lander.....	06234500	113	1938-41.	--	--	--	--	
South Fork Hall Creek near Lander.....	06234700	3.88	--	1960-72.	--	--	--	
Big Sand Draw:								
Bobcat Draw near Sand Draw	06234800	2.89	--	1969; 1971-81.	--	--	--	
Beaver Creek near Arapahoe.....	06235000	354	1950-53.	--	1951; 1967-81; 1985-92.	1989-92.	--	
Little Wind River (Popo Agie River) near Riverton..	06235500	1,904	1941-	--	1953-54; 1965-	1959-65; 1971; 1989-93.	1987-	
Haymaker Creek near Riverton.....	06235700	9.52	--	1961-64; 1966-73.	--	--	--	
Kirby Draw near Riverton.....	06236000	129	1951-53.	1961-84.	--	--	--	
Wind River above Boysen Reservoir, near Shoshoni...	06236100	4,390	1990-	--	1973-93.	1991-	1974-89.	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
YELLOWSTONE RIVER BASIN--continued								
Wind River--continued								
Muskrat Creek:								
Lower Fraser diversion reservoir (on Fraser Draw)	06236500	27.4	1953-67c.	--	--	--	--	
Mahoney Reservoir (on Mahoney Draw).....	06237000	9.82	1952-57d.	--	--	--	--	
Conant Creek:								
Horseshoe Creek:								
Signor Reservoir (on Signor Draw).....	06237500	7.15	1952-60d.	--	--	--	--	
Rongis Reservoir (on Logan Draw)	06238000	37.0	1954-60d;1961-70c.	--	--	--	--	
Rongis Reservoir Canal	06238500	--	1953-67c.	--	--	--	--	
Dry Cheyenne Creek:								
West Fork Dry Cheyenne Creek at upper station, near Riverton	06238760	.69	--	1965-84.	--	--	--	
West Fork Dry Cheyenne Creek tributary near Riverton		1.85	--	1965-72.	--	--	--	
West Fork Dry Cheyenne Creek near Riverton...	06238790	3.52	--	1965-70.	--	--	--	
Muskrat Creek near Shoshoni	06239000	733	1950-73.	--	--	1950;1961; 1964; 1967-68; 1971-73.	--	
Maverick Springs Draw (head of Fivemile Creek):								
Coal Draw:								
Reservoir No. 9 (on Paintrock Draw)	06239500	.64	1953-60d.	--	--	--	--	
Reservoir No. 8	06240000	1.00	1953-60d.	--	--	--	--	
Reservoir No. 7	06240500	4.57	1952-56d.	--	--	--	--	
Reservoir No. 10	06241000	.13	1954-60d.	--	--	--	--	
Reservoir No. 6	06241500	5.07	1954-57d.	--	--	--	--	
Reservoir No. 5	06242000	5.14	1954-60d.	--	--	--	--	
Reservoir No. 4	06242500	5.77	1954-57d.	--	--	--	--	
Reservoir No. 3	06243000	5.84	1952-57d.	--	--	--	--	
Reservoir No. 1	06243500	5.91	1954-57d.	--	--	--	--	
Fivemile Creek Reservoir.....	06244000	72.8	1956-70c.	--	--	--	--	
Lower Teapot Reservoir (on Teapot Draw)	06244200	13.5	1954-65c.	--	--	--	--	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>MISSOURI RIVER BASIN--continued</u>								
YELLOWSTONE RIVER BASIN--continued								
Wind River--continued								
Fivemile Creek above Wyoming Canal, near Pavillion	06244500	118	1949-75;1988-	--	1949-51; 1969; 1974-75; 1987-92.	1949-51; 1960-61; 1964-68; 1970-75; 1989-92.	--	
Fivemile Creek near Pavillion.....	06245000	118	1948-49.	--	--	--	--	
Powerline wasteway near Pavillion.....	06245500	--	1949-50.	--	--	1950.	--	
Pavillion drain near Pavillion	06246000	--	1948-50.	--	1988.	1949-50; 1988.	--	
Ocean drain at Ocean Lake outlet, near Pavillion..	06246500	--	1948-53;1978-83.	--	1950-51; 1978-83; 1986; 1988.	1950-51.	--	
Ocean drain near Midvale	06246800	--	1979-82.	--	--	1979-82.	--	
Ocean drain near Pavillion	06247000	--	1948-53.	--	--	1949-50.	--	
Dudley wasteway near Pavillion	06247500	--	1949-50.	--	--	--	--	
Kellett drain near Pavillion.....	06248000	--	1948-50.	--	--	1950.	--	
Dewey drain near Pavillion	06248500	--	1948-50.	--	--	--	--	
Fivemile 76 drain near Riverton.....	06249000	--	1949-50.	--	--	--	--	
Sand Gulch drain and wasteway near Riverton.....	06249500	--	1949-50.	--	--	--	--	
Fivemile Creek near Riverton	06250000	b356	1949-65.	--	1950-51.	1949-51; 1959-61; 1963-65.	--	
Lost Wells Butte drain near Riverton	06250500	--	1949-50.	--	--	--	--	
Coleman drain near Shoshoni.....	06251000	--	1948-50.	--	--	1950.	--	
Sand Gulch near Shoshoni.....	06251500	18.6	1948-53.	--	1988.	1949-50; 1988.	--	
Eagle drain near Shoshoni.....	06252000	--	1948-50.	--	--	--	--	
Lateral P-34.9 wasteway near Shoshoni.....	06252500	--	1949-50.	--	--	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
YELLOWSTONE RIVER BASIN--continued								
Wind River--continued								
Fivemile Creek near Shoshoni	06253000	b418	1941-42;1948-83; 1988-	--	1948-51; 1953; 1965-86; 1988.	1949-51; 1959-61; 1963-68; 1972; 1974-75; 1978-85; 1988.	--	
Lateral P-36.8 wasteway near Shoshoni.....	06253500	--	1949-50.	--	--	--	--	
Poison Creek:								
Graham Draw:								
East Fork Reservoir	06254000	.81	1949-60d.	--	--	--	--	
West Fork Reservoir	06254500	.38	1947-60d.	--	--	--	--	
Graham Reservoir.....	06255000	3.12	1947-60d.	--	--	--	--	
Dead Man Gulch:								
Dead Man Gulch tributary near Lysite	06255160	.54	--	1965-68; 1970-72.	--	--	--	
Dead Man Gulch near Lysite.....	06255190	4.11	--	1965-73.	--	--	--	
Dead Man Gulch near Moneta	06255200	4.46	--	1958-69.	--	1966.	--	
Poison Creek tributary near Shoshoni	06255300	.39	--	1959-81.	--	--	--	
Poison Creek near Shoshoni.....	06255500	500	1949-53;1955-56.	1961-68.	1951.	1949-51; 1964.	--	
Badwater Creek at Lybyer Ranch, near Lost Cabin ...	06256000	131	1948-68.	--	--	--	--	
Badwater Creek at Lost Cabin	06256500	166	1945-48.	--	--	--	--	
Alkali Creek:								
E-K Creek:								
E-K Creek tributary near Arminto	06256550	.14	--	1960-68.	--	--	--	
Red Creek near Arminto.....	06256600	7.15	--	1963-81.	--	1965.	--	
Badwater Creek at Lysite	06256650	415	1965-73.	--	--	1966-68; 1970-73.	--	
Badwater Creek tributary near Lysite.....	06256670	5.86	--	1966-73.	--	--	--	
Bridger Creek:								
South Bridger Creek near Lysite	06256700	10.0	--	1960-81.	--	--	--	

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>MISSOURI RIVER BASIN--continued</u>								
YELLOWSTONE RIVER BASIN--continued								
Wind River--continued								
Badwater Creek--continued								
Bridger Creek near Lysite.....	06256800	182	1965-73.	--	--	1966-68; 1970-73.	--	
Dry Creek near Bonneville.....	06256900	52.6	1965-81.	--	1976-81.	1966-68; 1970-81.	--	
Badwater Creek at Bonneville.....	06257000	808	1947-73.	--	--	1949-51; 1960-61; 1963-68; 1970-73.	--	
Muddy Creek:								
Holland Creek:								
Warm Springs Creek near Pavillion	06257200	5.44	--	1961-69.	--	--	--	
Shotgun Creek:								
Shotgun Creek tributary near Pavillion.....	06257300	2.57	--	1961-81.	--	--	--	
Muddy Creek near Pavillion	06257500	267	1949-73.	--	1949-51; 1988-92.	1949-51; 1961; 1964-68; 1970-72.	--	
Muddy Creek near Shoshoni	06258000	332	1949-68; 1972-83.	--	1953; 1982-84; 1986; 1988.	1949-51; 1960-61; 1964-68; 1982-85; 1988.	--	
Cottonwood Creek drain near Shoshoni.....	06258010	--	--	--	--	1979-82.	--	
Birdseye Creek near Shoshoni	06258400	13.2	--	1959-72.	--	--	--	
Cottonwood (Dry Cottonwood) Creek near Bonneville	06258500	165	1949-53.	--	1949-50; 1976.	--	--	
Boysen Reservoir	06258900	7,700	1951-a	--	--	--	--	
Wind River below Boysen Reservoir.....	06259000	7,701	1951-	--	1953-54; 1956; 1960-92.	1979-86.	1973-87.	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>MISSOURI RIVER BASIN--continued</u>								
<u>YELLOWSTONE RIVER BASIN--continued</u>								
Bighorn River at (near) Thermopolis.....	06259500	8,020	1900-5;1910-53.	--	1949-51; 1953-54; 1969-70.	1949-53.	--	
South Fork Owl Creek near Anchor.....	06260000	85.5	1932; 1939-43; 1959-85; 1991-95.	--	1974-85.	1965; 1977-78.	1977-78.	
Middle Fork Owl Creek above Anchor Reservoir .	06260200	33.6	1959-65.	--	--	--	--	
Anchor Reservoir	06260300	131	1960-a	--	--	--	--	
South Fork Owl Creek below Anchor Reservoir	06260400	131	1959-	--	1974-86.	--	--	
South Fork Owl Creek above Curtis Ranch, near Thermopolis	06260500	144	1943-59.	--	--	--	--	
South Fork Owl Creek at Curtis Ranch, near Thermopolis	06261000	149	1931-32;1938-43.	--	--	--	--	
South Fork Owl Creek near Thermopolis (Owl Creek near Embar).....	06261500	180	1921-22;1929-32.	--	--	--	--	
North Fork Owl Creek near Anchor.....	06262000	54.8	1941-62.	--	--	--	--	
North Fork Owl Creek above Basin Ranch (below Cup Creek), near Anchor.....	06262300	e61	1962-75;1991-95.	--	--	--	--	
North Fork Owl Creek at Crann Ranch, near Thermopolis.....	06262500	94.2	1938-39.	--	--	--	--	
North Fork Owl Creek near Thermopolis	06263000	102	1930-32.	--	--	--	--	
Mud Creek near Thermopolis.....	06263500	101	1938-39.	--	--	--	--	
Owl Creek near Thermopolis	06264000	478	1910-17;1931-32; 1938-69.	--	1976.	1965.	1975.	
Owl Creek near Lucerne	06264500	509	1932-33;1938-53.	--	--	--	--	
Bighorn River at Lucerne.....	06264700	--	--	--	1966-	1990-92.	1978-	
Kirby Creek near Lucerne	06265000	199	1941-45.	--	--	--	--	
Sand Draw near Thermopolis.....	06265200	6.33	--	1960-81.	--	--	--	
Cottonwood Creek at High Island Ranch (at county bridge), near Hamilton Dome	06265337	81.4	1993-	--	1977-78.	1977-78.	1977-78.	
Cottonwood Creek at State Highway 120, near Hamilton Dome.....	06265410	--	--	--	1977-78.	1977-78.	1977-78.	
Grass Creek above Little Grass Creek, near Grass Creek	06265435	--	--	--	1977-78.	1977-78.	1977-78.	
Grass Creek near mouth, near Hamilton Dome	06265492	--	--	--	1977-78.	1977-78.	1977-78.	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>MISSOURI RIVER BASIN--continued</u>								
YELLOWSTONE RIVER BASIN--continued								
Bighorn River--continued								
Cottonwood Creek at Winchester.....	06265500	416	1941-49;1977-78.	--	1977-78.	1965-66; 1977-78.	1977-78.	
Tie Down Gulch near Worland.....	06265600	1.78	--	1961-84.	--	--	--	
Gooseberry Creek at Dickie	06265800	95	1957-78.	--	1977-78.	1977-78.	1977-78.	
Gooseberry Creek near Grass Creek	06266000	142	1945-57.	--	--	--	--	
Gillies Draw:								
Gillies Draw tributary near Grass Creek	06266320	1.30	--	1965-73.	--	--	--	
Gooseberry Creek at State Highway 431, near Grass Creek	06266450	--	1977-78.	--	1977-78.	1977-78.	1977-78.	
Murphy Draw near Grass Creek.....	06266460	2.32	--	1965-81.	--	--	--	
Gooseberry Creek near Dickie	06266500	289	1938-41.	--	1983.	--	--	
Gooseberry Creek at Neiber (Pulliam).....	06267000	361	1941-53.	--	--	1965-66.	--	
Bighorn River at Neiber	06267050	--	--	--	1965-69; 1976.	--	--	
Nowater Creek:								
East Fork Nowater Creek:								
North Prong East Fork Nowater Creek near Worland.....	06267260	3.77	--	1964-84.	--	--	--	
North Prong East Fork Nowater Creek tributary near Worland	06267270	2.11	--	1965-73.	--	--	--	
Denver Jake Reservoir (on unnamed tributary of East Fork)	06267300	--	1958-67f.	--	--	--	--	
East Fork Nowater Creek near Colter	06267400	149	1971-91.	--	1977-81.	1977-81.	--	
Fifteenmile Creek:.....								
Red Spires Reservoir (on Rock Waterhole Creek)	06267500	5.24	1954-59d;1960-67c.	--	--	--	--	
Middle Fork Fifteenmile Creek near Worland	06267900	--	--	--	1978-82.	1978-82.	1978-82.	
Big Gin Reservoir (on unnamed tributary).....	06268000	.94	1954-59d;1960-67c.	--	--	--	--	

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DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>MISSOURI RIVER BASIN--continued</u>								
YELLOWSTONE RIVER BASIN--continued								
Bighorn River--continued								
Fifteenmile Creek near Worland	06268500	518	1951-72;1978-86.	1973-78.	1965; 1978-81; 1983-86; 1989-92.	1949-51; 1959-61; 1963-68; 1970-72; 1978-86; 1989-92.	1978-81.	
Bighorn River at Worland	06268600	10,810	1965-69.	--	1964-86.	1965-68.		
Slick Creek near Worland.....	06268640	--	--	--	1981-86.	--	--	
Bighorn River near Manderson.....	06269000	11,020	1949-53;1955-56.	--	1950-51; 1966-71.	1949-51.	--	
Bighorn River at Manderson.....	06269500	11,048	1941-49.	--	1976.	--	--	
Nowood River:								
Spring Creek near Ten Sleep	06269700	57.9	--	1961-74.	--	1967.	--	
Nowood River (Creek) tributary near Ten Sleep....	06269750	.42	--	1960-81.	--	--	--	
Nowood River (Creek) near Ten Sleep	06270000	803	1938-43;1950-55; 1972-92.	--	1967-86.	1971-82.	--	
Tensleep Creek:								
Leigh Creek near Ten Sleep.....	06270200	2.54	--	1961-74.	--	--	--	
Canyon Creek:								
Canyon Creek tributary near Ten Sleep	06270300	.52	--	1961-74.	--	--	--	
Canyon Creek below Cooks Canyon, near Ten Sleep	06270450	72	1969-71.	--	1969-71.	1969-71.	--	
Canyon Creek near Ten Sleep	06270500	86.1	1939-44.	--	--	--	--	
Tensleep Creek near Ten Sleep.....	06271000	247	1910-12;1914-24; 1943-72.	--	1967.	--	--	
Brokenback Creek near Ten Sleep	06271200	55.0	--	1961-70.	--	--	--	
Paintrock Creek below Lake Solitude	06271500	16.0	1946-53.	--	--	--	--	
Paintrock Creek at Longview ranger station, near Hyattville	06272000	79.9	1911-12a.	--	--	--	--	
Paintrock Creek near Hyattville	06272500	164	1920-27;1941-53.	--	1951.	--	--	
Medicine Lodge Creek near Hyattville	06273000	86.8	1942-73.	--	1951;1968.	--	--	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
YELLOWSTONE RIVER BASIN--continued								
Bighorn River--continued								
Nowood River--continued								
Paint Rock Creek near mouth (near Bonanza), below Hyattville	06273500	376	1910-13;1915-22.	--	1951-53; 1967-84.	--	--	
Nowood River (Creek) at Bonanza	06274000	1,730	1910-28.	--	--	--	--	
Sand Creek:								
East Fork Sand Creek near Worland.....	06274100	19.1	--	1960-71.	--	--	--	
Nowood River tributary No. 2 near Basin.....	06274190	1.51	--	1965-84.	--	--	--	
Nowood River tributary No. 2 near Manderson.....	06274200	1.59	--	1961-71.	1978.	1967.	--	
Nowood River at Manderson	06274220	e2,000	--	--	1965-86.	1950; 1965-67.	--	
Elk Creek near Basin.....	06274250	96.9	--	1959-81.	--	1967.	--	
Bighorn River at Basin.....	06274300	13,223	1983-	--	1983-	1989-92.	1983-	
Greybull River near Pitchfork	06274500	282	1946-49;1951-71.	--	--	--	--	
Wood River near Kirwin	06274800	7.66	1970-75.	--	--	1975.	--	
Wood River at Kirwin	06274810	11.4	1970-78.	--	--	1975.	--	
Wood River at Sunshine	06275000	e194	1945-92.	--	--	1975.	--	
Wood River near Meeteetse.....	06275500	211	1910-12;1914-17; 1929-49.	--	--	--	--	
Greybull River near Meeteetse.....	06276000	659	1910-12;1915-16;1920.	--	--	--	--	
Greybull River at Meeteetse.....	06276500	681	1897;1903;1920-	--	--	1975.	--	
Bench Canal near Burlington	06277000	--	1930-38.	--	--	--	--	
Greybull River near Basin.....	06277500	1,115	1930-73.	--	1951-53; 1965-92.	1950; 1965-66; 1972; 1989-92.	--	
Dry Creek:								
Twentyfour Mile Creek near Emblem.....	06277700	12.8	--	1960-81.	--	--	--	
Dry Creek tributary near Emblem	06277750	.65	--	1960-68; 1970-81.	--	--	--	
Dry Creek near Greybull	06277950	432	1979-81.	--	1979-81.	1979-80.	1979-81.	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>MISSOURI RIVER BASIN--continued</u>								
YELLOWSTONE RIVER BASIN--continued								
Bighorn River--continued								
Dry Creek at Greybull	06278000	433	1951-53;1955-60.	--	1950-51; 1957-60; 1965; 1979-80.	1949-51; 1959-60; 1979-80.	1979-80.	
Shell Creek above Shell (Creek) Reservoir.....	06278300	23.1	1956-	--	--	--	--	
Granite Creek near Shell Creek ranger station, near Shell (formerly Granite Creek near Shell ranger station, near Shell).....	06278400	11.1	--	1961-74.	--	--	--	
Shell Creek near Shell	06278500	145	1940-	--	1951;1976; 1982.	1967.	--	
Shell Creek at Shell	06279000	256	1911-23.	--	--	--	1973-74.	
Red Gulch near Shell.....	06279020	47.8	--	1967; 1970-81.	--	--	--	
Shell Creek at Porter Gulch, near Greybull.....	06279050	--	--	--	1983-89.	--	1989-90.	
Shell Creek near Greybull	06279090	e560	--	--	1951; 1965-86.	1965-67.	1973-78.	
Bighorn River at Kane	06279500	15,765	1928-	--	1947-53; 1955-57; 1960-	1949-51; 1959-61; 1964; 1969-92.	1972-81; 1984-89.	
Willow Creek near Kane	06279700	14.0	--	1961-75.	--	--	--	
North Fork Shoshone River:								
Jones Creek at mouth, near Pahaska.....	06279790	24.8	1989-93.	--	1989-93.	1989-93.	--	
Crow Creek at mouth, near Pahaska.....	06279795	19.1	1989-93.	--	1989-93.	1989-93.	--	
North Fork Shoshone River at Pahaska.....	06279800	108	1989-90.	--	--	--	--	
Middle Creek at East Entrance, Yellowstone National Park								
National Park	06279850	32.6	1981-84.	--	1968-70.	--	--	
North Fork Shoshone River at Wapiti	06279940	669	1990-	--	1989-90.	--	1989-90.	
Trout Creek near Wapiti	06279950	49.4	--	1961-74.	--	--	--	
North Fork Shoshone River near Wapiti	06280000	775	1921-26;1979-89.	--	1981-86.	--	--	
South Fork Shoshone River near Valley.....	06280300	297	1956-	--	1984.	1958-64.	--	
South Fork Shoshone River (Shoshone River) near Ishawooa.....	06280500	541	1915-24.	--	--	--	--	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>MISSOURI RIVER BASIN--continued</u>								
YELLOWSTONE RIVER BASIN--continued								
Bighorn River--continued								
Shoshone River--continued								
South Fork Shoshone River (Shoshone River) above Buffalo Bill Reservoir (at Marquette).	06281000	585	1903;1905-8; 1921-26; 1973-	--	1982-92.	--	--	
Diamond Creek near mouth, near Cody	06281400	7.34	1980-92.	--	--	--	--	
Buffalo Bill (Shoshone) Reservoir near Cody	06281500	1,498	1909-	--	--	--	--	
Shoshone River above Demaris Springs, near Cody..	06281700	--	--	--	1987-	1989.	1989.	
Shoshone River below Buffalo Bill (Shoshone) Reservoir	06282000	1,538	1921-	--	1947-49; 1964-86.	--	1973-78.	
Shoshone River at (near) Cody	06282500	1,603	1902-9.	--	--	--	--	
Cottonwood Creek:								
Cottonwood Creek tributary near Cody.....	06282700	.76	--	1961-73.	--	--	--	
Shoshone River above Dry Creek, near Cody.....	06282900	--	--	--	1974-89.	--	1974-89.	
Shoshone River at Corbett Dam.....	06283000	1,793	1908-25.	--	--	--	--	
Garland Canal (Corbett Tunnel) at Corbett Dam ...	06283500	--	1909-20;1922-26.	--	--	--	--	
Shoshone River above Willwood Dam, near Willwood.....	06283800	1,830	1979-82.	--	--	1979-82.	--	
Shoshone River at Willwood Dam	06284000	1,833	1925-26.	--	--	--	--	
Willwood Canal near Ralston.....	06284005	--	--	--	--	1981-83.	--	
Shoshone River below Willwood Dam, near Ralston	06284010	--	--	--	--	1972; 1981-83.	--	
Shoshone River at Willwood.....	06284200	1,980	1974-79.	--	1976.	--	--	
Roan Wash near Garland	06284380	--	--	--	1985-92.	--	--	
Shoshone River near Garland.....	06284400	2,036	1958-79.	--	1958-59; 1967-71; 1974-92.	--	--	
Bitter Creek below sewage lagoon, near Powell	06284450	--	--	--	1981-92.	--	1981-89.	
Bitter Creek near Garland.....	06284500	80.5	1951-53;1958-61; 1969-87.	--	1949-53; 1958-60; 1969-	1950-51.	1973-78; 1984-89; 1993-	
Whistle Creek near Garland	06284800	101	1958-60;1968-87.	--	1959-60; 1969-87.	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
YELLOWSTONE RIVER BASIN--continued								
Bighorn River--continued								
Shoshone River at Byron.....	06285000	2,345	1929-66.	--	1964-66; 1976.	1950.	--	
Shoshone River near Lovell	06285100	e2,350	1966-	--	1966-	1971-82; 1990-92.	1978-81; 1987-89.	
Sage Creek at Sidon Canal, near Deaver.....	06285400	341	1958-60;1968-87.	--	1958-60; 1969-87.	--	--	
Sage Creek near Lovell	06285500	381	1951-60.	--	1965;1967; 1969-71.	--	--	
Shoshone River at Lovell	06286000	2,832	1897-98;1899a.	--	--	--	--	
Shoshone River at Kane	06286200	2,989	1957-58.	--	1958-68; 1976-89.	1959-61; 1964.	1982-89.	
Bighorn River near Lovell	06286250	e18,900	1964-66.	--	--	--	--	
Crooked Creek:								
Big Coulee near Lovell.....	06286258	30.1	1970-78.	--	--	1970-74; 1976-77.	--	
Crooked Creek near Lovell	06286260	e119	1964-67.	--	--	--	--	
Porcupine Creek near Lovell.....	06286270	e135	1964-67.	--	--	--	--	
Bighorn Lake (Yellowtail Reservoir) near St. Xavier, Mont.....	06286400	19,626	1965-	--	--	--	--	
Bighorn River near St. Xavier, Mont	06287000	19,667	1934-	--	1966-81.	--	--	
Little Bighorn River below Dayton Gulch, near Burgess Junction	06288600	15.9	1982-87.	--	--	--	--	
Dry Fork below Lick Creek, near Burgess Junction.....	06288700	54.1	1982-87;1992-95.	--	--	--	--	
Little Bighorn River near Parkman	06288960	137	1969-72.	--	--	--	--	
Elkhorn Creek above Fuller Ranch Ditch, near Parkman.....	06288975	4.58	1982-87.	--	--	--	--	
West Fork Little Bighorn River near Parkman.....	06288990	38.6	1969-72;1982-87.	--	--	--	--	
Little Bighorn (Little Horn) River at State line, near Wyola, Mont	06289000	193	1939-	--	1992-	1992-	1992-	
Powers Upper Ditch (Spring Creek):								
Red Canyon Creek near Parkman.....	06289100	3.20	1983-90.	--	--	--	--	
Little Bighorn (Little Horn) River near Wyola, Mont	06289500	251	1911-24.	--	--	--	--	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
6MISSOURI RIVER BASIN--continued								
YELLOWSTONE RIVER BASIN--continued								
Bighorn River--continued								
Little Bighorn River--continued								
Pass Creek:								
West Pass Creek near Parkman.....	06289600	15.4	1982-	--	--	--	--	
East Pass Creek near Parkman.....	06289800	11.6	1974-76.	--	--	--	--	
East Pass Creek near Dayton.....	06289820	21.7	1982-	--	--	--	--	
Twin Creek near Parkman	06289870	27.0	1982-90.	--	--	--	--	
Pass Creek near Wyola, Mont	06290000	111	1935-56.	--	--	--	--	
Little Bighorn (Little Horn) River below Pass Creek, near Wyola, Mont.....	06290500	428	1939-75.	--	--	--	--	
Lodge Grass Creek at State line, near Wyola, Mont	06291200	16.7	1982-89.	--	--	--	--	
North Tongue River:								
Hideout Creek near Dayton.....	06296400	2.89	--	1961-67.	--	--	--	
North (Fork) Tongue River near Dayton.....	06296500	32.4	1945-57.	--	--	--	--	
Big Willow Creek near Dayton	06296700	7.08	--	1961-73.	--	--	--	
South (Fork) Tongue River near Dayton.....	06297000	85	1945-72.	--	--	--	--	
Tongue River at Tongue Canyon Campground, near Dayton.....	06297480	202	1974-79.	--	--	--	--	
Highland ditch near Dayton	06297500	--	1919-23;1940-	--	--	--	--	
Tongue River near Dayton	06298000	204	1918-29;1940-	--	1966-81; 1987-88.	--	1973-77; 1980.	
Little Tongue River at Steamboat Point, near Dayton	06298480	11.4	1974-76.	--	--	--	--	
Little Tongue River above South Fork Little Tongue River, near Dayton.	06298490	14.1	1975-76.	--	--	--	--	
Little Tongue River near Dayton.....	06298500	25.1	1951-53;1955-74.	--	1971.	--	--	
Tongue River at Dayton	06299000	259	1903.	--	--	--	--	
Wolf Creek below Alden Creek, near Wolf.....	06299480	32.8	1974-76.	--	--	--	--	
Wolf Creek above Red Canyon Creek, at Wolf.....	06299490	33.8	1974-76.	--	--	--	--	
Wolf Creek at Wolf.....	06299500	37.8	1945-	--	1985.	--	--	
Slater Creek near Monarch.....	06299900	18.0	--	1967-81.	--	1967.	--	
Tongue River at Monarch.....	06299980	--	--	--	1974-80; 1982-83.	1976-77.	1976-80; 1982-83.	
Tongue River at Carneyville	06300000	495	1911-13;1915-17.	--	--	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
MISSOURI RIVER BASIN--continued							
YELLOWSTONE RIVER BASIN--continued							
Tongue River--continued							
East Fork Big Goose (East Goose) Creek near Big Horn	06300500	20.1	1953-	--	--	--	--
Cross Creek above Big Horn Reservoir, near Big Horn.....	06300900	9.29	1960-71.	--	--	--	--
Cross Creek near Big Horn.....	06301000	9.63	1953-60.	--	--	--	--
West Fork Big Goose Creek:							
Coney Creek above Twin Lakes, near Big Horn.	06301480	3.41	1990-93.	--	--	--	--
Lost Lake Creek near Big Horn.....	06301485	2.14	1990-93.	--	--	--	--
Snail Creek near Big Horn.....	06301490	1.36	1990-93.	--	--	--	--
Coney Creek below Twin Lakes, near Big Horn..	06301495	8.07	1990-93.	--	--	--	--
West Fork Big Goose (West Goose) Creek near Big Horn	06301500	24.4	1953-	--	--	--	--
Big Goose (Goose) Creek near Sheridan	06302000	120	1929-	--	1987-89.	1989-92.	1989-
Goose Creek at Sheridan	06302500	182	1909-13;1915-16.	--	--	--	--
Little Goose Creek:							
Willow Creek near Big Horn.....	06303000	2.99	1953-55.	--	--	--	--
Little Goose Creek in canyon, near Big Horn	06303500	51.6	1941-	--	--	--	--
Little Goose Creek near Big Horn.....	06304000	71	1919-21.	--	--	--	--
Little Goose Creek at Sheridan.....	06304500	159	1896-97;1911-12.	--	1979-	1990-92.	1979-
Goose (Big Goose) Creek below Little Goose Creek, at Sheridan	06305000	341	1895;1896-97.	--	--	--	--
Goose Creek below Sheridan	06305500	392	1941-84.	--	1959-64; 1967-	1971-82; 1989-92.	1973-
Goose Creek near Acme.....	06305700	411	1984-	--	1983-89.	--	1983-87.
Tongue River near Acme.....	06306000	894	1938-57.	--	--	--	--
Squirrel Creek near Decker, Mont.....	06306100	33.6	1975-85.	--	1975-85.	--	--
Prairie Dog Creek near Acme	06306250	358	1970-79.	--	1976-92.	1976-77.	1976-77.
Tongue River at State line, near Decker, Mont	06306300	1,477	1960-	--	1965-	1976-77; 1979-83.	1973-89.
Deer Creek near Decker, Mont.....	06306800	38.3	--	--	1975-77.	1975-76.	--
Middle Fork Powder River near Barnum.....	06309200	45.2	1961-	--	--	--	--
Buffalo Creek above North Fork Buffalo Creek, near Arminto	06309260	8.80	1974-79.	--	--	--	--

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
YELLOWSTONE RIVER BASIN--continued								
Middle Fork Powder River--continued								
Buffalo Creek--continued								
North Fork Buffalo Creek near Arminto	06309270	8.10	1974-79.	--	--	--	--	
Buffalo Creek below North Fork Buffalo Creek, near Arminto	06309280	18.6	1974-79.	--	--	--	--	
Beaver Creek below Bayer Creek, near Barnum	06309450	10.9	1974-89.	--	--	--	--	
Beaver Creek above White Panther Ditch, near Barnum.....	06309460	24.2	1974-89.	--	--	--	--	
Middle Fork Powder River above Kaycee	06309500	e450	1949-70;1984-92.	--	1949; 1952-54; 1984-92.	1966-68; 1970.	1984-92.	
Red Fork near Barnum	06310000	e142	1929-32;1950-53.	--	1988-89.	--	--	
Middle Fork Powder River at Kaycee.....	06310500	647	1911-12;1929-32.	--	1977.	--	--	
North Fork Powder River near Hazelton.....	06311000	24.5	1946-	--	--	--	--	
North Fork Powder River below Bull Creek, near Hazelton	06311060	32.3	1974-92.	--	1970-71.	--	--	
North Fork Powder River below Pass Creek, near Mayoworth.....	06311400	100	1973-	--	--	--	--	
North Fork Powder River near Mayoworth	06311500	106	1940-73.	--	1971.	--	--	
North Fork Powder River near Kaycee	06312000	244	1911;1929-32.	--	1988-89.	--	--	
Powder River near Kaycee.....	06312500	e980	1933-35;1938-71.	--	1946; 1949-50; 1952-54; 1968-91.	--	1973-89.	
South Fork Powder River near Powder River	06312700	262	--	1961-84.	--	--	--	
Cottonwood Creek:								
North Fork Cottonwood Creek:								
Sanchez Creek above reservoir, near Arminto	06312795	5.53	--	1970-81.	--	--	--	
Sanchez Creek near Arminto	06312800	5.95	--	1961-76.	--	--	--	
Dead Horse Creek:								
Dead Horse Creek tributary near Midwest.....	06312910	1.53	--	1965-72.	--	--	--	
Dead Horse Creek tributary No. 2 near Midwest	06312920	1.34	--	1965-72.	--	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
YELLOWSTONE RIVER BASIN--continued								
Powder River--continued								
South Fork Powder River near Kaycee	06313000	e1,150	1911;1938-40; 1950-69; 1978-80; 1983-84.	--	1949; 1951-53; 1968-81; 1983-89; 1992.	1950-51; 1983-84; 1986-87.	1975-80..	
Salt Creek:								
Bobcat Creek near Edgerton.....	06313020	8.29	--	1965-81.	--	--	--	
Coopers Draw near Edgerton	06313030	1.11	--	1965-73.	--	--	--	
Seven L Creek near Edgerton.....	06313040	7.10	--	1965-73.	--	--	--	
Teapot Creek:								
East Teapot Creek near Edgerton	06313050	5.44	--	1965-72; 1974-79.	--	--	--	
Coal Draw near Midwest.....	06313100	11.4	--	1961-84.	--	--	--	
Dugout Creek:								
Dugout Creek tributary near Midwest.....	06313180	b.8	1975-83.	1965-74.	--	1982-83.	--	
Hay Draw near Midwest.....	06313200	1.60	--	1958-70.	--	--	--	
Salt Creek near Sussex	06313400	769	1976-81;1982-	--	1967-	1975-81; 1983-87.	1976-77; 1980.	
North Spring Draw near Sussex	06313450	5.21	--	1980-81.	--	--	--	
Powder River at Sussex.....	06313500	e3,090	1938-40;1950-57; 1977-84; 1985-	--	1966-68; 1976-	1967; 1976-87.	1976-81.	
Bugher Draw near Buffalo	06313600	4.57	--	1961-71.	--	--	--	
Van Houten Draw near Buffalo	06313630	10.8	--	1971-81.	--	--	--	
Powder River above Dead Horse Creek, near Buffalo (formerly 441252106090801).....	06313665	--	--	--	1978; 1988-89.	--	--	
Dead Horse Creek near Buffalo	06313700	151	1971-90.	1958-71.	1976; 1980-81; 1989.	1976.	1976; 1978	
North Fork Crazy Woman Creek:								
Caribou Creek near Buffalo.....	06313900	5.08	--	1961-74.	--	--	--	
North Fork Crazy Woman Creek below Pole Creek, near Buffalo.....	06313950	43.4	1973-84.	--	--	--	--	

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
YELLOWSTONE RIVER BASIN--continued								
Powder River--continued								
North Fork Crazy Woman Creek near Buffalo.....	06314000	44.9	1942-49;1973-84.	--	--	--	--	
North Fork Crazy Woman Creek below Spring Draw, near Buffalo.....	06314500	51.7	1949-79.	--	--	--	--	
North Fork Crazy Woman Creek near Greub.....	06315000	174	1950-68.	--	--	1966-68.	1978.	
Middle Fork Crazy Woman Creek:								
Poison Creek below Tetley Spring, near Mayoworth.....	06315480	19.0	1974-76.	--	--	--	--	
Poison Creek near Mayoworth	06315490	24.7	1974-76.	--	--	--	--	
Middle Fork Crazy Woman Creek near Greub.....	06315500	82.7	1942-72.	--	--	--	1983.	
Crazy Woman Creek near Buffalo	06316000	464	1929-32.	--	--	--	1976-81	
Crazy Woman Creek at upper station, near Arvada ...	06316400	e945	1963-70;1977-81.	--	1949-50; 1966-	1950; 1966-67; 1976-81; 1990-	1976-81.	
Headgate Draw at upper station, near Buffalo	06316480	1.1	--	1965-73.	--	--	--	
Headgate Draw at lower station, near Buffalo	06316490	e2.6	--	1965-73.	--	--	--	
Crazy Woman Creek near Arvada.....	06316500	956	1939-43;1950-64.	--	--	--	--	
Coal Draw near Buffalo (formerly Powder River tributary near Buffalo)	06316700	1.64	--	1965-84.	--	--	--	
Powder River at Arvada	06317000	e6,050	1919-	--	1946; 1948-53; 1955; 1967-	1968; 1970-79; 1983-84; 1986-87.	1972-82.	
Spotted Horse Creek:								
Spotted Horse Creek tributary near Spotted Horse	06317050	3.98	--	1961-81.	--	--	--	
Powder River near Arvada	06317100	e6,580	1915-19.	--	--	--	--	
Clear Creek:								
Sourdough Creek near Buffalo	06317300	5.80	1985-90.	--	--	--	--	
Little Sourdough Creek near Buffalo	06317340	4.53	1985-88.	--	--	--	--	
North Fork Clear Creek near Buffalo	06317500	29.0	1949-68.	--	--	--	--	
Clear Creek at Camp Comfort, near Buffalo.....	06318000	e110	1911-12a.	--	--	--	--	
Clear Creek near (at) Buffalo	06318500	120	1894;1896-99; 1917-27; 1938-92.	--	1977-78.	1977-78.	1976-78.	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>MISSOURI RIVER BASIN--continued</u>								
YELLOWSTONE RIVER BASIN--continued								
Powder River--continued								
Clear Creek at Buffalo.....	06319000	e130	1902a;1903-4; 1911-12.	--	--	--	--	
Bull Creek:								
Sand Creek near Buffalo.....	06319100	10.8	--	1969-84.	--	--	--	
South Rock Creek (head of Rock Creek) at forest boundary, near Buffalo	06319470	40.3	1974-76.	--	--	--	--	
South Rock Creek above Red Canyon, near Buffalo.....	06319480	40.5	1974-76.	--	--	--	--	
South Fork Rock Creek near Buffalo	06319500	43.8	1941-43;1950-53.	--	--	--	--	
Rock Creek near Buffalo	06320000	60.0	1941-	--	1978.	--	--	
Clear Creek below Rock Creek, near Buffalo	06320200	322	1971-81.	--	1975-91.	1975-81.	1976-89.	
Clear Creek near Kumer Draw, near Buffalo	06320210	--	--	--	1993-	--	1993-	
Clear Creek at Ucross.....	06320400	409	1976-81.	--	1975-81; 1983-92.	1975-81.	1976; 1978.	
South Piney Creek (head of Piney Creek) at Willow Park.....	06320500	33.6	1945-57;1959-	--	--	--	--	
South Piney Creek near Story.....	06321000	69.4	1951-80.	--	--	--	--	
Mead-Coffeen ditch above fish hatchery, near Story.....	06321020	--	1974-79.	--	--	--	--	
Mead-Coffeen ditch below fish hatchery, near Story.....	06321040	--	1974-79.	--	--	--	--	
South Piney Creek below Mead-Coffeen ditch, near Story.....	06321100	69.5	1974-79.	--	--	--	--	
North Piney Creek near Story.....	06321500	36.8	1951-82.	--	1976-77.	1976-78.	1976.	
Spring Creek near Story	06321800	--	1974-79.	--	--	--	--	
Cruetz ditch near Story.....	06322000	--	1903a.	--	--	--	--	
Prairie Dog ditch near Story.....	06322500	--	1903a.	--	--	--	--	
Piney Creek at Kearney	06323000	118	1902-6;1910-17; 1919-23; 1940-	--	1975-78.	1976-78.	1975-76; 1978.	
Piney Creek at Ucross	06323500	267	1917-23;1950-82.	--	1975-92.	1976-78.	1975-80.	
Clear Creek near Arvada	06324000	e1,110	1915-19;1928-29; 1939-82.	--	1949-54; 1966-92.	1966-67; 1975-83.	1975-80.	

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
YELLOWSTONE RIVER BASIN--continued								
Powder River at Moorhead, Mont.....	06324500	8,088	1929-72;1974-	--	1950-53; 1955-57; 1968-72; 1974-92.	1974-	--	
Little Powder River:								
Little Powder River tributary near Gillette.....	06324800	.81	--	1960-81.	--	--	--	
Rawhide Creek:								
Box Draw:								
Box Draw tributary near Gillette	06324810	.5	--	1965-72.	--	--	--	
Rawhide Creek tributary near Gillette	06324820	2.6	--	1965-72.	--	--	--	
Little Powder River below Corral Creek, near								
Weston.....	06324890	204	1975;1977-83.	--	1975-83.	1975-83.	1976-82.	
Cedar Draw near Gillette (formerly Little Powder River tributary No. 2 near Gillette)	06324900	3.45	--	1959-81.	--	--	--	
Cow Creek:								
Cow Creek tributary near Weston.....	06324910	.72	--	1971-84.	--	--	--	
Little Powder River near Weston	06324925	540	1977-81.	--	1969; 1975-81.	1975-81.	1975-81.	
Little Powder River above Dry Creek, near Weston..	06324970	1,235	1972-	--	1975-82; 1985-	1975-82.	1975-82.	
Little Powder River near Wyoming-Montana State								
line.....	06324985	--	--	--	1969-70.	--	--	
LITTLE MISSOURI RIVER BASIN								
Little Missouri River near New Haven.....	06332800	--	--	--	1976-77.	--	1976-77.	
CHEYENNE RIVER BASIN								
Antelope Creek (head of Cheyenne River):.....								
Wind Creek:								
Reservoir No. 13.....	06361500	.60	1951-54g.	--	--	--	--	
Sand Creek:								
Reservoir No. 35A.....	06362000	.61	1952-54g.	--	--	--	--	
Reservoir No. 13A.....	06363000	.28	1952-54g.	--	--	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
CHEYENNE RIVER BASIN--continued								
Antelope Creek--continued								
Porcupine Creek:								
Reservoir No. 10B.....	06363500	0.20	1952-54.	--	--	--	--	
Porcupine Creek near Turnercrest.....	06363700	31.5	--	1959-76.	--	--	--	
Reservoir No. 10A.....	06364000	.43	1952-54g.	--	--	--	--	
Reservoir No. 11.....	06364500	2.46	1951-54g.	--	--	--	--	
Antelope Creek near Teckla.....	06364700	959	1977-81.	--	1977-81.	1977-81.	1977-81.	
Dry Fork:								
Reservoir No. 40.....	06365000	.71	1951-54g.	--	--	--	--	
Bear Creek:								
Reservoir No. 36.....	06365200	.48	1951-54g.	--	--	--	--	
Dry Fork Cheyenne River near Bill	06365300	128	1976-81;1985-87.	--	1977-81; 1987.	1977-81; 1987.	1979.	
Reservoir No. 33A.....	06365500	.44	1952-54g.	--	--	--	--	
Cheyenne River near Dull Center.....	06365900	1,527	1976-81;1985-87.	--	1975-81; 1987.	1975-81; 1987.	1978-81.	
Reservoir No. 14	06366000	10.9	1950-51g;1953-54g.	--	--	--	--	
Reservoir No. 31	06366500	.35	1951-52g.	--	--	--	--	
Reservoir No. 30	06367000	1.31	1951-52g.	--	--	--	--	
Reservoir No. 32	06367500	.59	1951-52g.	--	--	--	--	
Reservoir No. 26	06368000	1.51	1951-52g.	--	--	--	--	
Reservoir No. 22	06368500	.02	1951g.	--	--	--	--	
Reservoir No. 28	06369000	.68	1951-52g.	--	--	--	--	
Reservoir No. 27	06369500	1.09	1951-52g.	--	--	--	--	
Reservoir No. 24	06370000	.52	1951-52g.	--	--	--	--	
Reservoir No. 23	06370500	2.67	1951-52g.	--	--	--	--	
Reservoir No. 21	06371000	.31	1951-52g.	--	--	--	--	
Reservoir No. 18	06371500	.30	1951-52g.	--	--	--	--	
Reservoir No. 17	06372000	.06	1951-54g.	--	--	--	--	
Reservoir No. 25	06372500	.56	1951-54g.	--	--	--	--	
Reservoir No. 20	06373000	.11	1951-52g.	--	--	--	--	
Reservoir No. 19	06373500	.92	1951-54g.	--	--	--	--	
Reservoir No. 16	06374000	.18	1951-52g.	--	--	--	--	
Reservoir No. 15	06374500	9.58	1951-54g.	--	--	--	--	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
CHEYENNE RIVER BASIN--continued								
Cheyenne River--continued								
Black Thunder Creek:								
Little Thunder Creek:								
Reservoir No. 10.....	06375000	0.66	1951-54g.	--	--	--	--	
Reservoir No. 12.....	06375500	.28	1951-52g.	--	--	--	--	
Little Thunder Creek near Hampshire.....	06375600	234	1977-81;1987-	--	1977-81; 1988; 1990-	1977-81; 1988; 1990-	1977-81.	
Reservoir No. 7A.....	06376000	.23	1952-54g.	--	--	--	--	
Black Thunder Creek near Hampshire.....	06376300	e535	1972-90.	--	1980-81.	1980-81; 1986-87; 1989.	1980-81.	
Lodgepole Creek:								
Reservoir No. 9.....	06376500	.94	1951-54g.	--	--	--	--	
Reservoir No. 7.....	06377000	2.68	1951-54g.	--	--	--	--	
Reservoir No. 8.....	06377500	.10	1951-54g.	--	--	--	--	
Reservoir No. 7B.....	06378000	1.40	1952-54g.	--	--	--	--	
Lodgepole Creek near Hampshire.....	06378300	354	1977-81.	--	1978-81.	1978-81.	1978-81.	
Boggy Creek:								
Reservoir No. 35.....	06378500	7.52	1950-54g.	--	--	--	--	
Lance Creek:								
Lance Creek tributary near Lance Creek.....	06378640	1.20	--	1965-73.	--	--	--	
Lightning Creek:								
Reservoir No. 55.....	06379000	.05	1953-54g.	--	--	--	--	
Box Creek:								
Reservoir No. 41.....	06379500	1.27	1951-54g.	--	--	--	--	
Box Creek near Bill.....	06379600	112	1956-58.	1959; 1961-81.	--	--	--	
Walker Creek:								
Reservoir No. 56.....	06380000	.70	1953-54g.	--	--	--	--	
Reservoir No. 57.....	06380500	.21	1953-54g.	--	--	--	--	
Dry Creek:								
Reservoir No. 36A.....	06381000	.41	1953-54g.	--	--	--	--	
Twentymile Creek:								
Reservoir No. 58.....	06381500	.07	1953-54g.	--	--	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
<u>MISSOURI RIVER BASIN--continued</u>							
CHEYENNE RIVER BASIN--continued							
Lance Creek--continued							
Lightning Creek--continued							
Twentymile Creek--continued							
Reservoir No. 42 (on Twentymile Draw).....	06382000	0.33	1951-54g.	--	--	--	--
Pritchard Draw near Lance Creek	06382200	5.10	--	1964-81.	--	--	--
Cow Creek:							
Reservoir No. 34.....	06382500	.34	1951-54g.	--	--	--	--
Reservoir No. 37.....	06383000	2.47	1951-54g.	--	--	--	--
Reservoir No. 38.....	06383500	1.70	1951-54g.	--	--	--	--
Dogie Creek:							
Reservoir No. 33.....	06384000	.73	1951-54g.	--	--	--	--
Crazy Woman Creek:							
Reservoir No. 43.....	06384500	1.26	1951-54g.	--	--	--	--
Reservoir No. 43A	06385000	.18	1953-54g.	--	--	--	--
Old Woman Creek:							
Sage Creek:							
Cottonwood Creek at Hat Creek	06385400	14.5	--	1972-79.	--	--	--
Reservoir No. 44	06385500	.92	1951-54g.	--	--	--	--
Lance Creek (at Spencer) near Riverview	06386000	e2,070	1948-54;1956-83.	--	1975-83.	1971; 1975-83.	1978.
Reservoir No. 39.....	06386200	.52	1951-54g.	--	--	--	--
Cheyenne River at Riverview	06386400	e5,160	--	--	1980-92.	1981-82.	1980-82.
(South Fork) Cheyenne River near Spencer	06386500	e5,270	1948-74.	--	1969-70; 1975-80.	1971-74.	1975-80.
Beaver Creek:							
Turner Creek near Osage.....	06387500	47.8	--	1959-84.	--	--	--
Reservoir No. 3.....	06388000	.25	1951-54g.	--	--	--	--
Stockade Beaver Creek:							
Reservoir No. 1	06388200	.08	1951-54g.	--	--	--	--
Skull Creek:							
Oil Creek:							
Reservoir No. 4	06388500	.11	1951-54g.	--	--	--	--

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>MISSOURI RIVER BASIN--continued</u>								
CHEYENNE RIVER BASIN--continued								
Cheyenne River--continued								
Beaver Creek--continued								
Blacktail Creek:								
Blacktail Creek tributary near Newcastle.....	06388800	0.25	--	1960-81.	--	--	--	--
Reservoir No. 6	06389000	3.80	1951-54g.	--	--	--	--	--
Reservoir No. 6A	06389500	.44	1952-54g.	--	--	--	--	--
Reservoir No. 6C.....	06390000	.16	1954g.	--	--	--	--	--
Reservoir No. 6B.....	06390500	1.52	1953-54g.	--	--	--	--	--
Reservoir No. 5A	06391500	1.39	1953-54g.	--	--	--	--	--
Reservoir No. 2	06392000	6.06	1951-53g.	--	--	--	--	--
Reservoir No. 5	06392500	.54	1951-54g.	--	--	--	--	--
Beaver Creek at Mallo Camp, near Four Corners.....	06392900	10.3	1974-82;1991-	--	--	--	--	--
Stockade Beaver Creek near Newcastle.....	06392950	107	1974-82;1991-	--	--	--	--	--
Redbird Canyon:								
Gillette Canyon:								
Reservoir No. 45, S. Dak.....	06393000	1.02	1951-54.	--	--	--	--	--
Beaver Creek near Newcastle	06394000	e1,320	1943;1945-	--	1946-47; 1949-53; 1967-86.	1977-78.	1978.	1978.
Beaver Creek near Burdock (Edgemont), S. Dak								
Reservoir No. 39A.....	06394700	.12	1953-54g.	--	--	--	--	--
Reservoir No. 46, S. Dak.....	06394800	.30	1951-54g.	--	--	--	--	--
Cheyenne River at Edgemont, S. Dak	06395000	7,143	1903-6;1928-33; 1946-	--	--	--	--	--
Cottonwood Creek:								
Reservoir No. 47B	06395500	.05	1952-54g.	--	--	--	--	--
Reservoir No. 47A, S. Dak.....	06396000	.05	1952-54g.	--	--	--	--	--
Belle Fourche River:								
Belle Fourche River tributary near Turnercrest.....	06425700	.35	--	1961-71.	--	--	--	--
Belle Fourche River below Rattlesnake Creek, near Piney	06425720	495	1975-83.	--	1975-83.	1976-79; 1981-83.	1976-77; 1980-82.	1976-77; 1980-82.
Coal Creek near Piney.....	06425750	71.8	1980-83.	--	1981-83.	1981-83.	1981.	1981.
Belle Fourche River above Dry Creek, near Piney	06425780	594	1975-83.	--	1975-83.	1976-83.	1976-77; 1980-82.	1976-77; 1980-82.

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
CHEYENNE RIVER BASIN--continued								
Belle Fourche River--continued								
Caballo Creek near Gillette	06425800	122	--	1959-69.	--	--	--	
Caballo Creek at mouth, near Piney.....	06425900	260	1977-83.	--	1977-80; 1982-83.	1977-80; 1982-83.	1978-80.	
Raven Creek near Moorcroft.....	06425950	76	1977-83.	--	1978-80.	1977-79.	1978-79.	
Belle Fourche River near Moorcroft	06426000	e1,380	1923-33.	--	--	--	--	
Donkey Creek:								
Stonepile Creek:								
Burlington Lake Ditch at Gillette	06426095	--	1988-90.	--	--	--	--	
Stonepile Creek at Gillette.....	06426100	11.2	1988-92.	--	1988-92.	1988-92.	1988-92.	
Donkey Creek tributary above reservoir, near Gillette	06426195	.2	--	1970-84.	--	--	--	
Donkey Creek tributary near Gillette	06426200	.28	--	1960-76.	--	--	--	
Donkey Creek near Moorcroft	06426400	246	1977-81.	--	1977-89.	1977-81.	1977-81; 1983-89.	
Belle Fourche River below Moorcroft	06426500	1,690	1943-70;1975-83; 1985-87; 1990-	--	1975-93; 1995-	1976-83; 1986-87; 1990-93.	1975-93; 1995-	
Keyhole Reservoir near Moorcroft	06427000	1,953	1952-	--	--	--	--	
Belle Fourche River below Keyhole Reservoir	06427500	1,954	1951-95.	--	1969; 1984-90.	--	--	
Inyan Kara Creek near Upton.....	06427700	96.5	--	1959-84.	1968;1974.	--	--	
Belle Fourche River at Devils Tower.....	06427850	--	--	--	1967-92.	--	1973-77.	
Barlow Creek near Devils Tower	06427880	21.9	--	1971-76.	--	--	--	
Blacktail Creek near Hulett	06427900	42.3	--	1962-69.	--	--	--	
Belle Fourche River at Hulett	06428000	e2,800	1929-32;1938-51.	--	--	--	--	
Belle Fourche River below Hulett.....	06428050	--	--	--	1981-	--	1981-89; 1993-	
Belle Fourche River tributary No. 2 near Hulett.....	06428100	10.2	--	1962-84.	--	--	--	
Belle Fourche River near Alva.....	06428200	2,948	1988-	--	--	--	--	
Belle Fourche River at Wyoming-South Dakota State line	06428500	e3,280	1946-	--	1960; 1965-88.	1960.	1970-81.	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
CHEYENNE RIVER BASIN--continued								
Belle Fourche River--continued								
Redwater Creek:								
Rocky Ford Creek:								
Ogden Creek near Sundance.....	06429300	8.42	--	1962-81.	--	--	--	
Sundance Creek:								
Sundance Creek tributary above forest boundary, at Sundance.....	06429375	.76	--	1969-72.	--	--	--	
Sundance Creek tributary at Sundance.....	06429380	1.40	--	1965-68.	--	--	--	
Sundance Creek tributary near Sundance.....	06429400	1.80	--	1962-71.	--	--	--	
Cold Springs Creek (head of Sand Creek) at								
Buckhorn	06429500	19.0	1974-82;1991-	--	--	--	--	
Sand Creek above Ranch A, near Beulah.....	06429898	--	--	--	1987-91.	--	--	
Sand Creek at Ranch A, near Beulah	06429900	260	1974-76.	--	1987-91.	--	--	
Sand Creek near Ranch A, near Beulah	06429905	267	1976-83;1991-	--	1981-83.	--	1981-83.	
Murray ditch above headgate, at Wyoming-South								
Dakota State line.....	06429997	--	1987-	--	--	--	--	
Murray ditch at Wyoming-South Dakota State line	06430000	--	1954-87.	--	--	--	--	
Redwater Creek at Wyoming-South Dakota State								
line.....	06430500	471	1929-31;1936-37; 1954-	--	1969-70.	1971-83.	--	
NIOBRARA RIVER BASIN								
Niobrara River at Wyoming-Nebraska State line	06454000	e450	1955-94.	--	--	--	--	
PLATTE RIVER BASIN								
North Platte River near Northgate (Pinkhampton), Colo .								
Douglas Creek above Keystone	06620000	1,431	1904;1915-	--	1965-86.	1971-74.	1973-82.	
Douglas Creek near Keystone	06620400	22.1	1955-65.	--	--	--	--	
Douglas Creek near Keystone	06620500	25.6	1912;1914-16.	--	--	--	--	
Douglas Creek near Foxpark.....	06621000	120	1946-72.	--	--	--	--	
Mullen Creek:								
North Fork Mullen (Mullen) Creek near French.....	06621500	--	1911a.	--	--	--	--	
Big Creek at Big Creek ranger station (near								
Downington, Big Creek).....	06622000	106	1911a;1912-24.	--	--	--	--	
French Creek near French	06622500	59.6	1909-24.	--	--	--	--	
North Brush Creek near Saratoga	06622700	37.4	1960-	--	--	--	--	
South Brush Creek near Saratoga.....	06622900	22.8	1960-74;1976-77; 1979-	--	--	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
PLATTE RIVER BASIN--continued								
North Platte River--continued								
Brush Creek at upper station, near Saratoga (near Saratoga)	06623000	77.0	1941-47.	--	--	--	--	
Brush Creek at lower station, near Saratoga (near Saratoga)	06623500	107	1909-15.	--	--	--	--	
Encampment River above East Fork, near Encampment	06623750	--	--	--	1991-92.	1991-92	1991-92.	
East Fork Encampment River at mouth, near Encampment	06623790	--	--	--	1991-92.	1991-92.	1991-92.	
Encampment River above Hog Park Creek, near Encampment	06623800	72.7	1964-	--	1964-	1970-	1973-	
Encampment River near Encampment	06623900	105	1956-64.	--	--	--	--	
Encampment River above Encampment	06624000	207	1940-44.	--	--	--	--	
Encampment River (Grand Encampment Creek) at Encampment (Perym's ranch)	06624500	211	1900;1909-24; 1928-32.	--	--	--	--	
Encampment River at mouth, near Encampment	06625000	265	1940-	--	1965-89.	--	1973-78; 1982-83; 1987-89.	
Cow Creek near Saratoga.....	06625500	58.9	1911-12.	--	--	--	--	
North Platte River at Highway 130, near Saratoga (formerly 412117106433201)	06625650	--	--	--	1977; 1984-91.	--	--	
Spring Creek:								
North Spring Creek near Saratoga	06626000	24.5	1913-15.	--	--	--	--	
Spring Creek near Saratoga.....	06626500	114	1911-12.	--	--	--	--	
North Platte River at Saratoga	06627000	2,840	1903-6;1909-70.	--	1967.	--	--	
Jack Creek at Jack Creek Park, near Saratoga	06627300	12.2	1966-68.	--	--	--	--	
Jack Creek at Matheson Ranch, near Saratoga	06627500	41.2	1913-24.	--	--	--	--	
Jack Creek below Little Jack (Willow) Creek, near Saratoga.....	06627600	98.2	1956-58;1966-68.	--	--	--	--	
Jack Creek above Coyote Draw, near Saratoga.....	06627800	109	1989-	--	--	--	--	
Jack Creek at Blydenburgh's ranch, near Saratoga	06628000	113	1912-14.	--	--	--	--	
Jack Creek near Saratoga	06628500	138	1911-12.	--	--	--	--	
North Platte River near Saratoga	06628550	--	--	--	1971-74.	--	--	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
PLATTE RIVER BASIN--continued								
North Platte River--continued								
Sage Creek below Adams Reservoir, near Rawlins	06628700	24.3	1966-68.	--	--	--	--	
Sage Creek near Rawlins	06628750	52.0	1966-68.	--	--	--	--	
Sage Creek near Saratoga.....	06628800	263	1973-81.	--	1972-81.	1972-81.	--	
Pass Creek near Elk Mountain	06628900	91.5	1957-	--	1983.	--	--	
Pass Creek near Saratoga	06629000	106	1929-32.	--	--	--	--	
Rattlesnake Creek near Walcott	06629100	13.9	--	1962-74.	1983.	--	--	
Coal Bank Draw:								
Coal Bank Draw tributary near Walcott	06629150	3.65	--	1962-81.	--	--	--	
Coal Bank Draw tributary No. 2 near Walcott	06629200	2.41	--	1962-81.	--	--	--	
Pass Creek tributary near Walcott	06629300	.66	--	1963-67.	--	--	--	
Pass Creek near Walcott.....	06629500	230	1911.	--	--	--	--	
St. Mary Creek:								
St. Mary Creek tributary No. 2 near Hanna	06629600	3.90	--	1963-67.	--	--	--	
Kenny Creek near Hanna	06629650	.46	--	1963-67.	--	--	--	
St. Mary Creek tributary near Sinclair	06629700	.46	--	1959-71.	--	--	--	
Sugar Creek:								
Coal Creek near Rawlins.....	06629800	7.32	--	1959-81.	--	--	--	
Great Divide basin:								
Delaney Draw near Red Desert	06629850	32.8	--	1961-75.	--	--	--	
North Platte River above Seminole Reservoir, near								
Sinclair (Parco)	06630000	64,175	1939-	--	1960-	1974;1986-	1973-	
Big Ditch:								
Big Ditch tributary near Hanna	06630200	7.42	--	1959-81.	--	--	--	
Big Ditch near Coyote Springs	06630300	110	1975-81.	--	1976; 1978-81.	1976; 1978-81.	--	
North Ditch near Coyote Springs	06630330	22.6	1976-81.	--	1976; 1978-81.	1976;1980.	--	
Medicine Bow River at Bow Ranger Station, near Elk								
Mountain	06630440	28.7	1972-75.	--	--	--	--	
East Fork Medicine Bow River near Elk Mountain...	06630480	17.8	1972-75.	--	--	--	--	
Medicine Bow River near Elk Mountain	06630500	65.6	1946-47.	--	--	--	--	
Mill Creek near Elk Mountain	06630600	25.8	--	1963-65.	--	--	--	
Bear Creek near Elk Mountain.....	06630800	8.93	--	1962-74.	--	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
<u>MISSOURI RIVER BASIN--continued</u>							
PLATTE RIVER BASIN--continued							
North Platte River--continued							
Medicine Bow River near Medicine Bow.....	06631000	190	1911-17;1919-24.	--	--	--	--
Wagonhound Creek near Elk Mountain	06631100	25.6	--	1962-74.	--	--	--
Third Sand Creek:							
Third Sand Creek tributary near Medicine Bow	06631140	.78	--	1965-73.	--	--	--
Third Sand Creek near Medicine Bow	06631150	10.8	--	1965-81.	--	--	--
Foote Creek near Arlington.....	06631200	5.49	--	1962-69.	--	--	--
Foote Creek tributary No. 2 near Arlington	06631230	1.43	--	1962-65.	--	--	--
Foote Creek tributary near Arlington	06631260	2.10	--	1962-70.	--	--	--
Medicine Bow River above Rock Creek, near							
Medicine Bow.....	06631500	b436	1951-63.	--	--	--	--
Rock Creek:							
Deep Creek near Arlington.....	06632000	3.13	1914-18.	--	--	--	--
Carlson Creek ditch near Arlington.....	06632050	--	1992-95.	--	--	--	--
Carlson Creek ditch above Wagonhound Creek, near Arlington.....	06632055	--	1994-95.	--	--	--	--
Rock Creek above King Canyon Canal, near							
Arlington.....	06632400	62.9	1965-	--	1967.	--	--
Rock Creek at (near) Arlington	06632500	64.5	1910-18;1939-65.	--	--	--	--
Threemile Creek near Arlington.....	06632600	6.31	--	1962-74.	--	--	--
Onemile Creek near Arlington	06632700	3.59	--	1962-74.	--	--	--
Rock Creek near Rock River.....	06633000	187	1911-12;1928-33.	--	--	--	--
Rock Creek below Rock River.....	06633500	218	1940-42;1951-68.	--	1965-68.	--	--
Medicine Bow River at Medicine Bow.....	06634000	1,030	1901.	--	--	--	--
Little Medicine Bow River at Heward Ranch.....	06634030	--	--	--	1972-73.	--	--
Little Medicine Bow River near Shirley Basin	06634100	--	--	--	1972-73.	--	--
Sheep Creek near Marshall.....	06634200	61.0	--	1961-81.	--	--	--
Sheep Creek near Medicine Bow	06634300	174	--	1961-81.	--	--	--
Muddy Creek near Shirley.....	06634500	76.6	1915-16.	--	--	--	--
Little Medicine Bow River near Medicine Bow	06634600	963	1973-84.	--	1965-84.	1971-82.	--
Little Medicine Bow River at Boles Spring, near							
Medicine Bow.....	06634620	969	1973-	--	1985-89.	--	--
Medicine Bow River tributary near Hanna	06634910	3.01	--	1965-84.	--	--	--

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
PLATTE RIVER BASIN--continued								
North Platte River--continued								
Medicine Bow River--continued								
Willow Springs Draw:								
Willow Springs Draw tributary near Hanna.....	06634950	1.98	--	1965-73.	--	--	--	
Hanna Draw near Hanna	06634990	21.6	1975-81.	--	1975-81.	1975-81.	--	
Medicine Bow River above Seminole Reservoir, near Hanna	06635000	b2,338	1939-	--	1965-93.	1971-82; 1987-89.	--	
Seminole Reservoir near Leo.....	06635500	b7,230	1939-	--	1972-78h.	--	1975-78h.	
North Platte River above Pathfinder Reservoir	06636000	b7,241	1913-39;1950-59.	--	1969-82; 1987-89.	1987-89.		
Sage Creek above Pathfinder Reservoir	06636500	190	1915-25.	--	--	--	--	
Deweese Creek near Alcova	06637000	16.4	1918;1923-24.	--	--	--	--	
Sand Creek near Alcova.....	06637500	51.0	1915-24.	--	--	--	--	
Sweetwater River near South Pass City	06637550	177	1958-73.	1974-81.	1975-78.	1975-78.	--	
Willow Creek near Atlantic City.....	06637600	3.08	1957-58.	--	--	--	--	
Willow Creek near South Pass City	06637700	9.21	1957-58.	--	--	--	--	
Sweetwater River above Rock Creek, near Atlantic City.....	06637740	--	--	--	--	1981.	--	
Rock Creek above Rock Creek Reservoir.....	06637750	e9.2	1962-95.	--	1978.	1975.	--	
Rock Creek near South Pass City.....	06637800	9.87	1957-60.	--	--	--	--	
Rock Creek near Atlantic City	06637850	14.6	1957.	--	--	--	--	
Slate Creek near Atlantic City.....	06637900	5.92	1957-73.	--	--	--	--	
Rock Creek at Atlantic City	06637910	21.3	1957-76.	--	1957-59; 1966-67; 1969-71; 1976.	1964-66; 1968; 1971-72; 1976.	--	
Rock Creek at Oregon Trail Crossing, near Atlantic City.....	06637950	--	--	--	--	1981.	--	
Sweetwater River near Atlantic City.....	06638000	438	1946-51.	--	--	--	--	
Sweetwater River near Sweetwater Station	06638090	849	1973-92.	--	--	--	--	
Sweetwater River at Sweetwater Station, near Lander .	06638100	889	--	1965-73.	--	--	--	
Crooks Creek:								
West Fork Crooks Creek near Jeffrey City.....	06638300	11.6	--	1961-81.	1976-78.	1976-78.	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
PLATTE RIVER BASIN--continued								
North Platte River--continued								
Sweetwater River--continued								
Muddy Creek:								
Coal Creek near Muddy Gap.....	06638350	6.08	--	1961-81.	--	--	--	
Cherry Creek near Lamont.....	06638400	29.4	--	1960-70.	--	--	--	
Sweetwater River at Devils Gate, near Splitrock (near Splitrock)	06638500	2,290	1902-3.	--	--	--	--	
Sweetwater River near Alcova.....	06639000	2,327	1913-24;1938-	--	1964-90.	1975-82. 1973-82.	--	
Horse Creek at Highway 220, near Alcova.....	06639480	--	--	--	1982-90.	--	--	
Horse Creek near Alcova	06639500	117	1915-20;1923-24.	--	--	--	--	
Canyon Creek near Alcova	06640000	97.1	1915-24.	--	--	--	--	
Pathfinder Reservoir near Alcova.....	06640500	b10,711	1909-	--	1975-77h.	--	1975-77h.	
North Platte River below Pathfinder Reservoir (at Pathfinder).....	06641000	b14,671	1905-60.	--	--	--	--	
Bear Springs Creek near Alcova	06641400	9.33	--	1960-84.	--	--	--	
Alcova Reservoir at Alcova.....	06641500	b10,766	1938-	--	1975-76h.	--	1975-76h.	
North Platte River at Alcova.....	06642000	b10,812	1904-5;1934-	--	1965-88.	1976; 1980-86; 1988.	1973-87.	
Bates Creek near Freeland	06642500	118	1940-41;1945-51.	--	1981-86.	--	--	
Stinking Creek near Alcova	06642650	91.8	1983-84.	--	1983-84.	1983-84.	--	
Lawn Creek near Alcova.....	06642700	11.5	--	1961-84.	--	--	--	
Stinking Creek tributary near Alcova.....	06642730	1.34	--	1961-71.	--	--	--	
Stinking Creek near Alcova	06642760	117	--	1961-81.	--	--	--	
Bates Creek near Alcova (Casper)	06643000	393	1916-24; 1935-61.	--	1965; 1968-86; 1988.	1988.	--	
Coal Creek near Goose Egg	06643300	5.39	--	1960-84.	--	--	--	
North Platte River near Goose Egg (Casper).....	06643500	b11,423	1917-19;1924;1947; 1950-60; 1983-86; 1988-95.	--	1957-60. 1985-87; 1989.	1985-87.	1987.	
North Platte River near Goose Egg	06643510	--	--	--	1977-79; 1983-89.	1983;1988.	1977-79; 1982-87.	

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
PLATTE RIVER BASIN--continued								
North Platte River--continued								
Poison Spider Creek near Goose Egg	06644000	301	1950-56.	--	1965; 1967-70; 1979;1986; 1988.	1988.	--	
North Platte River at Mills.....	06644085	--	--	--	1970-89.	1988.	1974-77; 1982-87.	
Casper Creek:								
Middle Fork Casper Creek near Bucknam	06644120	--	--	--	1967-75; 1988.	--	--	
South Fork Casper Creek:								
Clarks Gulch near Natrona	06644200	2.64	--	1961-72.	--	--	--	
Casper Creek at Casper	06644500	668	1946-56.	--	1965; 1967-88.	1988.	1974; 1982-87.	
North Platte River at Casper	06644550	--	--	--	1971-92.	1971-82.	1982-87.	
Reefs Draw:								
Reefs Draw tributary near Casper	06644700	.47	--	1959-71.	--	--	--	
Sand Spring Creek:								
McKenzie Draw:								
McKenzie Draw tributary near Casper	06644840	2.02	--	1965-81.	--	--	--	
North Platte River below (at) Casper.....	06645000	b12,574	1929-59.	--	1949-53; 1957-59; 1967-	1971;1988.	1970-89.	
Smith Creek above Otter Creek, near Casper	06645150	9.91	1974-79;1987-	--	--	--	--	
Smith Creek at Otter Creek, near Casper	06645160	10.9	1974-79.	--	--	--	--	
Otter Creek at mouth, near Casper	06645164	6.50	1987-	--	--	--	--	
Smith Creek below Otter Creek, near Casper	06645166	18.5	1987-	--	--	--	--	
Beaver Creek above Pole Creek, near Casper.....	06645174	4.67	1987-	--	--	--	--	
Pole Creek near Casper	06645178	2.70	1987-	--	--	--	--	
North Platte River at Parkerton.....	06645500	b17,135	1919-24.	--	--	--	--	
Deer Creek in Canyon, near Glenrock	06646000	139	1946-51;1985-	--	1985-91.	1985-91.	1985-91.	
Little Deer Creek above East Cart Creek, near Glenrock.....								
	06646280	3.89	1974-76.	--	--	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
PLATTE RIVER BASIN--continued								
North Platte River--continued								
Deer Creek--continued								
Little Deer Creek below East Cart Creek, near Glenrock.....	06646300	7.48	1974-76.	--	--	--	--	
Deer Creek at Glenrock.....	06646500	212	1916-24;1928-33; 1935-61.	--	--	--	--	
Deer Creek below Millar wasteway, at Glenrock	06646600	213	1961-92.	--	1965; 1967-86.	--	--	
North Platte River below Deer Creek, near Glenrock	06646610	--	--	--	1979.	--	--	
Dry Creek:								
East Fork Dry Creek:								
East Fork Dry Creek tributary near Glenrock	06646700	2.60	--	1961-81.	--	--	--	
Sand Creek near Glenrock	06646780	79.9	1977-81.	--	1978-80.	1978-80.	1978-80.	
North Platte River near Glenrock	06646800	b13,538	1959-92.	--	1960-86.	1976.	--	
Running Dutchman Canal near Careyhurst.....	06647000	--	1935-50.	--	--	--	--	
North Platte River near Careyhurst.....	06647020	--	--	--	1969-76.	--	--	
Box Elder Creek at Boxelder	06647500	63.0	1946-51;1961-67; 1971-	--	--	--	--	
Box Elder Creek near Boxelder	06647800	136	1981-84.	--	--	--	--	
Box Elder Creek at Converse County Park, near Careyhurst.....	06647810	138	1981-84.	--	--	--	--	
Little Box Elder Creek near Careyhurst.....	06647890	7.18	1974-88.	--	--	--	--	
Little Box Elder Creek at Little Box Elder Cave, near Careyhurst	06647900	8.47	1974-88.	--	--	--	--	
Little Box Elder Spring near Careyhurst.....	06647910	--	1980-86.	--	1983.	--	--	
Cottonwood Creek near Careyhurst	06647920	2.33	1981-84.	--	--	--	--	
Box Elder Creek below Interstate 25, near Careyhurst.	06647990	--	--	--	1981-86.	--	--	
Box Elder Creek near Careyhurst	06648000	202	1911;1915-24; 1928-33; 1935-69.	--	1965.	--	--	
Douglas (Morton) Canal near Orpha.....	06648500	--	1935-51.	--	--	--	--	
Sage Creek:								
Frank Draw:								
Frank Draw tributary near Orpha	06648720	.79	--	1965-73.	--	--	--	
Sage Creek tributary near Orpha	06648780	1.38	--	1965-84.	--	--	--	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>MISSOURI RIVER BASIN--continued</u>								
PLATTE RIVER BASIN--continued								
North Platte River--continued								
La Prele Creek near Douglas.....	06649000	135	1919-92.	--	--	--	--	
La Prele Creek below La Prele Reservoir.....	06649200	152	1961-68.	--	1965.	--	--	
La Prele Creek near Orpha (Fetterman).....	06649500	177	1916;1918;1923-24; 1928-33; 1935-70.	--	1981-86.	--	--	
North Platte River at Orpha.....	06649520	--	--	--	1974-75.	--	--	
North Platte River tributary near Douglas.....	06649900	8.53	--	1961-81.	--	--	--	
North Platte River near (at) Douglas.....	06650000	b18,338	1891-94;1919-23; 1929-39; 1946-59.	--	--	--	--	
Wagonhound Creek near La Bonte.....	06650500	112	1916-24;1929-32; 1937-69.	--	1965;1979; 1981-86.	--	--	
La Bonte Creek:								
West Fork La Bonte Creek near La Bonte.....	06651000	20.6	1946-51.	--	1979.	--	--	
La Bonte Creek near La Bonte.....	06651500	287	1916-24;1928-33; 1935-69.	--	1965; 1981-86.	--	--	
Sand Creek near Orin.....	06651800	27.8	--	1955; 1961-84.	--	--	--	
North Platte River at Orin (Orin Junction) (McKinley) ...	06652000	b15,025	1895-99;1917-18; 1924; 1958-	--	1966-89.	1971-82.	1973-89.	
Shawnee Creek:								
Shawnee Creek tributary near Orin.....	06652200	.33	--	1961-76.	--	--	--	
Lost Creek:								
Watkins (Watson) Draw near Lost Springs.....	06652400	6.95	--	1960-84.	--	--	--	
Glendo Reservoir near Glendo.....	06652700	b15,545	1958-	--	1975-76h.	--	1975-76h.	
North Platte River below Glendo Reservoir.....	06652800	b15,548	1957-	--	1966-88.	--	1973-82.	
Horseshoe Creek near Esterbrook.....	06653000	45.5	1946-51.	--	--	--	--	
Horseshoe Creek near Binford.....	06653100	e110	1961-64.	--	--	--	--	
Horseshoe Creek near Cassa.....	06653300	195	1961-68;1988-	--	1965.	--	--	
Horseshoe Creek near Glendo.....	06653500	211	1916-18;1921-24; 1928-33; 1935-70; 1988-	--	--	--	--	
North Platte River near Cassa.....	06654000	b19,796	1946-57.	--	1953.	--	--	
Cottonwood Creek near Fletcher Park.....	06654500	51.1	1946-51.	--	--	--	--	
Cottonwood Creek below Dagley Creek, near Binford	06654510	54.0	1974-76.	--	--	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
PLATTE RIVER BASIN--continued								
North Platte River--continued								
Cottonwood Creek below Tunnel Outlet, near Binford	06654520	57.2	1974-76.	--	--	--	--	
Cottonwood Creek near Binford	06654550	61	1973-74.	--	--	--	--	
Cottonwood Creek at (near) Wendover.....	06655000	196	1916-24;1929-33; 1935-42;1946-55; 1973-74.	--	--	--	--	
Deadmans Gulch near Guernsey	06655360	.34	--	1965-72.	--	--	--	
Fish Canyon near Guernsey	06655380	1.06	--	1965-76.	--	--	--	
Black Canyon near Guernsey	06655400	.22	--	1965-70.	--	--	--	
Guernsey Reservoir near Guernsey	06655500	b16,224	1928-	--	1972-73.	--	--	
Hartville Canyon:								
Sparks Canyon near Hartville	06655750	.74	--	1965-72.	--	--	--	
North Platte River (North Platte River and Interstate Canal) below Guernsey Reservoir (near, at Guernsey) (at, above Whalen)	06656000	b16,237	1900-	--	1950-52; 1955-58; 1965-86.	1979.	1980-81.	
North Platte River near Guernsey	06656500	--	--	--	1981-83.	--	1981-83.	
North Platte River (at recorder station) below Whalen (below Whalen) diversion dam.....								
Laramie River near (at) Glendevy, Colo	06657000	b16,237	1909-	--	1970-76.	--	1974.	
Laramie River near (at) Glendevy, Colo	06657500	101	1904-5;1910-82.	--	--	--	--	
Laramie River near Jelm	06658500	294	1904-5;1911-71.	--	1965;1968.	--	--	
Laramie River at Woods Landing (Woods).....	06659000	392	1890-92;1895a; 1896-1911.	--	--	--	--	
Laramie River and Pioneer Canal near Woods	06659500	434	1912-24;1926-27; 1931-	--	--	--	--	
Sand Creek at Colorado-Wyoming State line	06659580	29.2	1968-	--	--	--	--	
Sand Creek near Tie Siding	06659600	39.9	1957-68.	--	--	--	--	
Laramie River at Laramie	06660000	b1,071	1933-72.	--	1968-70.	--	--	
Laramie River above Howell	06660070	--	--	--	1980-89.	--	1980-89.	
Laramie River at Howell	06660100	--	--	--	1974-80.	1974.	1974-80.	
Laramie River at Two Rivers	06660500	b1,224	1908-27;1932-72.	--	1966-92.	--	--	
Little Laramie River near Filmore (Hatton).....	06661000	157	1902-3;1911-26; 1933-	--	--	--	--	

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
PLATTE RIVER BASIN--continued								
North Platte River--continued								
Laramie River--continued								
Little Laramie River at Two Rivers (at Haley's ranch, near Laramie).....	06661500	b376	1903;1910-27;1933-72.	--	1965-87; 1990-92.	--	--	
Fourmile Creek near Centennial	06661530	7.34	--	1963-68.	--	--	--	
Onemile Creek near Centennial.....	06661550	6.12	--	1963-65.	--	--	--	
Fourmile Creek tributary near Centennial	06661570	.28	--	1963-71.	--	--	--	
Sevenmile Creek near Centennial	06661580	11.2	--	1962-84.	--	--	--	
Laramie River near Bosler	06661585	b1,790	1972-	--	1990-92.	1990-92.	--	
Dutton Creek:								
Sheep Creek near Arlington	06661590	5.46	--	1962-63.	--	--	--	
Dutton Creek near McFadden	06661600	19.9	1958-63.	--	--	--	--	
Cooper Creek near Arlington	06661700	8.51	--	1962-65.	--	--	--	
Cooper Creek tributary near Arlington.....	06661740	1.83	--	1962-65.	--	--	--	
South Fork Cooper Creek near Arlington.....	06661750	6.41	--	1962-65.	--	--	--	
Laramie River near Lookout	06662000	b2,174	1912-17;1921-27;1932-	--	1965; 1976-80.	--	--	
Wheatland Reservoir No. 2 near Lookout.....	06662500	b2,221	1951-66.	--	--	--	--	
Laramie River at McGill	06663000	b2,230	1912-15.	--	--	--	--	
Laramie River below Wheatland Reservoir No. 2 (below McGill).....	06663500	b2,248	1916-17;1951-63.	--	--	--	--	
Laramie River below Luman Creek, near Wheatland...	06663900	--	--	--	1989-92.	--	--	
Laramie River near Wheatland	06664000	b2,527	1912-16;1929-33.	--	--	--	--	
Sybill Creek above Mule Creek, near Wheatland	06664400	194	1974-	--	1984-87.	--	--	
Sybill Creek below Mule Creek, near Wheatland	06664490	219	1968-73.	--	--	--	--	
Sybill Creek above Bluegrass Creek, near Wheatland	06664500	225	1941-68.	--	--	--	--	
Bluegrass Creek near Wheatland.....	06664900	139	1958-63;1968-79.	--	--	--	--	
Sybill Creek below Bluegrass Creek, near Wheatland	06665000	366	1950-68.	--	1965.	--	--	
Wheatland Canal No. 1 near Wheatland	06665500	--	1952-63.	--	1958-59.	--	--	
Sybill Creek above Canal No. 3, near Wheatland	06665790	--	1980-	--	--	--	--	
Wheatland Canal No. 3 near Wheatland	06665800	--	1958-63.	--	1958-59.	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
MISSOURI RIVER BASIN--continued								
PLATTE RIVER BASIN--continued								
North Platte River--continued								
Laramie River--continued								
Sybille Creek--continued								
Wheatland Canal No. 2 near Wheatland	06666000	--	1952-63.	--	1958-59.	--	--	
Sybille Creek near Muleshoe Ranch, near Wheatland	06666500	507	1950-58.	--	--	--	--	
Sybille Creek at Muleshoe Ranch, near Wheatland...	06666600	508	1958-63;1966-67.	--	1959.	--	--	
Sybille Creek near Wheatland.....	06667000	515	1912-16.	--	--	--	--	
Laramie River above North Laramie River, near Uva..	06667060	3,131	1973-79.	--	--	--	--	
North Laramie River near Garrett	06667200	e46	1963-65.	--	--	--	--	
North Laramie River (at upper station) near Wheatland	06667500	370	1915-23;1939-71; 1973-74.	--	--	--	--	
Piney Creek:								
Piney Creek tributary at upper station, near Wheatland.....	06667560	.18	--	1965-72.	--	--	--	
Piney Creek tributary at lower station, near Wheatland.....	06667580	.58	--	1965-70.	--	--	--	
North Laramie River at Wilson's ranch, near Wheatland								
Wheatland	06668000	377	1912-14.	--	--	--	--	
Rabbit Creek near Wheatland.....	06668040	1.30	--	1965-84.	--	--	--	
Fish Creek near Fletcher Park	06668200	6.33	1973-74.	--	--	--	--	
North Laramie River at Uva.....	06668500	530	1911-12.	--	--	--	--	
Laramie River at Uva	06669000	b3,662	1895-99;1903.	--	--	--	--	
Wheatland Creek below Wheatland.....	06669050	--	--	--	1982-	--	1982-	
Wheatland Creek near Uva	06669100	56.7	1973-74.	--	--	--	--	
Chugwater Creek at Platte-Laramie County line, near Chugwater (formerly 413918105021401)								
Chugwater	06669350	--	--	--	1984-89.	--	--	
Chugwater Creek at Chugwater	06669500	349	1911-21;1938-40.	--	1984-89.	--	--	
Chugwater Creek tributary near Chugwater.....	06669600	.23	--	1960-68.	--	--	--	
Chugwater Creek near Uva	06669850	654	1966-68;1973-74.	--	1958-59; 1965; 1984-85.	--	--	
Laramie River near Uva	06670000	b4,440	1952-68.	--	1956-59.	--	--	
Laramie River tributary near Guernsey	06670100	1.97	--	1971-79.	--	--	--	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>MISSOURI RIVER BASIN--continued</u>								
PLATTE RIVER BASIN--continued								
North Platte River--continued								
Laramie River--continued								
Laramie River tributary No. 2 near Fort Laramie ..	06670480	8.91	--	1971-76.	--	--	--	
Laramie River near (at) Fort Laramie	06670500	b4,564	1915-	--	1965-88.	1971-82.	1973-82.	
North Platte River near Lingle.....	06670900	b25,095	1968-75.	--	1969-75.	1969-75.	--	
Rawhide Creek:								
Dry Rawhide Creek near Lingle.....	06670985	20	--	1969-81.	--	--	--	
Rawhide Creek above Interstate Canal, near Lingle.....	06670990	--	--	--	1970-73.	--	--	
Rawhide Creek near Lingle.....	06671000	522	1928-92.	--	1965; 1970-73.	--	--	
North Platte River at Vaughn.....	06671500	b25,648	1924.	--	--	--	--	
North Platte River at Torrington	06672000	b25,742	1917-24;1926-39.	--	1975-79.	--	--	
Cherry Creek drain near Torrington	06672500	356	1931-32;1935-92.	--	1969-72.	--	--	
Arnold drain near Torrington	06673000	--	1931;1940-42.	--	1971-72.	--	--	
Katzer drain near Henry, Nebr	06673500	b45.9	1928-92.	--	1971.	--	--	
Mitchell Canal at Wyoming-Nebraska State line.....	06674000	--	1938-41.	--	--	--	--	
North Platte River at Wyoming-Nebraska State line.....	06674500	b22,218	1929-	--	1964-	1971-82.	1970-89.	
Horse Creek:								
Horse Creek tributary near Little Bear	06675300	8.16	--	1961-81.	--	--	--	
Horse Creek near Meriden	06675500	425	1945-47.	--	--	--	--	
Horse Creek near Johnson Ranch, near La Grange.....	06675850	595	1978-79.	--	--	--	--	
Horse Creek near Little Horse Creek	06676000	--	1911-12.	--	--	--	--	
Horse Creek (at Wye Cross Bridge) near La Grange....	06676500	645	1912-20.	--	--	--	--	
Horse Creek at WyCross Ranch, near La Grange	06676550	651	1965-73;1978-79.	--	1965; 1969-72; 1981-83.	1969-72.	1981-83.	
Bear Creek:								
South Fork Bear Creek near Little Bear	06676700	34.2	--	1960-76.	--	--	--	
Bear Creek near La Grange	06676900	516	1978-79.	--	--	--	--	
Bear Creek below Lovercheck Canyon, near LaGrange.....								
LaGrange.....	06676905	--	--	--.	1992.	--	--	
Horse Creek near Yoder	06677000	1,347	1928-33;1935-45.	--	--	--	--	
Horse Creek at lower station, near Yoder.....	06677010	e1,320	1965-72.	--	1969-72.	--	--	

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DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
<u>MISSOURI RIVER BASIN--continued</u>							
PLATTE RIVER BASIN--continued							
North Platte River--continued							
Horse Creek at Wyoming-Nebraska State line.....	06677100	1,530	1969-71.	--	--	--	--
North Platte River at Mitchell, Nebr.....	06679500	24,300	1901-13;1916-18; 1920-94.	--	--	--	--
South Platte River:							
Lonetree Creek at Carr, Colo.....	06753400	--	1993-95.		1993-95.	1993-95.	--
South Platte River near (at) Kersey, Colo	06754000	9,598	1901-3;1905-	--	1993-	1993-	--
Middle (Fork) Crow Creek near Hecla	06754500	25.8	1902-3;1933-69.	--	--	--	--
South (Fork) Crow Creek near Hecla.....	06755000	13.9	1933-69.	--	--	--	--
North Fork Crow Creek near Hecla.....	06755500	27.9	1933-44.	--	--	--	--
Crow Creek at Roundtop Road, near Cheyenne	06755800	239	1994-	--	1986-92.	--	--
Diamond Creek below Roundtop Road, at F. E.							
Warren Air Force Base	06755840	10.75	1994-	--	--	--	--
Diamond Creek at F.E. Warren Air Force Base	06755860	10.8	1992-	--	--	--	--
Diamond Creek at mouth, at F.E. Warren Air Force Base							
	06755880	10.9	1992-	--	--	--	--
Crow Creek at F.E. Warren Air Force Base	06755950	253	1994-	--	1983-94.	--	1987-94.
Crow Creek at 19th Street, at Cheyenne	06755960	257	1994-	--	--	--	--
Crow Creek near Cheyenne.....	06756000	297	1922-24;1951-57.	--	1972-75; 1983-92.	--	1972-75; 1987-92.
Crow Creek near Archer	06756060	--	--	--	1990-	--	1990-
Crow Creek near Carpenter.....	06756100	415	1990-	--	1990-92.	--	1990-92.
Lodgepole Creek near Federal	06761000	25	1933-38.	--	--	--	--
South Fork Lodgepole Creek near Federal.....	06761500	216	1933-38.	--	--	--	--
Ninemile Draw:							
Ninemile Draw tributary near Federal.....	06761600	1.49	--	1960-76.	--	--	--
Muddy Creek:							
Muddy Creek tributary near Burns.....	06761700	24.8	--	1960-76.	--	--	--
Lodgepole Creek tributary near Pine Bluffs.....	06761900	.44	--	1960-81.	--	--	--
Lodgepole Creek tributary No. 2 near Albin.....	06762600	5.69	--	1960-84.	--	--	--
Lodgepole Creek tributary No. 3 near Albin.....	06762700	.75	--	1960-71.	--	--	--

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
COLORADO RIVER BASIN							
GREEN RIVER BASIN							
Green River near Kendall	09188000	271	1910-12;1918.	--	--	--	--
Green River at Warren Bridge, near Daniel	09188500	468	1932-92;1994-	--	1962-64; 1967-72; 1974-82.	1975-78.	1974-82.
Beaver Creek near Daniel	09189000	141	1938-54.	--	--	--	--
North Horse (head of Horse Creek) Creek above Sherman Ranger Station	09189495	42.8	1982-84.	--	--	--	--
Horse Creek at Sherman Ranger Station.....	09189500	43.0	1954-74.	--	1976-78.	1976;1978.	1976; 1978.
South Horse Creek near Merna	09189550	33.3	1982-85.	--	--	--	--
Horse Creek near Daniel	09190000	106	1931-54;1982-85.	--	1969;1977.	1977.	1977.
Horse Creek at Daniel	09190500	173	1913-18.	--	--	--	--
Green River near Daniel.....	09191000	932	1912-32.	--	--	--	--
Cottonwood Creek:							
South Cottonwood Creek near Big Piney	09191300	21.4	1982-84.	--	--	--	--
Cottonwood Creek near Daniel.....	09191500	202	1938-54.	--	--	--	--
Cottonwood Creek near Big Piney (North channel and South channel)	09192000	227	1915-19;1931-32.	--	--	--	--
Cottonwood Creek near mouth, near Big Piney.....	09192500	238	1938-40.	--	--	--	--
Green River near Big Piney.....	09192600	e1,260	--	--	1967-86.	1975-78.	--
New Fork River above New Fork Lakes.....	09192750	21.8	1985.	--	--	--	--
New Fork River (New Fork) below New Fork Lake, near Cora.....	09193000	36.2	1938-72.	--	--	--	--
New Fork River at Alexander's Ranch, near Cora (near Cora)	09193500	47.3	1910-11.	--	--	--	--
New Fork River at Pinedale crossing, near Cora (near Cora)	09194000	e72	1905.	--	--	--	--
Willow Creek near Cora.....	09194500	41.8	1938-41.	--	--	--	--
Lake Creek near Cora.....	09195000	31.6	1938-41.	--	--	--	--
Duck Creek at Cora	09195500	e27	1938-41.	--	--	--	--
New Fork River (New Fork) near Pinedale	09196000	241	1938-44.	--	1975.	--	--
Pine Creek above Fremont Lake	09196500	75.8	1954-	--	1975-78; 1980; 1985-88.	1975-78.	1976.

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DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
COLORADO RIVER BASIN--continued								
GREEN RIVER BASIN--continued								
Green River--continued								
New Fork River--continued								
Pine Creek--continued								
Fremont Ditch near Pinedale	09196940	--	1985-86;1988-	--	--	--	--	
Highland Ditch near Pinedale.....	09196960	--	1985-86;1988-	--	--	--	--	
Pine Creek below Fremont Lake (at Fremont Lake outlet) (near Pinedale).....	09197000	114	1910-12;1915-18; 1985-86;1988-	--	--	--	--	
Pine Creek near Pinedale.....	09197500	118	1904-6.	--	--	--	--	
Pine Creek at Pinedale.....	09198000	118	1903-4;1914-54.	--	--	--	--	
Pole Creek below Little Half Moon Lake, near Pinedale.....	09198500	87.5	1938-1971.	--	--	--	--	
Pole Creek at Fayette.....	09199000	126	1904-6.	--	--	--	--	
Fall Creek near Pinedale.....	09199500	37.2	1938-1971.	--	--	--	--	
Fall Creek near (at) Fayette	09200000	e38	1904-5.	--	--	--	--	
Pole Creek near Pinedale.....	09200500	167	1910a.	--	--	--	--	
New Fork River (New Fork) near Boulder	09201000	552	1914-69.	--	1965; 1967-71.	--	--	
Boulder Creek above Boulder Lake, near Boulder	09201500	115	1938-39.	--	--	--	--	
Boulder Creek below Boulder Lake, near Boulder	09202000	130	1938-73.	--	--	--	--	
Boulder Creek near Boulder (New Fork).....	09202500	135	1903-6;1914-24; 1930-32.	--	--	--	--	
East Fork River (East Fork) near Big Sandy	09203000	79.2	1938-92.	--	1965;1968; 1971; 1975-78.	1975-78.	1976-77.	
East Fork at East Fork Canal.....	09203500	106	1915-17;1920-23.	--	--	--	--	
Silver Creek near Big Sandy	09204000	45.4	1938-1971.	--	1965;1977.	1977.	--	
East Fork at Newfork	09204500	348	1904-6;1914-24; 1930-32.	--	--	--	--	
Sand Springs Draw:								
Sand Springs Draw tributary near Boulder	09204700	2.77	--	1961-81.	--	--	--	
New Fork River near Big Piney	09205000	e1,230	1954-	--	1965-86.	1975-78.	1975-78.	
North Piney Creek above Apperson Creek, near Mason.....	09205490	29.6	1982-84.	--	--	--	--	

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Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
COLORADO RIVER BASIN--continued								
GREEN RIVER BASIN--continued								
Green River--continued								
North Piney Creek near Mason (Marbleton).....	09205500	e58	1915-16;1931-1972.	--	1977.	1977.	1977.	
Middle Piney Creek below South Fork, near Big Piney	09206000	34.3	1939-54.	--	--	1981.	--	
Middle Piney Creek above Springman Creek, near Big Piney	09206500	42.1	1938-39.	--	--	--	--	
Middle Piney Creek near Big Piney	09207000	e46	1914-18;1931-32.	--	--	--	--	
South Piney Creek near Big Piney	09207500	117	1938-42.	--	--	--	--	
Dry Basin Creek near Big Piney	09207650	47.2	--	1971-81.	1975-76; 1978.	1965; 1975-76; 1978.	--	
Dry Piney Creek near Big Piney	09207700	e67	1965-73.	--	1990-93.	1965-68; 1971-73; 1990-93.	--	
La Barge Creek near La Barge Meadows ranger station.....	09208000	e6.3	1940-42;1950-81.	--	1975-78.	1975-78.	1976-78.	
La Barge Creek above Viola	09208400	122	1982-84.	--	--	--	--	
La Barge Creek near Viola (La Barge).....	09208500	172	1913-16;1940-49.	--	1977-78.	1978.	1977-78.	
La Barge Creek near La Barge (Tulsa).....	09209000	193	1931-39.	--	1963.	--	--	
Green River near La Barge	09209400	e3,910	1963-	--	1963-94.	1975-82; 1986-94.	1973-80; 1986-94.	
Green River near Fontenelle.....	09209500	3,970	1946-65.	--	1962-63.	--	--	
Fontenelle Creek at upper station, near Fontenelle	09210000	e58	1941-42.	--	--	--	--	
Fontenelle Creek near Herschler Ranch, near Fontenelle.....	09210500	152	1951-	--	1975-78.	1975-78.	1977.	
Fontenelle Creek near Fontenelle.....	09211000	224	1914-19;1931-53.	--	--	--	--	
Green River tributary near Fontenelle.....	09211100	3.75	--	1961-74.	--	--	--	
Fontenelle Reservoir near Fontenelle	09211150	e4,280	1964-	--	1975.	--	--	
Green River below Fontenelle Reservoir	09211200	e4,280	1963-	--	1967-	1975-78; 1980.	1973-80.	
Fourmile Gulch:								
Fourmile Gulch tributary near Fontenelle	09211300	14.2	--	1971-81.	--	--	--	
Big Sandy River (Creek):								
Squaw Creek near Big Sandy.....	09211500	e28	1911-12.	--	--	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
COLORADO RIVER BASIN--continued								
GREEN RIVER BASIN--continued								
Green River--continued								
Big Sandy River--continued								
Squaw Creek--continued								
Dutch Joe Creek near Big Sandy.....	09212000	17.0	1911-12.	--	--	--	--	
Big Sandy River (Creek) at Leckie Ranch, near Big Sandy (near Big Sandy)	09212500	e94	1910-11;1939-87.	--	1961-62; 1975-78.	1974-78.	1977.	
Big Sandy Creek near Eden	09213000	265	1911;1912a.	--	--	--	--	
Big Sandy River (Creek) near Farson	09213500	322	1914-17;1920-24; 1926-34; 1953-	--	1962;1972; 1975-82.	1971-82.	1977.	
Big Sandy Reservoir near Farson.....	09213700	386	1987-	--	--	--	--	
Big Sandy River below Big Sandy Reservoir	09213705	--	--	--	1981-86.	--	--	
Big Sandy River at Farson	09213800	--	--	--	1981-86.	--	--	
Little Sandy Creek near Elkhorn.....	09214000	20.9	1939-71.	--	1961-62; 1977.	1977.	1977.	
Little Sandy Creek above Eden.....	09214500	134	1954-81.	--	1962; 1975-81.	1972; 1975-81.	1977.	
Jack Morrow Creek near Farson.....	09214955	--	--	--	1981.	--	--	
Pacific Creek near Farson.....	09215000	e500	1954-73.	--	1976-78.	1969; 1976-78.	1976-77.	
Little Sandy Creek near Eden.....	09215500	823	1911-12.	--	1981-86.	--	--	
Big Sandy River below Farson	09215550	b1,097	1981-	--	1982-	--	--	
Simpson Gulch near Farson	09215990	78.5	--	1961-69.	--	--	--	
Big Sandy River (Creek) below Eden.....	09216000	e1,610	1954-81.	--	1961-64; 1967-81.	1971-81.	1975-80.	
Big Sandy River at Gasson Bridge, near Eden	09216050	e1,720	1972-	--	1975-	1975-79; 1981-82; 1990-93.	1976-78.	
East Otterman Wash near Green River	09216290	16.6	--	1969-84.	--	1976.	--	
Green River at Big Island, near Green River.....	09216300	e7,300	--	--	1966-81.	1975-79.	1973-78.	
Skunk Canyon Creek near Green River	09216350	15.7	--	1965; 1971-81.	--	--	--	
Greasewood Canyon near Green River.....	09216400	45.1	--	1959-74.	--	--	--	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
<u>COLORADO RIVER BASIN--continued</u>							
GREEN RIVER BASIN--continued							
Green River at Green River	09216500	e7,670	1891;1894-1906; 1914-45.	--	--	--	--
Telephone Canyon near Green River	09216510	6.98	--	1965-72.	--	--	--
Telephone Canyon tributary near Green River.....	09216520	3.44	--	1965-72.	--	--	--
Bitter Creek:							
Great Divide basin:							
Separation Creek at upper station, near Riner	09216525	41.8	--	--	1975-76.	1975-76.	1976.
Separation Creek near Riner.....	09216527	55.3	1976-81.	--	1976-81.	1976; 1980-81.	1976.
Delaney Draw near Red Desert	09216537	34.5	--	1961-84.	1976-78.	1976-78.	--
Bitter Creek near Bitter Creek.....	09216545	308	1975-81.	--	1975-81.	1975-81.	1976-78.
Deadman Wash near Point of Rocks	09216550	152	--	1961-81.	1976-78.	1976-78.	--
Bitter Creek near Point of Rocks	09216560	765	--	1961-75.	1975-76.	1975-76.	--
Bitter Creek above Salt Wells Creek, near Salt Wells...	09216562	836	1976-81.	--	1975-81.	1975-81.	--
Salt Wells Creek near South Baxter	09216565	34.7	1976-81.	--	1975-81.	1975-81.	1976.
Gap Creek above Beans Spring Creek, near South Baxter	09216570	22.0	--	--	1976;1978.	1975-76; 1978.	1976.
Beans Spring Creek near South Baxter	09216572	4.92	--	--	1975-76; 1978.	1975-76; 1978.	1975-76.
Beans Spring Creek at mouth, near South Baxter	09216574	13.1	--	--	1975-1976; 1978.	1976;1978.	1975-76.
Gap Creek below Beans Spring Creek, near South Baxter	09216576	35.9	1975-76.	1976-81.	1975-76; 1978.	1975-76; 1978.	1975-76.
Dry Canyon Creek near South Baxter	09216578	3.69	1976-80.	--	1980.	1979-80.	--
Big Flat Draw near Rock Springs.....	09216580	19.5	--	1973-81.	1976.	1976-77.	--
Cutthroat Draw near Rock Springs (formerly Salt Wells Creek tributary near Rock Springs).....	09216600	7.88	--	1959-81.	--	--	--
No Name Creek near Rock Springs.....	09216695	18.2	--	1973-81.	1975.	1975; 1977-78.	--
Salt Wells Creek near Rock Springs.....	09216700	515	--	1959-76.	1975-76.	1968; 1975-76.	--
Salt Wells Creek near Salt Wells	09216750	526	1976-81.	--	1975-81.	1975-81.	1976.

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DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
COLORADO RIVER BASIN--continued								
GREEN RIVER BASIN--continued								
Green River--continued								
Bitter Creek above Killpecker Creek, at Rock Springs.	09216790	--	--	--	1983-93.	1989-93.	1989-93.	
Killpecker Creek at Rock Springs.....	09216810	--	--	--	1975-80; 1983-87.	--	1975-80; 1982-83.	
Bitter Creek below Little Bitter Creek, near Kanda.....	09216880	--	--	--	1975-83.	1978; 1980-82.	1975-82.	
Bitter Creek tributary near Green River.....	09216900	1.65	--	1959-82.	--	--	--	
Bitter Creek near Green River.....	09216950	--	--	--	1966-72.	1966-72.	--	
Green River near Green River.....	09217000	114,000	1951-	--	1951-	1960-66; 1970-71; 1973-84; 1990-92.	1973-87.	
Green River below Green River.....	09217010	--	--	--	1905;1974-	1975;1977.	1974-89.	
Blacks Fork above Blacks Fork ranger station, Utah....	09217500	48.8	1937-39.	--	--	--	--	
Blacks Fork near Robertson.....	09217900	130	1966-86;1992-	--	--	--	--	
Blacks Fork at Blacks Fork ranger station, Utah.....	09218000	129	1937-39.	--	--	--	--	
Blacks Fork near Millburne.....	09218500	152	1939-	--	1969-70; 1975-78.	1975-78.	1976-77.	
Blacks Fork near Urie.....	09219000	261	1913-24;1937-55.	--	--	--	--	
East Fork of Smiths Fork at China Meadows, near Robertson.....	09219500	36.9	1938-39.	--	--	--	--	
East Fork of Smiths Fork near Robertson.....	09220000	53.0	1939-	--	1975-78.	1975-78.	1977.	
West Fork of Smiths Fork near Robertson.....	09220500	37.2	1939-81.	--	1975-78.	1975-78.	1977.	
Smiths Fork near Robertson.....	09221000	144	1938-39.	--	1969-70; 1976.	1976.	1976.	
Smiths Fork at Mountainview.....	09221500	192	1941-57.	--	--	--	--	
Smiths Fork near Lyman.....	09221650	--	--	--	1974-89.	1975-78.	1974-82.	
Mud Spring Hollow:								
Mud Spring Hollow tributary near Lyman.....	09221670	.97	--	1965-72.	--	--	--	
Mud Spring Hollow near Church Butte, near Lyman.....	09221680	8.83	--	1965-84.	1977-78.	1977-78.	--	
Mud Spring (Hank) Hollow near Lyman.....	09221700	10.2	--	1959-71.	--	--	--	
Blacks Fork near Lyman.....	09222000	821	1937-57;1962-83.	--	1962-89.	1971-81.	1973-80.	

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Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
COLORADO RIVER BASIN--continued								
GREEN RIVER BASIN--continued								
Green River--continued								
Blacks Fork--continued								
Muddy Creek:								
Little Muddy Creek:								
Ryckman Creek near Glencoe	09222200	53.4	1980-81.	--	1980-81.	1980-81.	--	
Little Muddy Creek above North Fork, near Glencoe	09222250	366	1980-81.	--	1980-81.	1980-81.	--	
Little Muddy Creek near Glencoe	09222300	416	1976-80.	--	1975-80.	1975-80.	1976.	
Muddy Creek near Hampton	09222400	963	1975-81.	--	1975-81.	1975-81.	1976.	
Blacks Fork above Hams Fork, near (at) Granger (near Granger)	09222500	e2,170	1896-97.	--	--	--	--	
Hams Fork below Pole Creek, near Frontier	09223000	128	1952-	--	1975-78.	1975-78.	--	
Hams Fork near Frontier	09223500	298	1945-1972.	--	--	--	--	
Hams Fork at Diamondville (Kemmerer)	09224000	386	1917-33;1945-49.	--	--	--	--	
Hams Fork near Diamondville	09224050	--	--	--	1975-89; 1992-	1980-82.	1975-89; 1992-	
Hams Fork near Granger	09224450	e670	--	--	1967-86.	1971-82.	1975-76.	
Blacks Fork below Hams Fork, at Granger (at Granger)	09224500	e2,840	1896-1900.	--	--	--	--	
Blacks Fork tributary near Granger.....	09224600	5.03	--	1959-81.	--	--	--	
Blacks Fork near Little America	09224700	e3,100	1962-	1962-	1964-	1968; 1970-82; 1989.	1973-82.	
Meadow Springs Wash:								
Meadow Springs Wash (Spider Creek) tributary near Green River.....	09224800	5.22	--	1962-65; 1968-81.	--	1978.	--	
Blacks Fork tributary No. 2 near Green River	09224810	12.0	--	1965-81.	1978.	1978.	--	
Blacks Fork tributary No. 3 near Green River	09224820	3.59	--	1965-84.	--	--	--	
Blacks Fork tributary No. 4 near Green River	09224840	1.26	--	1965-81.	--	--	--	
Blacks Fork near Marston	09224900	--	--	--	1959-64.	--	--	
Summers Dry Creek near Green River	09224980	423	--	1965-81.	1976-78.	1976-78.	--	

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DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
COLORADO RIVER BASIN--continued							
GREEN RIVER BASIN--continued							
Green River--continued							
Blacks Fork near Green River.....	09225000	e3,670	1947-62.	--	1954-55; 1958-59; 1967.	--	--
Squaw Hollow near Burntfork	09225200	6.57	--	1965-84.	1977-78.	1975; 1977-78.	--
Green River tributary No. 2 near Burntfork.....	09225300	13.0	--	1959; 1961-81.	1976.	1976-77.	--
Green River near Linwood, Utah.....	09225500	e14,300	1928-63.	--	--	--	--
Henrys Fork near Lonetree.....	09226000	e56	1942-72.	--	1969-72; 1976-77.	1977.	1976-77.
Middle Fork Beaver Creek near Lonetree.....	09226500	e28	1948-70.	--	--	--	--
East Fork Beaver Creek near Lonetree.....	09227000	e8.2	1948-62.	--	--	--	--
West Fork Beaver Creek near Lonetree.....	09227500	e23	1948-62.	--	--	--	--
Henrys Fork near Burntfork	09228000	242	1942-54.	--	--	--	--
Burnt Fork near Burntfork.....	09228500	52.8	1943-83.	--	1969-70; 1975-78.	1975-78.	1977.
Burnt Fork at Burntfork.....	09229000	e73	1929-43.	--	--	--	--
Henrys Fork tributary near Manila, Utah.....	09229450	3.15	--	1965-74.	--	--	--
Henrys Fork near Manila, Utah.....	09229500	e520	1928-93.	--	1954-55; 1958-89.	1972; 1975-78; 1989.	1976.
Sheep Creek:							
Sheep Creek upper canal near Manila, Utah.....	09231000	--	1949-61.	--	--	--	--
Carter Creek canal near Manila, Utah.....	09231200	--	1956-61.	--	--	--	--
Sheep Creek lower canal near Manila, Utah.....	09231500	--	1949-61.	--	--	--	--
Sheep Creek near Manila, Utah	09232000	42	1942-61.	--	--	--	--
Sheep Creek at mouth, near Manila, Utah	09232500	111	1946-61.	--	--	--	--
Flaming Gorge Reservoir at Flaming Gorge Dam, Utah..	09234400	e19,350	1962-	--	--	--	--
Green River near Greendale, Utah.....	09234500	i19,350	1950-	--	1956-59; 1963-	1956-59.	--
Vermillion Creek near Hiawatha, Colo	09235300	196	1975-81.	--	1975-81.	1975-81.	1976-77.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
COLORADO RIVER BASIN--continued								
GREEN RIVER BASIN--continued								
Green River--continued								
Yampa River:								
Middle Fork Little Snake River:								
North Fork Little Snake River near Encampment..	09251800	9.64	1956-65.	--	--	--	--	
North Fork Little Snake River near Slater, Colo	09251900	29.3	1956-63.	--	1957-58; 1977-78.	1977-78.	1977.	
Little Snake River near Slater, Colo.....	09253000	285	1943-47;1950-	--	1977-86.	1977.	1977.	
Battle Creek near Encampment.....	09253400	13.0	1956-63;1985-88.	--	1978; 1986-88.	1978; 1986-88.	1978.	
West Fork Battle Creek:								
Haggarty Creek above Belvidere ditch, near Encampment	09253455	--	--	--	1993-	--	--	
West Fork Battle Creek at Battle Creek Campground, near Savery	09253465	--	--	--	1993-	--	--	
Slater Fork (Creek) near Slater, Colo	09255000	161	1910-12;1931-	--	--	--	--	
East Fork Savery Creek near Encampment	09255400	5.57	1956-58;1985-88.	--	1986-87.	1986-88.	--	
Savery Creek at upper station, near Savery.....	09255500	200	1940-44;1952-71.	--	1957-58; 1975-78; 1986.	1976-78.	1975-78.	
Big Sandstone Creek near Savery	09255900	9.85	1956-58;1985-88.	--	1986-87.	1986-88.	--	
Savery Creek near Savery	09256000	330	1941-46;1947-72; 1985-92.	--	1975-78; 1985-91.	1976-78; 1985-91.	1975-78; 1985-91.	
Savery Creek at Savery	09256500	354	1915-16;1918-22.	--	1957;1975; 1977.	1977.	1975; 1977.	
Little Snake River near Dixon.....	09257000	988	1910-23;1938-	--	1957-58; 1975-78; 1981-88.	1971-82; 1988.	1975-77.	
Willow Creek near Baggs.....	09257500	e5	1911-23.	--	--	--	--	
Willow Creek near Dixon.....	09258000	e24	1953-	--	--	--	--	
Muddy Creek:								
Cow Creek:								
Dry Cow Creek near Baggs	09258200	49.7	--	1970-81.	1976-78.	1975-79.	--	
Little Robber Reservoir	09258500	b8.5	1954-62d.	--	--	--	--	
Muddy Creek above Baggs	09258900	1,178	--	1958-71.	1976;1978.	1976;1978.	1976.	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>COLORADO RIVER BASIN--continued</u>								
GREEN RIVER BASIN--continued								
Green River--continued								
Yampa River--continued								
Little Snake River--continued								
Muddy Creek near Baggs	09259000	e1,257	1915-16;1918;1987-91.	--	1957-58; 1985.	1988-91.	1985.	
Little Snake River below Baggs.....	09259050	--	--	--	1980-	1989-	1981-89.	
Fourmile Creek (at Ryan's Ranch) near Baggs.....	09259500	e4	1911-23.	--	--	--	--	
Little Snake River near Baggs.....	09259700	e3,020	1961-68.	--	1965-80.	1977.	1977.	
Little Snake River near Lily, Colo	09260000	e3,730	1904;1921-	--	--	--	--	
<u>GREAT SALT LAKE BASIN</u>								
BEAR RIVER BASIN								
Bear River:								
East Fork Bear River near Evanston	10010400	34.6	1973-86.	--	--	--	--	
Hilliard-East Fork Canal near State line, near Evanston.....	10010500	--	1941-79.	--	--	--	--	
Diversions from Bear River above gaging station, near Utah-Wyoming State line.....	10011000	--	1944-47j;1953-56j; 1958-k.	--	--	--	--	
West Fork Bear River at Whitney Dam, near Oakley, Utah.....	10011200	6.79	1963-86.	--	--	--	--	
West Fork Bear River below Deer Creek, near Evanston.....	10011400	52.2	1973-86.	--	--	--	--	
Bear River near Utah-Wyoming State line	10011500	172	1942-	--	--	--	--	
Mill Creek at Utah-Wyoming State line.....	10012000	59	1949-62.	--	--	--	--	
Mill Creek near Evanston.....	10012500	60.6	1942-48.	--	--	--	--	
Diversions from Mill Creek	10013000	--	1944-45j.	--	--	--	--	
Mill Creek below diversions, near Evanston	10013500	--	1946-47j.	--	--	--	--	
Bear River above Sulphur Creek, near Evanston	10014000	282	1946-56.	--	--	--	--	
Sulphur Creek above diversions, near Evanston.....	10014500	--	1945k.	--	--	--	--	
Willow Creek above diversion, near Evanston	10015000	--	1945k.	--	--	--	--	
Diversions from Sulphur Creek and Willow Creek ...	10015500	--	1944-45j.	--	--	--	--	
Sulphur Creek above reservoir, near Evanston	10015700	64.2	1957-	--	--	--	--	
Sulphur Creek below reservoir, near Evanston	10015900	69.2	1958-92.	--	--	--	--	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
GREAT SALT LAKE BASIN--continued							
BEAR RIVER BASIN--continued							
Bear River--continued							
Sulphur Creek near Evanston.....	10016000	80.5	1942-59.	--	--	--	--
Bear River at Millis, near Evanston.....	10016500	420	1942-46.	--	--	--	--
Bear River at Evanston	10016900	433	1984-	--	1986;1989.	1988-89.	--
Yellow Creek near Evanston	10017000	79.2	1944-45;1949-78.	--	--	--	--
Coyote Creek near Evanston	10017500	e28	1942-45.	--	--	--	--
Diversions from Yellow Creek	10018000	--	1944-45j.	--	--	--	--
Yellow Creek below diversions, near Evanston	10018500	--	1946-47j.	--	--	--	--
Yellow Creek at mouth, near Evanston	10018900	--	--	--	1983-89.	--	1983-89.
Bear River near Evanston	10019000	715	1913-56.	--	--	--	--
Chapman Canal at State line, near Evanston	10019500	--	1942-86.	--	--	--	--
Whitney Canyon Creek near Evanston	10019700	8.93	--	1965-81.	--	--	--
Diversions from Bear River between State line and Woodruff gaging stations	10020000	--	1944-47j;1953-56j; 1958-k.	--	--	--	--
Bear River above reservoir, near Woodruff, Utah	10020100	752	1961-	--	1968-	1989-	1978-89.
Woodruff Narrows Reservoir near Woodruff, Utah.....	10020200	784	1965-	--	--	--	--
Bear River below reservoir, near Woodruff, Utah	10020300	784	1961-	--	--	--	--
Bear River near Woodruff, Utah.....	10020500	e870	1941-61.	--	--	--	--
Bear River near Randolph, Utah.....	10026500	1,616	1943-92.	--	--	--	--
Twin Creek:							
Rock Creek near Fossil	10026800	49.0	1961-66.	--	--	--	--
Twin Creek tributary near Sage.....	10026850	2.91	--	1965-70.	--	--	--
Twin Creek at Sage	10027000	246	1943-62;1976-81.	--	1958;1961; 1967-69; 1975-81; 1989-	1976-81; 1989-	1975-80.
Twin Creek Canal near Sage	10027500	--	1944-45j.	--	--	--	--
Diversions from Bear River between Randolph and below Pixley Dam gaging stations.....	10028000	--	1944-48j;1953-56j; 1958-k.	--	--	--	--
Bear River below Pixley Dam, near Cokeville (near Cokeville)	10028500	2,032	1941-43;1952-56; 1958-	--	--	--	--

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year				
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology
GREAT SALT LAKE BASIN--continued							
BEAR RIVER BASIN--continued							
Bear River--continued							
Leeds Creek near Cokeville	10029000	--	1944j.	--	--	--	--
Bear River above Sublette Creek, near Cokeville	10029500	e2,110	1948-55.	--	--	--	--
Sublette Creek near Cokeville.....	10030000	--	1944-45j;1955-56j; 1958-k.	--	--	--	--
Smiths Fork near Afton.....	10030300	1.62	--	1964-70.	--	--	--
Smiths Fork near Smoot.....	10030500	17.3	1943.	--	--	--	--
Smiths Fork above Hobbie Creek, near Geneva, Idaho	10031000	--	1944-46j.	--	--	--	--
Smiths Fork near Border	10032000	165	1942-	--	--	--	--
Coal (Howland) Creek near Cokeville	10032500	--	1944-48j;1953-56j.	--	--	--	--
Muddy Creek above Mill Creek, near Cokeville	10032700	20.7	1965-69.	--	--	--	--
Mill Creek near Cokeville	10032800	8.07	1966-69.	--	--	--	--
Grade Creek near Cokeville	10033000	--	1944-48j;1953-56j; 1958-k.	--	--	--	--
Pine Creek above diversions, near Cokeville.....	10033500	--	1944-48j;1953-56j; 1958-65k.	--	--	--	--
Diversions from Pine Creek	10034000	--	1944-48j;1953-56j; 1958-k.	--	--	--	--
Bruner Creek above Covey Canal, near Cokeville	10034500	--	1944-48j;1953-56j; 1958-k.	--	--	--	--
Smiths Fork at Cokeville.....	10035000	275	1942-52.	--	1985-88; 1990-92; 1993-	1989-92; 1993-	--
Spring Creek above Covey Canal, near Cokeville.....	10035500	--	1944-48j;1953-56j; 1958-k.	--	--	--	--
Spring Creek to Collette Creek, near Cokeville	10036000	--	1944-48j;1953-56j.	--	--	--	--
Birch Creek near Cokeville.....	10036500	--	1944-45k.	--	--	--	--
Garrett Springs:							
Hickman Canal near Cokeville	10037000	--	1944-48j.	--	--	--	--
George Bourne Canal near Cokeville.....	10037500	--	1944-48j.	--	--	--	--
Bear River below Smiths Fork, near Cokeville.....	10038000	2,447	1954-	--	1993-	--	1993-

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>GREAT SALT LAKE BASIN--continued</u>								
BEAR RIVER BASIN--continued								
Bear River--continued								
Chalk Creek:								
Chalk Creek Canal near Cokeville	10038500	--	1944-45j.	--	--	--	--	
Diversions from Bear River between Pixley Dam and Border gaging stations, and from Smiths Fork and its tributaries.....	10039000		1944-48j; 1953-56j; 1958-k.	--	--	--	--	
Bear River at Border.....	10039500	2,486	1937-	--	1961;1965-	1978-84; 1986-93.	1973-89.	
Thomas Fork near Geneva, Idaho	10040000	45.3	1939-51.	--	--	--	--	
Thomas Fork near Wyoming-Idaho State line	10041000	113	1949-92.	--	--	--	--	
Sheep Creek:								
Sheep Creek tributary near Border.....	10043300	.12	--	1961-64.	--	--	--	
Sheep Creek tributary No. 2 near Border	10043350	.34	--	1965-71.	--	--	--	
<u>SNAKE RIVER BASIN</u>								
Snake River at south boundary of Yellowstone National Park								
	13010000	485	1913-25.	--	--	--	--	
Snake River above Jackson Lake, at Flagg Ranch	13010065	486	1987-	--	1987-	1987-92.	1987-93.	
Snake River above Jackson Lake, at Flagg Ranch	13010200	486	1983-87.	--	1972; 1975-76; 1983-88.	--	1976.	
Jackson Lake near (at) Moran	13010500	807	1908-79;1984-	--	--	--	--	
(South Fork) Snake River near (at) Moran.....	13011000	807	1903-	--	--	--	--	
Pacific Creek at (near) Moran.....	13011500	169	1906;1917-18; 1944-75; 1978-	--	1987-93.	1987-93.	--	
Buffalo Fork:								
Blackrock Creek:								
Blackrock Creek tributary near Moran.....	13011800	.80	--	1964-74.	--	--	--	
Buffalo Fork above Lava Creek, near Moran	13011900	323	1965-	--	1971; 1973-78.	--	--	
Buffalo Fork (River) near Moran (Elk)	13012000	378	1906a;1917-18; 1944-60.	--	--	--	--	
Spread Creek at diversion dam, near Moran	13012490	97.4	1994-	--	--	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
SNAKE RIVER BASIN--continued								
Snake River--continued								
Spread Creek near Moran (Elk).....	13012500	101	1917-18;1993-	--	1971-72; 1976;1990.	1990.	1976.	
Cottonwood Creek near Teton.....	13013000	72.3	1917-18.	--	--	--	--	
Spring Creek near Teton.....	13013500	--	1917-18.	--	--	--	--	
Snake River at Moose.....	13013650	--	1995-	--	--	--	--	
Cottonwood Creek:								
Spring Creek near Zenith.....	13014000	--	1917-18.	--	--	--	--	
Gros Ventre River at Kelly.....	13014500	622	1918;1944-58.	--	--	--	--	
Gros Ventre River at Zenith.....	13015000	683	1917-18;1987-	--	--	--	--	
Spring Creek at Zenith.....	13015500	--	1917-18.	--	--	--	--	
Spring Creek at West Gros Ventre Butte.....	13016000	--	1918.	--	--	--	--	
Snake River near Wilson.....	13016100	2,342	1972-75.	--	--	--	--	
Fish Creek:								
Lake Creek below Granite Creek Supplement, near Moose.....	13016240	--	1995-	--	--	--	--	
Granite Creek above Granite Creek Supplement, near Moose.....	13016305		1995-	--	--	--	--	
Granite Creek Supplement above Lake Creek, near Moose.....	13016310	--	1995-	--	--	--	--	
Granite Creek Supplement below Lake Creek, near Moose.....	13016315	--	1995-	--	--	--	--	
Fish Creek near Wilson.....	13016500	87.4	1917-18.	--	--	--	--	
Mosquito Creek near Wilson.....	13017000	24.2	1917-18.	--	--	--	--	
Big Spring Creek near Cheney.....	13017500	--	1918.	--	--	--	--	
FLAT CREEK BASIN								
Flat Creek near Jackson.....	13018000	40.1	1933-41;1989-	--	1966;1973.	--	--	
Cache Creek near Jackson.....	13018300	10.6	1962-	--	1965-	1968-	1969; 1973-	
Flat Creek below Cache Creek, near Jackson.....	13018350	129	1989-	--	1973.	--	--	
Flat Creek near Cheney.....	13018500	142	1917-18;1989-	--	1981-82.	--	1981-82.	
Snake River below Flat Creek, near Jackson.....	13018750	2,627	1975-	--	--	--	--	
Horse Creek near Cheney.....	13019000	37.9	1917-18.	--	--	--	--	

Footnote at end of the table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>SNAKE RIVER BASIN--continued</u>								
Snake River--continued								
HOBACK RIVER BASIN								
Hoback River:								
Rim Draw (Fish Creek) near Bondurant	13019210	3.41	--	1964-74.	--	--	--	
Sour Moose Creek near Bondurant	13019220	2.77	--	1964-81.	--	--	--	
North Fork Fish Creek near Bondurant.....	13019280	14.4	--	1964-69.	--	--	--	
Cliff Creek near Bondurant.....	13019400	58.6	--	1964-74.	--	--	--	
Granite Creek near Bondurant	13019430	--	--	--	1983-90.	1983-90.	--	
Little Granite Creek at mouth, near Bondurant.....	13019438	21.1	1981-92.	--	1981-90.	1981-90.	1981-90.	
Hoback River near Jackson (Cheney).....	13019500	564	1917-18;1944-58.	--	--	--	--	
Fall (Coburn) Creek near Jackson (Cheney)	13020000	46.8	1917-18.	1964-74.	--	--	--	
Snake River at Astoria Mineral Hot Springs	13020300	--	--	--	1992.	--	--	
Dog Creek near Cheney	13020500	14.1	1917-18.	--	--	--	--	
Cabin Creek near Jackson (Cheney).....	13021000	8.71	1917-18.	1964-74.	--	--	--	
Bailey Creek near Alpine, Idaho (Wyo.)	13021500	15.9	1917-18.	--	--	--	--	
West Table Creek near Alpine	13021700	1.06	--	1964-69.	--	--	--	
Wolf Creek near Alpine, Wyo. (Idaho).....	13022000	13.1	1917-18.	1964-67.	--	--	--	
Snake River above reservoir, near Alpine	13022500	3,465	1937-39;1953-	--	1965-86; 1988.	1974-77.	1973-80.	
RED CREEK BASIN								
Red Creek near Alpine.....	13022550	3.88	--	1964-73.	--	--	--	
COTTONWOOD CREEK BASIN								
Cottonwood Creek near Alpine	13022570	2.40	--	1964-72.	--	--	--	
GREYS RIVER BASIN								
Greys River above reservoir, near Alpine (near Alpine, Idaho).....	13023000	448	1917-18;1937-39; 1953-	--	--	--	--	
Snake River below Greys River, at Alpine, Idaho	13023500	3,940	1944-54.	--	--	--	--	
SALT RIVER BASIN								
Salt River:								
Fish Creek near Smoot.....	13023800	3.60	--	1964-74.	--	--	--	
Salt River near Smoot.....	13023900	47.8	1932-57.	--	1981-85.	--	--	
Cottonwood Creek near Smoot.....	13024500	26.3	1932-57.	--	--	--	--	
Swift Creek near Afton	13025000	27.4	1942-80.	--	1965; 1981-85.	--	--	

Footnotes at end of table.

DISCONTINUED AND ACTIVE SURFACE-WATER DISCHARGE, WATER-QUALITY, SEDIMENT, AND BIOLOGICAL STATIONS--Continued

Station name	Station number	Drainage area (square miles)	Period of record, by calendar year					
			Daily or monthly discharge or content	Annual peak discharge	Water quality	Sediment	Biology	
<u>SNAKE RIVER BASIN--continued</u>								
Snake River--continued								
SALT RIVER BASIN--continued								
Salt River:								
Crow Creek near Fairview	13025500	e115	1946-49;1961-67.	--	1965; 1983-84.	--	--	
Stump Creek near Auburn.....	13026000	103	1946-49.	--	1989-92.	--	--	
Salt River near Thayne	13026500	570	1932-33;1961-67.	--	--	--	--	
Strawberry Creek near Bedford	13027000	21.3	1932-43.	--	--	--	--	
Bear Canyon near Freedom.....	13027200	e3.3	--	1961-71.	--	--	--	
Salt River above reservoir, near Etna	13027500	829	1953-	--	1965-	1989-	1970; 1973-81; 1989-92.	
Salt River near Alpine, Idaho	13028000	878	1917-18.	--	--	--	--	
Salt River at Wyoming-Idaho State line	13028500	890	1933-55.	--	--	--	--	
Snake River near Alpine.....	13029000	4,841	1916-18;1934.	--	--	--	--	
Snake River near Irwin, Idaho.....	13032500	5,225	1934-36;1939-41; 1949-	--	--	--	--	
HENRYS FORK BASIN								
Falls River:								
Grassy Lake near Moran	13046500	10.4	1939-79.	--	--	--	--	
Boundary Creek near Bechler Ranger Station	13046680	86.9	1984-	--	--	--	--	
Conant Creek:								
Squirrel Creek:								
North Fork Squirrel Creek near Squirrel, Idaho..	13047800	2.40	1961-67.	--	--	--	--	

a Stage record or stage record and instantaneous discharge measurements only.

b Part of drainage area is noncontributing or does not contribute directly to surface runoff.

c Storm runoff for summer season only.

d Published in U.S. Geological Survey Water-Supply Paper 1475-I, Hydrology of Small Watersheds in Western States.

e Approximate.

f Published in reports of Department of Northern Affairs and National Resources, Canada.

g Published in U.S. Geological Survey Water-Supply Paper 1531, Hydrology of the Upper Cheyenne River Basin.

h Includes several sites on the reservoir.

i Approximately, includes area which is probably noncontributing.

j Published in U. S. Geological Survey Open-File Report of Bear River hydrometric data.

k Published in reports of Bear River Commission.

INTRODUCTION

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

Water resources data for water year 1995 for Wyoming consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 186 gaging stations; stage and contents for 16 lakes and reservoirs; water quality at 34 gaging stations and 22 ungaged stations; and water levels for 7 observation wells. Locations of streamflow-gaging stations, water-quality stations, and observation wells are shown in figure 1. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities of the United States or may be purchased from U.S. Geological Survey, Earth Science Information Center, Federal Center, Building 810, Box 25425, Denver, Colorado 80225.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports 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 volume is identified as "U.S. Geological Survey Water-Data Report WY-95-1." These water-data reports are for sale, in paper copy or on microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone at (307) 778-2931.

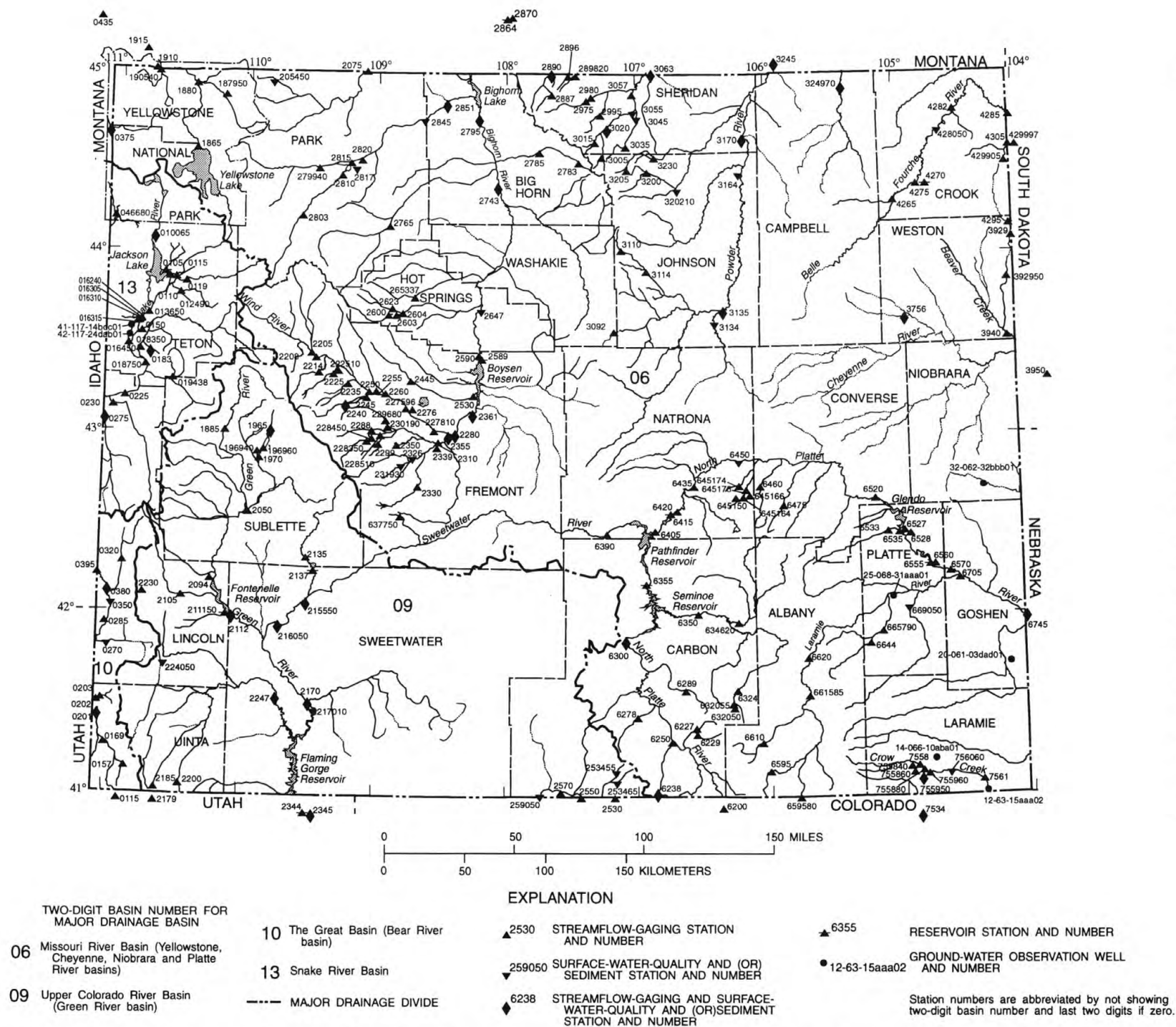


Figure 1. Location of surface-water stations, water-quality stations, stage and/or content stations, and ground-water observation wells, 1995 water year.

COOPERATION

The U.S. Geological Survey and organizations of the State of Wyoming have had cooperative agreements for the systematic collection of streamflow records since 1895, for ground-water levels since 1940, and for water-quality records since 1946. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Wyoming State Engineer, Gordon W. Fassett

Wyoming Department of Agriculture, Bill Gentle, Commissioner of Agriculture

Wyoming Water Development Commission, Michael K. Purcell, Administrator

Wyoming Department of Environmental Quality, Dennis Hemmer, Director

Wyoming Department of Transportation, Don Diller, P.E., Director

Wyoming Game and Fish Department, Francis E. Petera, Director

Fremont County, Weed and Pest District, Lars Baker, Supervisor

Teton County, County Commissioners

Teton County Natural Resource District, William Glenn, Chairman

City of Evanston, Dennis J. Ottley, Mayor

Midvale Irrigation District, Bill Brown, Manager

Shoshone and Arapaho Tribes, Joint Business Council, Alfred Ward and Richard Brannon Chairmen

Colorado State University, Dr. Albert Yates, President

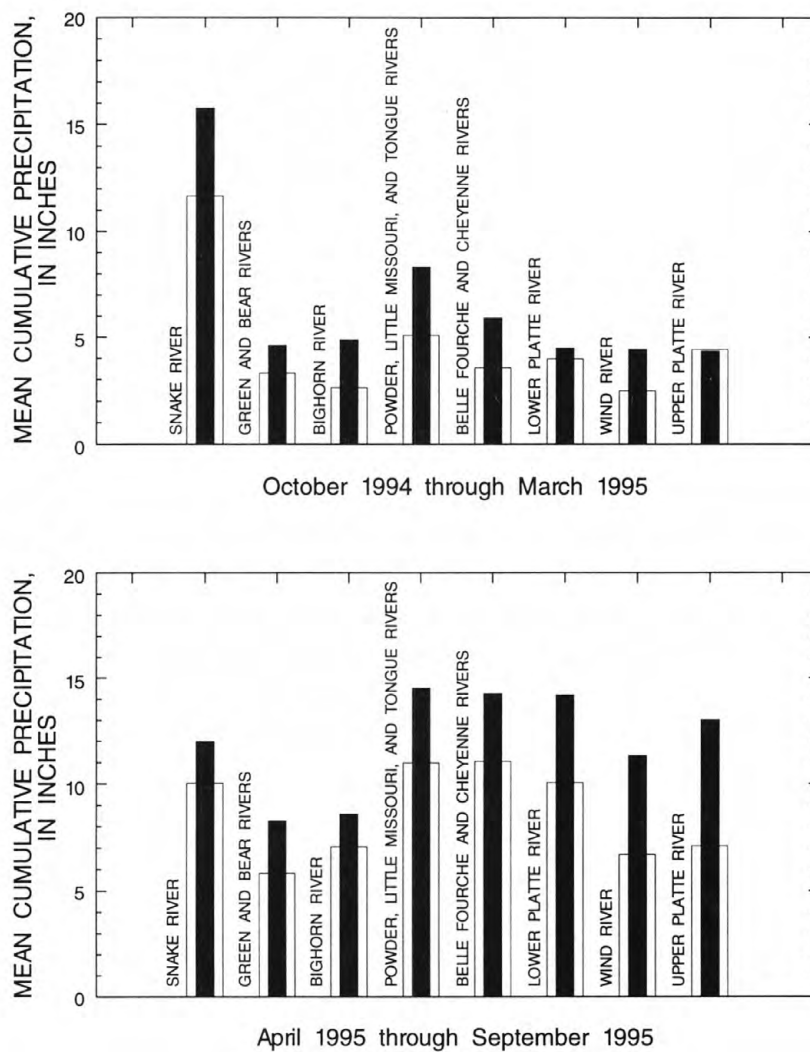
Assistance in the form of funds or services was given by the Bureau of Reclamation, U.S. Department of the Interior for 6 streamflow-gaging stations, 3 water-quality stations, and 2 reservoir stations; by the Corps of Engineers, U.S. Army for 2 streamflow-gaging stations; U.S. Air Force, Department of Defense for 5 streamflow-gaging stations; and Little Big Horn Energy of Wyoming, permittee of the Federal Energy Regulatory Commission for 1 streamflow-gaging station, published in this report.

SUMMARY OF HYDROLOGIC CONDITIONS

Precipitation was greater than normal during water year 1995 throughout most of the State. Streamflow at most streamflow-gaging stations was greater in water year 1995 than in 1994. Flooding as a result of snowmelt and rain-on-snow occurred in parts of the State during water year 1995. A statistical summary of specific conductance indicates no significant change in the overall quality of the stream water at five of the six gaging stations at which measurements were made. Ground-water levels in observation wells across most of the State were higher in 1995 than in 1994 and 1993.

Precipitation

Precipitation was greater than normal (average for 1961-90) during water year 1995 throughout most of the State. Precipitation and departures from normal for the major divisions, as defined by the National Oceanic and Atmospheric Administration, are published monthly in "Climatological Data, Wyoming". The divisional data from water year 1995 were separated into two time periods (October 1994 through March 1995, and April through September, 1995) representing seasonal precipitation for water year 1995 and compared to normal precipitation for the same periods (fig. 2). Precipitation from October 1994 through March 1995 was much greater than normal in parts of the Snake River and Powder River divisions. Precipitation for the same period was much less than normal for parts of the Upper and Lower Platte River divisions. Precipitation from April through September, 1995 was much greater than normal for much of the Platte River divisions and parts of the Wind and Powder River divisions. Precipitation for most of the other divisions for the same period was greater than normal.



EXPLANATION

- Mean cumulative precipitation by major division for portion of year indicated, water year 1995
- Mean cumulative normal precipitation by major division for portion of year indicated (normal based on period from 1961-90)

NOTE: Precipitation data summarized by major divisions as defined by the National Oceanic and Atmospheric Administration.

Figure 2. Mean cumulative precipitation for water year 1995 and mean cumulative normal precipitation for 1961-90 by major divisions, Wyoming.

Most of the precipitation data compiled for figure 2 are from weather stations in nonmountainous areas of the State. Data from these stations might not be indicative of precipitation in the mountains. Most of the precipitation in the mountains is in the form of snow. Melting of the snowpack throughout the late spring and early summer provides most of Wyoming's annual water supply. Precipitation and snowpack is reported by the U.S. Department of Agriculture, Natural Resources Conservation Service in "Wyoming Basin Outlook Reports."

Mountain snowpack as of May 1, 1995, prior to the normal intense snowmelt period, was near normal to above normal in northwestern and north-central Wyoming. Snowpack for the same period was below normal in the northeastern and south-central parts and below normal to above normal in the southeastern and southwestern parts of the State. The snowmelt period in 1995, however, was delayed by about one month in most parts of the State because of lower than normal temperatures. Additional snow accumulation in combination with the delayed snowmelt caused the mountain snowpack to increase during May 1995. As of June 1, 1995, the mountain snowpack was greater to much greater than is normal statewide except for the northeastern part of the state. The range of snowpack, in percent of normal, for stations in the major drainage basins, as defined by the National Resources Conservation Service, in Wyoming as of May 1, and June 1, 1995 are listed in the following table:

Drainage basin	Range of snowpack, in percent of normal	
	As of May 1, 1995	As of June 1, 1995
Snake River	94 to 150	129 to 181
Green and Bear River	82 to 165	0 to 800
Bighorn River	106 to 137	120 to 713
Powder and Tongue Rivers	101 to 124	300 to 954
Belle Fourche and Cheyenne Rivers	53	0
Lower Platte River	72 to 117	221 to 831
Wind River	119 to 129	259 to 354
Upper Platte River	80 to 105	188 to 213

Streamflow

Streamflow at most streamflow-gaging stations across the State was greater in water year 1995 than in water year 1994. The median daily discharge was greater in 1995 than in 1994 for about three-fourths of the gaging stations. For about one-third of the gaging stations, the median daily discharge in 1995 was greater than the median daily discharge for the period of record. Streamflow statistics at gaging stations for representative major rivers in Wyoming are shown in figure 3. Average annual discharge at gaging stations on most major rivers in 1995 was greater than the median average annual discharge for the period of record. Average monthly discharge also was greater than the median average monthly discharge for the period of record for most of the gaging stations from June through September, 1995. The exception was gaging station 06285100 (Shoshone River near Lovell) where annual and monthly average discharges were mostly less than median average discharges for the period of record. The average monthly discharge for October 1994 at gaging station 06317000 (Powder River at Arvada) established a new maximum for the period of record (1931-95).

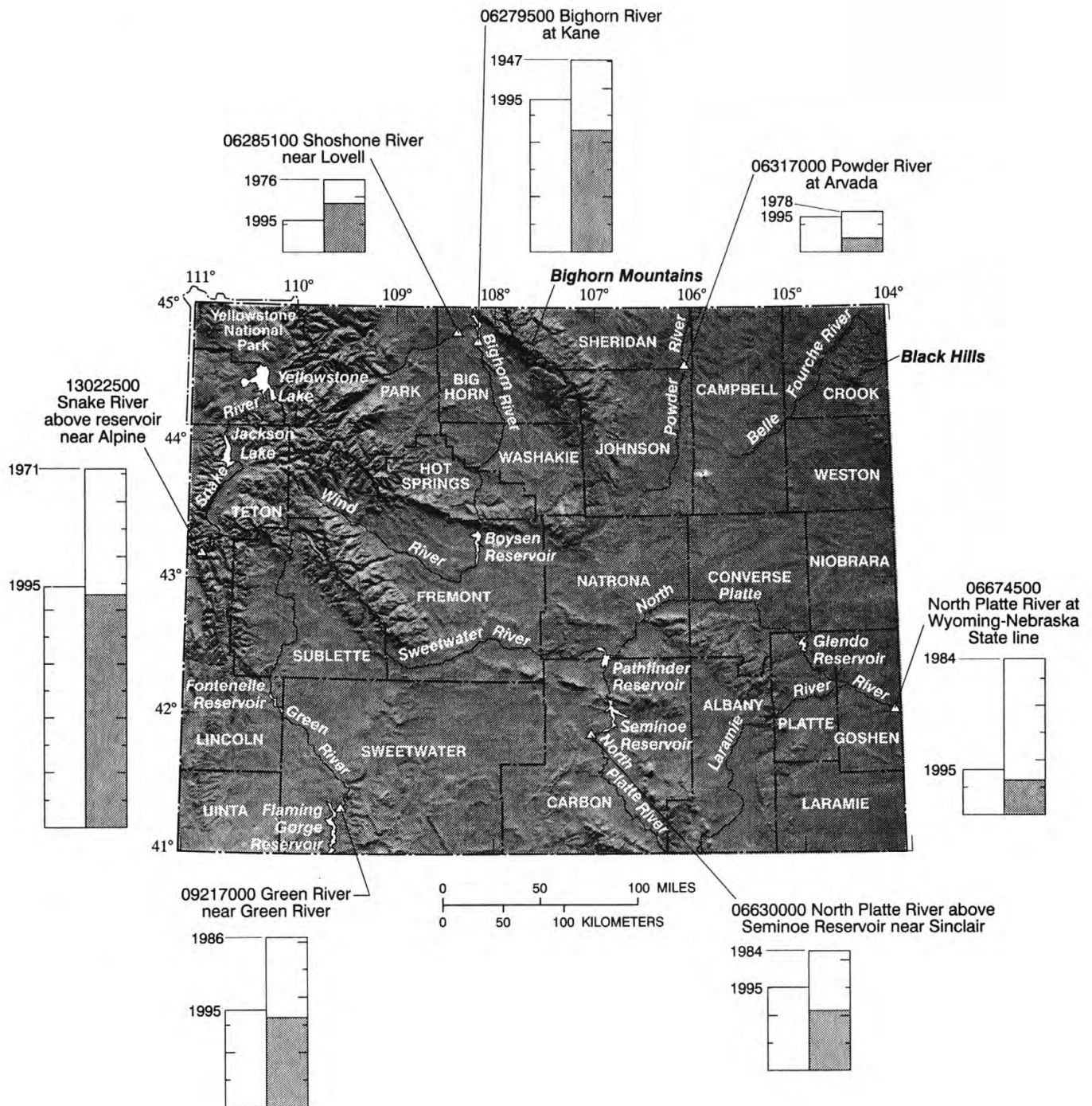
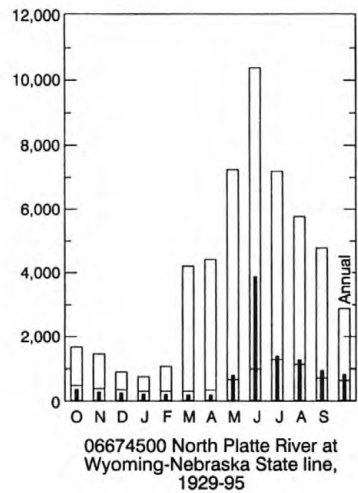
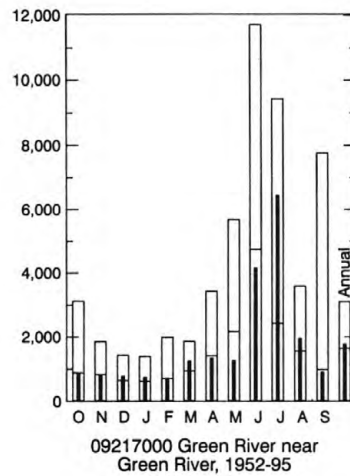
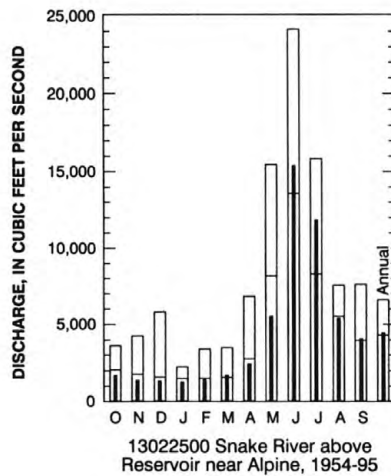
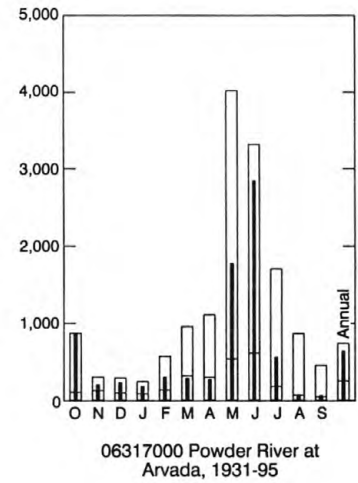
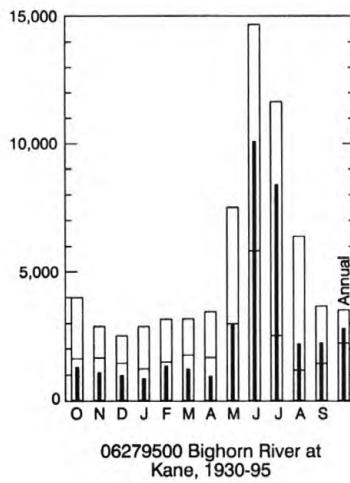
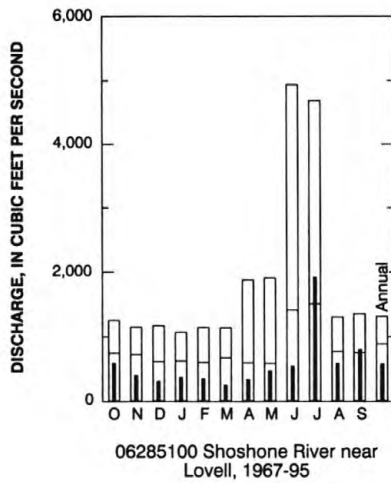


Figure 3. Monthly and annual average discharge of major rivers in Wyoming for water year 1995, and monthly and annual maximum and median discharge for period of record.

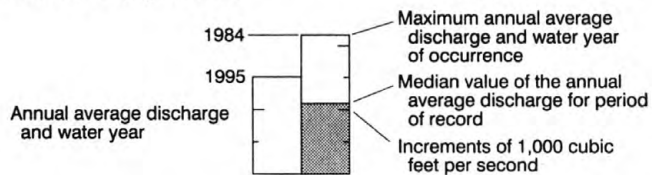


EXPLANATION

COMPARISON OF ANNUAL AVERAGE DISCHARGE

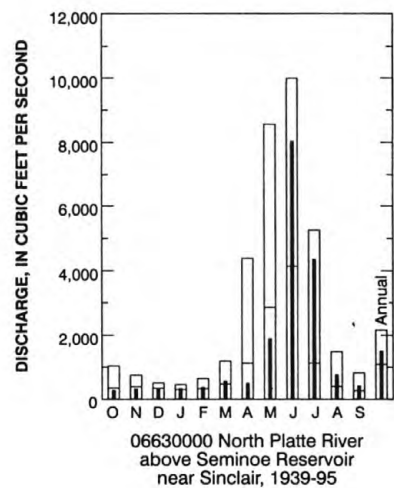
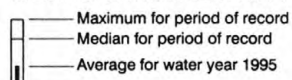
Data for water year 1995

Data for period of record



△ STREAMFLOW-GAGING STATION SELECTED TO TYPIFY DRAINAGE BASIN--Station number and name shown below bar graph

MONTHLY OR ANNUAL DISCHARGE



Floods

Flooding as a result of snowmelt or rain-on-snow occurred in parts of the State during water year 1995. Instantaneous peak discharges recorded in late May, through early July, 1995 exceeded peaks of record at streamflow-gaging stations in northwestern, central, and northeastern Wyoming. Instantaneous discharge, date of occurrence, period of operation, and approximate recurrence interval for peaks of record at eight gaging stations with at least 10 years of record are listed in the following table:

Station number	Station name	Peak of record			
		Discharge, in cubic feet per second	Date measured	Period of operation, water years	Approximate recurrence interval, in years
13010065	Snake River above Jackson Lake, at Flagg Ranch	11,500	06/06/95	1984-95	10
06188000	Lamar River near Tower Falls Ranger Station, Yellowstone National Park	14,000	06/06/95	1923-95	50
06221400	Dinwoody Creek above Lakes, near Burris	1,510	07/13/95	1958-95	500
06233900	Popo Agie River near Arapahoe	4,760	07/17/95	1980-95	10
06289600	West Pass Creek near Parkman	340	05/09/95	1983-95	500
06289820	East Pass Creek near Dayton	511	05/09/95	1983-95	500
06305700	Goose Creek near Acme	3,330	06/17/95	1984-95	25
06429905	Sand Creek near Ranch A, near Beulah	1,230	05/08/95	1977-95	50

Also noteworthy was flooding in relatively small drainages in southeastern Natrona County as a result of a wet, late May snowstorm. Instantaneous peak discharges (and unit discharge) ranging from 189 ft³/s (cubic feet per second) (10.2 ft³/s/mi² (cubic feet per second per square mile)) at streamflow-gaging station 06645166 (Smith Creek below Otter Creek, near Casper), to 75 ft³/s (16.1 ft³/s/mi²) at station 06645174 (Beaver Creek above Pole Creek, near Casper) were recorded. The recurrence intervals of these peaks, based on 7 years of record, ranged from about 10 to 200 years, respectively.

An intense, localized rainstorm on June 27, 1995 resulted in flooding in southern Natrona County. An indirect measurement of peak discharge was completed for Eagle Creek near Alcova, about 30 miles southwest of Casper. Peak discharge for the 22.4 mi² drainage area was estimated as 9,590 ft³/s, about 428 ft³/s/mi². The estimated recurrence interval for this event was greater than 500 years.

Chemical Quality of Stream Water

The specific conductance of stream-water samples was measured at six stream-flow gaging stations from five selected streams in Wyoming during water year 1995 to describe the general chemical quality of the stream water. Specific conductance typically varies directly with the dissolved-solids concentration; thus, the dissolved solids measurement was chosen as an indicator of the concentration of dissolved ions in water. Onsite field measurement of specific conductance is not an elaborate or complex technique; specific conductance commonly is measured during each field visit.

A statistical summary of specific conductance measurements at the six selected streamflow-gaging stations is shown in table 1. The table lists the mean, standard deviation, median, and maximum and minimum specific conductance values for water year 1995 and for the 10-year period of record 1985-1994. The mean of the specific conductance values measured in water year 1995 at the six gaging stations was within one standard deviation of the statistical mean established for the previous 10-year period of record for gaging stations on the Big Horn River (06279500), Powder River (06317000),

North Platte River (06630000 and 06674500), and Green River (09217000), indicating no significant change has occurred in the overall quality of the stream water.

The mean of specific conductance values measured in 1995 at the Shoshone River (station 06285100) was greater than one standard deviation of the statistical mean established for the previous 10-year period of record for that station. To determine if there were significant differences between values of specific conductance for water year 1995 and values for the previous 10-year period of record, a statistical test called the Wilcoxon rank-sum test was used. The test indicated that no significant change has occurred in the overall quality of the stream water.

Table 1.--Statistical summary of specific conductance measurements for selected water samples collected at selected locations for the 1995 and 1985-94 water years.

[Specific conductance in microsiemens per centimeter at 25 degrees Celsius]

Stream name and station number	Number of values	Specific Conductance										
		Water Year 1995						Water years 1985-1994				
		Mean	Standard deviation	Median	Maximum	Minimum	Number of values	Median	Standard deviation	Median	Maximum	Minimum
Bighorn River 06279500	10	1,118	483	1,038	1,850	530	94	958	184	950	1,330	458
Shoshone River 06285100	10	1,186	577	1,295	1,990	296	79	879	243	850	1,390	342
Powder River 06317000	4	1,906	742	1,925	2,750	1,024	79	2,737	1,173	2,450	6,500	880
North Platte River 06630000	3	350	96	378	429	243	68	403	118	423	700	146
North Platte River 06674500	9	884	152	976	1,010	627	86	867	95	880	1,060	640
Green River 09217000	4	570	83	549	681	502	72	582	176	573	1,000	285

Ground-Water Levels

Ground-water levels in observation wells throughout most of the State were higher in water year 1995 than water levels in 1994 and 1993. Ground-water levels were measured in a statewide network of 81 observation wells. Most of the wells are located in areas of extensive ground-water withdrawal in southeastern Wyoming. In Niobrara, Platte, Goshen, and eastern Laramie counties, ground water is withdrawn from the High Plains aquifer principally for irrigation. In central Laramie County, ground water is withdrawn from the High Plains aquifer, also, principally for domestic use. In northeastern Wyoming, water levels are monitored in several wells completed in Paleozoic aquifers.

Continuous ground-water level measurements were recorded at 62 observation wells equipped with float-driven, digital recorders and at two artesian wells equipped with pressure-sensing transducers and electronic data recorders. Water levels in the remaining wells in the network were measured manually with a steel or electric tape. The changes in water levels from water year 1994 to water year 1995, and from water year 1993 to water year 1995, were determined from the difference between the highest water levels measured during each water year.

Ground-water levels in observation wells throughout the State rose in 38 wells and declined in 34 wells from water year 1994 to water year 1995; from water year 1993 to water year 1995, water levels rose in 37 wells, declined in 33 wells, and did not change in 2 wells. Most of these wells, however, are located in southeastern Wyoming where water levels generally declined. Water levels in wells completed in the High Plains aquifer in southeastern Wyoming rose in 17 wells and declined in 31 wells from water year 1994 to water year 1995, ranging from about +5.7 ft to -6.5 ft. From water year 1993 to water year 1995, water levels in wells in the High Plains aquifer rose in 18 wells, declined in 28 wells, and did

not change in 1 well, ranging from about +4.7 ft to -15 ft. Water levels in wells completed in the Madison aquifer in northeastern Wyoming rose in six wells and declined in one well from water year 1994 to water year 1995, ranging from about +6.9 ft to -28 ft. From water year 1993 to water year 1995, water levels in wells in the Madison aquifer rose in four wells and declined in three wells, ranging from about +16 ft to -4.4 ft.

Hydrographs for representative observation wells in southeastern Wyoming are shown in figure 4. The location of all wells in the network, hydrographs, and select ground-water level statistics are published in separate reports. The most recent report "Ground-Water Levels in Wyoming, 1984 through September 1993," U.S. Geological Survey Open-File Report 94-466 by H.I. Kennedy and S.L. Green is available for inspection at the USGS in Cheyenne, Wyoming.

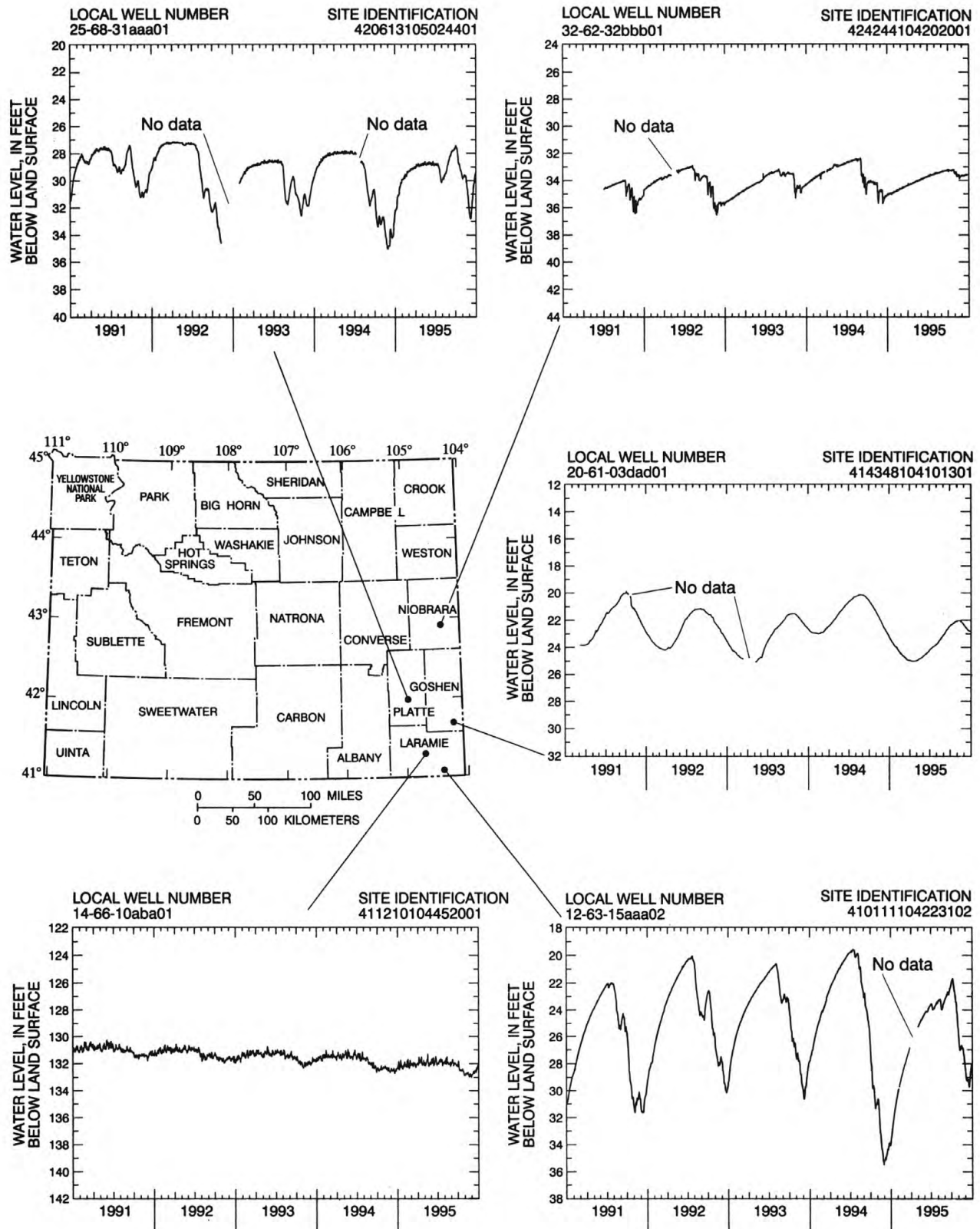


Figure 4. Water-level hydrographs for observation wells in areas of extensive ground-water withdrawals, October 1990 to September 1995.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 53 sites in small drainage basins around the country. The purpose of the network is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare with 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 national or regional water-quality planning and management. The 142 sites in NASQAN generally are 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 objective of NASQAN is to obtain data on the quality and quantity of water moving within and out of the United States using a systematic and uniform process of data collection, summarization, analysis, and reporting. Such data may be used for: description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs; detection of changes or trends with time in the pattern of occurrence of water-quality characteristics; and providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

NASQAN was redesigned in 1995 and will be known as NASQAN II beginning in 1996. NASQAN II will focus on four of the largest river basins in the Nation--the Mississippi, Columbia, Colorado, and Rio Grande Basins. The objective of NASQAN II is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. These data will be used to (1) describe the long-term trends and changes in concentration and transport of these constituents; (2) test findings of the National Water-Quality Assessment Program (NAWQA); (3) characterize processes unique to large-river systems such as storage and remobilization of sediments and associated contaminants; and (4) refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

The National 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 spatial and temporal, of the composition of atmospheric deposition, which includes snow, rain, dust particles, aerosols, and gases. The network 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 about 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 within 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 data also are obtained at a number of precipitation stations. The purpose of collecting tritium data at precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for water year 1995, which began October 1, 1994, and ended September 30, 1995. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The locations of the stations and wells where the data were collected are shown in figure 1. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station in this report, whether a stream site or well, in this report is assigned a unique identification number. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. Generally, the "downstream-order" system is used for regular surface-water stations, the "latitude-longitude" system is used for wells and, in Wyoming, for surface-water stations where only infrequent measurements are made.

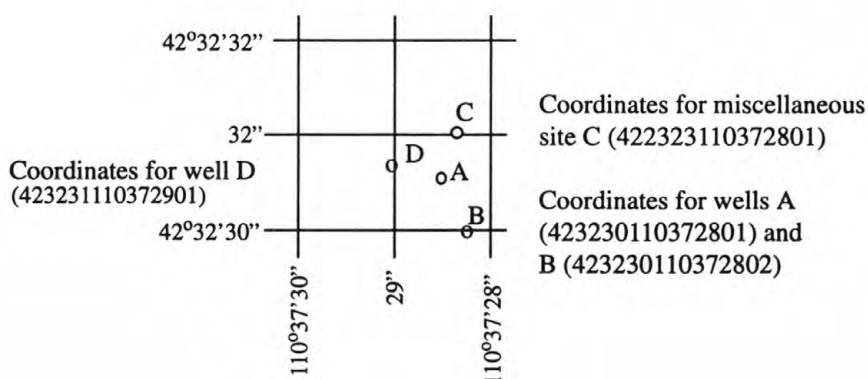
Downstream-Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned in to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of all types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station, such as 06642000, which appears just to the left of the station name, includes the two-digit Part number "06" plus the six-digit downstream-order number "642000." The Part number designates the major river basin; for example, Part "06" is the Missouri River basin.

Latitude-Longitude System

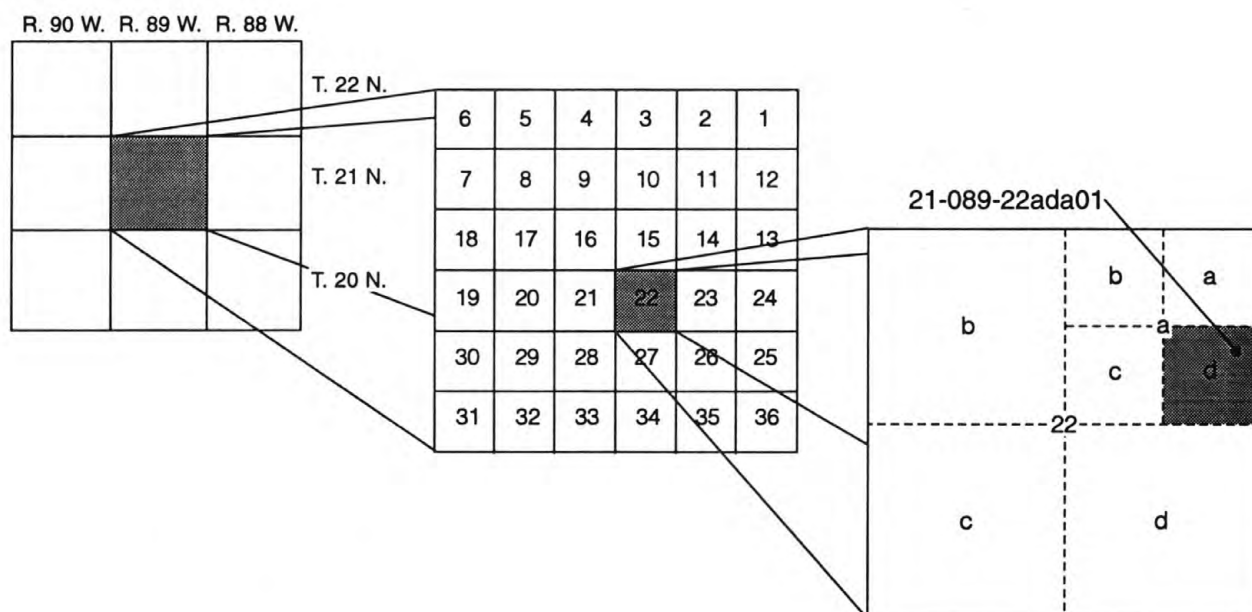
The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of north latitude, the next seven digits denote degrees, minutes,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



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

To compare data for wells in other publications, such as the county ground-water studies, the wells in this report also are numbered according to a system based on the location in the public land classification of the U.S. Bureau of Land Management. The system is illustrated in the following figure. The first numeral denotes the township north of a base line, the second numeral denotes the range west of the fifth principal meridian, and the third numeral denotes the section in which the well is located. The letters a, b, c, and d designate respectively, the northeast, northwest, southwest, and southeast quarter section, quarter-quarter section, and quarter-quarter-quarter section. For example, well 21-089-22ada01 is in the NE1/4 SE1/4 NE1/4 sec.22, T.21 N., R.089 W. Consecutive terminal numbers are added if more than one well is recorded within a 10-acre tract.

For a small irregularly-shaped area in west central Wyoming, the well or miscellaneous site numbers are based on the Wind River Meridian and Base Line system. The upper-case letter that begins the number designates the quadrant of the system. The quadrants are lettered A, B, C, and D in a counter-clockwise direction beginning with A in the northeast quadrant. Otherwise, the well numbers are the same as given in the preceding paragraph.



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

Records of Stage and Water Discharge

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

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles. Records of miscellaneous discharge measurements or of measurements from special studies may be considered as partial records, but they are presented separately in this report. Location of all complete-record stations for which data are given in this report are shown in figure 1.

Data Collection and Computation

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

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adopted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigation, Book 3, Chapter A6.

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

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

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

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

For some gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so incorrect 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 from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in sections "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

Streamflow data in this report are presented in a format 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 reformatting 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) consist of four parts: the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station manuscript

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

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages 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 National Geodetic Vertical Datum of 1939 (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 also is 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 ever were revised after the station was discontinued. Of course, if the data for a discontinued station were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

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

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, AND EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph. 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 streamgaging 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 also are given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

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

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

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

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

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

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

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

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

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

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

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

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

Inches (INCHES) indicates the depth to which the drainage area would be covered if all 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.

Identifying Estimated Daily Discharge

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

Accuracy of the Records

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

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

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for more than 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. No rounding rules apply to discharges listed for partial-record stations and miscellaneous sites. Listed discharges are those actually computed.

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

Other Records Available

Records of daily diversions of water from streams by canals are collected by and published in Hydrographers Annual Reports of the Wyoming Board of Control. Included are discharge records for streams and storage records for reservoirs not published in reports of the Geological Survey.

The National Water Data Exchange (NAWDEx), U.S. Geological Survey, Reston, VA 22092, maintains an index of records of discharge collected by other agencies but not published by the Geological Survey. Information on records at specific sites can be obtained from that office upon request.

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables is on file in the Wyoming district office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained at the address given on the back of the title page of this report.

Records of Surface-Water Quality

Records of surface-water quality in this report represent a variety of data types and measurement frequencies. Whenever possible, records of surface-water quality are obtained at or near streamgaging stations because interpretation of surface-water quality and seasonal variation is enhanced by knowledge of corresponding discharge data. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 1.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where water-quality data are collected systematically over a period of years, but frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location where samples are collected one time or intermittently to provide better areal coverage for defining water-quality conditions over a broad area in a river basin.

A careful distinction needs to be made between "continuing records", as used in reference to data for continuing-record stations, and "continuous record," which refers to a continuous graph over time or a series of discrete values recorded at short time intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, most water-quality data are obtained on a monthly or less frequent basis.

Onsite Measurements and Sample Collection

When obtaining water-quality data, a major concern is assuring that onsite water-quality measurements and the samples collected for laboratory analysis are representative of the actual quality of the water. Measurements such as water temperature, pH, and dissolved oxygen are made onsite when the samples are collected because of the potential for significant change with time. To assure that measurements made in the laboratory also represent the actual environmental concentrations of constituents, prescribed procedures need to be followed in collection and processing of samples. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," (TWRI) Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed under "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS" which appears at the end of the introductory text. Also, detailed information on collecting, treating, and shipping samples may be obtained from other references and from the Wyoming district office.

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

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 a 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 water-quality stations equipped with electronic monitors and digital recorders, the record consists of a daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records of the individual hourly values (unit values) may be obtained from the Wyoming district office whose address is given on the back of the title page of this report.

Water Temperature

Water temperatures are measured at water-quality stations at the time of sampling. In addition, water temperatures are taken at the time of discharge measurements for streamgaging stations. For stations where water temperatures are measured manually once daily, the water temperatures are taken at about the same time each day for consistency in the record. Deep streams commonly have a small diurnal temperature change, whereas shallow streams may have a daily range of several degrees, which closely follows the changes in air temperature. The water temperature in some streams may be affected by industrial discharges of warm water.

For stations where recording instruments are used, the record consisting of either daily mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements and those taken manually once-daily are on file in the Wyoming district office.

Sediment

Suspended-sediment concentrations are determined from samples collected using depth-integrating samplers. Samples usually are obtained from several verticals in the cross section. At daily sediment stations, daily samples may be obtained from a single vertical and a coefficient applied to determine the mean concentration in the cross section. Daily mean suspended-sediment concentrations are computed using sample concentrations and the continuous streamflow

record according to the methods described in TWRI Book 3, Chap. C3. Daily suspended-sediment discharge then is computed as the product of stream discharge times the daily mean concentration times a unit conversion factor of .0027.

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

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

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

Laboratory Analyses

Samples for indicator bacteria are analyzed locally. Suspended-sediment samples are analyzed at the U.S. Geological Survey laboratory in Helena, Montana. All other samples are analyzed at the Geological Survey National Water-Quality Laboratory in Arvada, Colorado. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1 and C3. Methods used by the National Water-Quality Laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

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 have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989.

New protocols have been established by the U.S. Geological Survey for the collection and processing of surface-water samples that are analyzed for dissolved inorganic constituents¹. These protocols are designed to produce trace-element data that are free of potential contamination associated with sample collection and filtration procedures. Because of the very low concentrations of some trace constituents in the environment, special precautions are necessary to protect the sample from the introduction of trace constituents during processing that could lead to a positive bias in reported concentrations. The protocols have been tested to assure reliable results at the microgram per liter (parts per billion) level. Dissolved trace-element data published prior to implementation of the protocols in 1994 may have a potential positive bias ranging from negligible to several micrograms per liter, depending on the procedures and sampling equipment used at the site.

Presentation of Water-Quality Records

Water-quality records collected at a streamgaging station are published immediately following the daily discharge record. Station number and name are the same for both records. Where a daily discharge record is not available or where the location of the water quality station differs significantly from that of the nearby streamgaging station, the water-quality record is published with its own station number and name in the standard downstream-order sequence.

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

¹. Horowitz, A.J., Demas, C.R., Fitzgerald, K.K., Miller, T.L., and Rickert, D.A., 1994, U.S. Geological Survey Protocol for the Collection and Processing of Surface-Water Samples for the Subsequent Determination of Inorganic Constituents in Filtered Water: U.S. Geological Survey Open-File Report 94-539, 57 p.

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

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

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

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

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

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

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

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

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

Remark Codes

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

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptable range (non-ideal colony count)

Change in National Trends Network Procedures

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

Records of Ground-Water Levels

Only selected water-level data from Wyoming's network of observation wells are given in this report. These data are intended to provide a sampling and historical record of water-level changes in the more important aquifers. Locations of the observation wells in this network in Wyoming are shown in figure 1.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears to the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number derived from the township-range location of the well.

Water-level records are obtained from direct measurements using a steel tape or from the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

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

Publications

Publication of ground-water level data for the United States in water-supply papers was begun by the U.S. Geological Survey in 1935. From 1935 through 1939, a single water-supply paper for each year covering the entire nation was issued (Water-Supply Papers---777, 817, 840, 845, and 886). From 1940 through 1974, separate water-supply papers were issued for 6 sections of the United States. Information about reports and other data on ground water in Wyoming may be obtained from the Wyoming district office, at the address given on the back of the title page.

ACCESS TO WATSTORE DATA

The U.S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the U.S. Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- Station Header File - Contains descriptive information on over 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 over 220 million daily values of streamflows, 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 Data Base - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radiochemical characteristics of both surface and ground water.
- *Ground-Water Site Inventory (GWSI) Data Base - Contains inventory data for over 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.

In 1976, the U.S. Geological Survey provide the public with direct access to WATSTORE. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requestor will be expected to pay all computer costs incurred. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, Virginia 22093

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District offices. (See address on the back of the title page.)

DEFINITION OF TERMS

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

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

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 formed into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

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

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

Non-ideal colony count (K) is a remark code used in reporting bacteria densities when plate counts fall outside of an ideal range. The lower limit of 20 colonies is set as the number below which statistically valid results become increasingly questionable. The upper limit, which differs according to type of bacteria, represents numbers above which interference from colony crowding, deposition of extraneous material, and other factors appear to result in increasingly questionable results.

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

Bottom material: See Bed material.

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

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

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

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

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.

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

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.)

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

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

Dissolved refers to that material in a representative water sample which passes through a 0.45 micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determination 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 0.493 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 from 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 otherwise specified.

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

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

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

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate (CaCO₃).

Hydrologic Bench-Mark Network is a network of approximately 60 sites in small drainage basins around the country. The purpose of the network is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare with conditions observed in basins more obviously affected by the activities of man.

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

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

Less than (<) is a remark code indicating that the analyzed value was found to be less than the numeric value listed. The value associated with the "<" remark indicates the detection limit of the applied laboratory.

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.

Micrograms per gram (UG/G, $\mu\text{g/g}$) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per liter (UG/L, $\mu\text{g/L}$) 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.

Microsiemens per centimeter at 25 degrees Celsius (US/CM, $\mu\text{S/cm}$) is a unit for reporting specific electrical conductance.

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.

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

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 national or regional water-quality planning and management. The 284 sites in NASQAN generally are 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 objective of NASQAN is to obtain data 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 data may be used for: description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs; detection of changes or trends with time in the pattern of occurrence of water-quality characteristics; and a nationally consistent data base useful for water-quality assessment and hydrologic research.

National Water-Quality Assessment Program (NAWQA) is a nationwide program that was started by the U.S. Geological Survey in 1991. The long term goals of the NAWQA program are to describe the status and trends in the quality of a large, representative part of the Nation's surface-water, and ground-water resources and to provide a sound, scientific understanding of the primary natural and human factors affecting the quality of these resources. The principal building blocks of the NAWQA program are the study-unit investigations on which national-level assessments are based. Study-unit investigations are comprehensive and include information on water, sediment, biota, and aquatic and terrestrial habitats within its boundaries.

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

Organism is any living entity.

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

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a 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 all diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

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

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
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 matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

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

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

pH indicates the degree of acidity or alkalinity of water and is expressed in logarithmic units. The pH value of a solution is the negative logarithm of the hydrogen-ion concentration, in moles per liter.

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

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 within the conterminous United States.

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

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

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

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

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

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

Suspended-sediment discharge (tons/day) is the rate at which a quantity of sediment, as measured by dry mass or volume, passes a stream section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft³/s) x 0.0027.

Suspended-sediment load is a general term that refers to the total mass of material in suspension. It is not synonymous with sediment discharge, which is a rate of transport.

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 to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 degrees Celsius. 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 60 to 65 percent of the specific conductance (in microsiemens per centimeter). This relation is not constant from stream to stream, and may vary in the same source with changes in the composition of the water.

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

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

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 in acres. In localities not covered by topographic maps, the areas are computed from the best maps available. All areas shown are those for the stage when the map was made.

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

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

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

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

of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

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

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

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

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

Total is the 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" indicates both that the sample consists of a water-suspended sediment mixture and that the analytical method determined all of the constituent in the sample.)

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

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

Total load (tons) is the 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.

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

Turbidity of a sample is the reduction of transparency because of the presence of particulate matter. In this report it is expressed in Nephelometric turbidity units (NTU), obtained from the nephelometric method for turbidity determination which measures the intensity of light scattered by suspended particles at 90 degrees from the path of an incident light source.

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

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through the following 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, 1990, is called "water year 1990."

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 abbreviating for "Water-Supply Paper" in reference to previously published reports.

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 publications 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 here 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."

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- 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.
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- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
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- 3-A12. *Fluorometric procedures for dye tracing, Revised*, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 41 pages.
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- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15, 1984. 48 pages.
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- 3-A19. *Levels of streamflow gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 31 pages.
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- 3-B4. *Regression modeling of ground-water flow*, by R. L. Cooley and R. L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.
- 3-B4. *Supplement 1. Regression modeling of ground-water flow - Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems*, by R. L. Cooley: USGS--TWRI Book 3, Chapter B4. 1993. 8 pages.
- 3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction*, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
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- 6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Descriptions and User's Manual*, by L. J. Torak: USGS--TWRI Book 6, Chapter A3. 1993. 136 pages.
- 6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions*, by R. L. Cooley: USGS--TWRI Book 6, Chapter A4. 1992. 108 pages.
- 6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details*, by L. J. Torak: USGS--TWRI Book 6, Chapter A5. 1993. 243 pages.
- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

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- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

06037500 MADISON RIVER NEAR WEST YELLOWSTONE, MT

LOCATION.--Lat 44°39'25", long 111°04'03", in NE¹/₄ NW¹/₄ SW¹/₄ sec.36, T.13 S., R.5 E., Gallatin County, Hydrologic Unit 10020007, Yellowstone National Park, on left bank 0.7 mi downstream of Montana-Wyoming stateline, 1.5 mi east of West Yellowstone, 16.4 mi downstream from Gibbon River, and at river mile 132.7.

DRAINAGE AREA.--420 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1913 to December 1917, July 1918 to October 1921, June 1922 to September 1973, August 1983 to September 1986, October 1988 to current year. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Elevation of gage is 6,650 ft above sea level, from topographic map. Prior to Oct. 20, 1918, nonrecording gage, and Oct. 20, 1918 to June 29, 1930, nonrecording gage or water-stage recorder at sites 2.5 mi upstream at different datums. Supplementary nonrecording gage at site 0.3 mi downstream at different datum used at time during 1927-30.

REMARKS.--Records good. No regulation or diversions upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	DAILY MEAN VALUES										
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	SEP
1	407	403	421	351	429	405	462	586	1390	682	424
2	445	404	436	e340	449	404	468	595	1430	671	423
3	449	383	452	e350	422	425	463	609	1560	802	425
4	416	387	475	e350	432	423	477	589	1640	793	439
5	446	400	452	e370	431	428	540	621	1590	676	452
6	512	419	449	e410	427	424	607	753	1650	640	435
7	448	422	432	433	426	418	677	682	1330	648	428
8	418	399	400	431	425	420	651	708	1100	618	431
9	412	401	433	443	420	424	570	756	1050	601	424
10	406	416	383	447	426	444	524	794	1010	596	423
11	407	408	445	454	384	711	507	887	909	618	428
12	416	421	433	437	e390	753	508	982	959	631	422
13	403	411	435	434	400	575	535	977	1030	669	421
14	431	387	425	445	428	529	648	841	1040	584	423
15	497	385	422	457	410	530	578	919	1030	553	422
16	438	420	424	441	408	542	546	1170	979	549	418
17	424	413	432	432	415	502	543	1300	928	526	419
18	417	399	443	427	428	497	543	1280	885	514	423
19	408	390	440	429	415	534	542	1290	949	504	430
20	404	406	431	424	427	500	555	1350	991	532	448
21	409	400	424	407	453	538	538	1410	859	528	430
22	412	378	418	415	441	515	543	1360	833	595	427
23	406	e390	424	397	432	478	550	1170	795	547	428
24	398	405	433	e400	434	483	548	1180	752	509	426
25	392	410	444	419	441	471	595	1170	739	496	431
26	394	406	437	423	446	449	578	1200	738	480	431
27	395	405	433	426	437	449	575	1090	754	466	436
28	405	403	437	421	420	444	623	977	859	458	433
29	392	402	441	411	---	439	616	1040	763	454	434
30	381	407	418	415	---	449	638	1160	701	468	441
31	388	---	384	426	---	457	---	1270	---	464	---
TOTAL	12976	12080	13356	12865	11896	15060	16748	30716	31243	17872	12875
MEAN	419	403	431	415	425	486	558	991	1041	577	429
MAX	512	422	475	457	453	753	677	1410	1650	802	452
MIN	381	378	383	340	384	404	462	586	701	454	418
AC-FT	25740	23960	26490	25520	23600	29870	33220	60930	61970	35450	25540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1995, BY WATER YEAR (WY)*

MEAN	427	417	408	397	393	400	490	824	799	492	426	420
MAX	710	697	568	582	572	539	671	1212	1415	917	759	704
(WY)	1914	1914	1914	1914	1914	1917	1925	1956	1971	1913	1913	1913
MIN	297	297	304	304	303	313	369	388	341	282	273	282
(WY)	1935	1932	1932	1932	1932	1943	1941	1934	1931	1931	1934	1934

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1913 - 1995*
ANNUAL TOTAL	170122	201405	--
ANNUAL MEAN	466	552	490
HIGHEST ANNUAL MEAN	--	--	664
LOWEST ANNUAL MEAN	--	--	337
HIGHEST DAILY MEAN	1090	1650	2150
LOWEST DAILY MEAN	339	340	245
ANNUAL SEVEN-DAY MINIMUM	342	365	267
INSTANTANEOUS PEAK FLOW	--	1720	2340b
INSTANTANEOUS PEAK STAGE	--	3.05	10.00c
INSTANTANEOUS LOW FLOW	--	326a	100d
ANNUAL RUNOFF (AC-FT)	337400	399500	354700
10 PERCENT EXCEEDS	691	923	733
50 PERCENT EXCEEDS	418	441	426
90 PERCENT EXCEEDS	364	404	335

* During periods of operation (June 1913 to December 1917, July 1918 to October 1921, June 1922 to September 1973, August 1983 to September 1986, October 1988 to current year).

a Gage height, 1.74 ft.

b Gage height, 3.56 ft.

c About; backwater from ice.

d Result of freezeup.

e Estimated.

06037500 MADISON RIVER NEAR WEST YELLOWSTONE, MT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983-86, 1989 to current year.

REMARKS.--Unpublished records for many days of instantaneous water temperature and specific conductance are available in files of the Montana District office.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1983 to July 1986.

WATER TEMPERATURE: July 1983 to July 1986.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (water years 1983-86): Maximum, 558 microsiemens per centimeter ($\mu\text{S}/\text{cm}$) at 25.0°C, Mar. 24, 25, 1986; minimum, 78 microsiemens per centimeter ($\mu\text{S}/\text{cm}$) at 25.0°C, May 30, 1986.

WATER TEMPERATURE (water years 1983-86): Maximum, 25.5°C, Aug. 6, 9, 1983; minimum, 0.0°C, on many days during winter periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED OF (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION) (00301)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)
OCT 1994									
13...	1000	408	498	9.0	10.5	603	9.0	102	8.2
JAN 1995									
10...	1330	447	522	3.0	9.0	--	--	--	7.7
APR									
05...	1230	531	497	8.0	13.0	595	9.7	119	8.0
JUN									
06...	0900	1710	176	5.0	11.0	593	8.4	98	7.8
AUG									
08...	1645	463	407	18.0	19.5	604	7.3	101	7.9

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 1994								
13...	64	340	340	880	670	2	2.2	97
JAN 1995								
10...	69	370	330	860	700	22	27	89
APR								
05...	64	340	320	810	690	14	20	91
JUN								
06...	19	120	120	280	200	46	212	63
AUG								
08...	47	270	270	570	540	3	3.8	90

06043500 GALLATIN RIVER NEAR GALLATIN GATEWAY, MT

LOCATION.--Lat 45°29'51", long 111°16'11" in SE¹/₄ SE¹/₄ SE¹/₄ sec.7, T.4 S., R.4 E., Gallatin County, Hydrologic Unit 10020008, on left bank 0.3 mi downstream from Spanish Creek, 7.3 mi south of Gallatin Gateway and at river mile 47.7.

DRAINAGE AREA.--825 mi².

PERIOD OF RECORD.--August 1889 to September 1894, June 1930 to September 1969, annual maximum, water years 1970-71, October 1971 to September 1981, October 1984 to current year. Monthly discharge only for some periods, published in WSP 1309. Published as West Gallatin River near Bozeman 1889-94.

REVISED RECORDS.--WSP 1389: 1892(M), 1893-94. WSP 1559: Drainage area. WDR MT-85-1 (M).

GAGE.--Water-stage recorder. Datum of gage is 5,167.67 ft above sea level. Prior to Oct. 20, 1932, nonrecording gages at several different sites and datums within 0.8 mi of present site.

REMARKS.--Records good. Diversions for irrigation of about 1,400 acres upstream from station. U.S. Geological Survey satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	370	392	323	231	316	278	338	476	3990	3210	1090	617
2	432	343	322	e220	322	271	366	495	4380	3330	1030	603
3	418	297	306	e210	297	312	351	522	4940	3680	1000	594
4	393	284	303	e200	294	331	380	545	5770	3690	990	687
5	428	351	283	e220	313	328	432	606	5840	3330	954	674
6	548	372	272	e250	308	310	452	865	6670	3330	917	651
7	450	376	285	308	312	293	534	839	5030	3410	885	615
8	414	298	240	320	310	296	536	860	4020	3540	1070	619
9	401	339	238	316	301	315	481	967	3370	3450	976	620
10	396	370	227	306	291	345	435	1080	2930	3920	885	597
11	405	355	e230	306	247	447	412	1270	2940	3680	851	609
12	442	372	e240	297	233	489	432	1520	3810	3430	816	577
13	416	367	e250	294	e230	410	477	1450	5170	3270	790	561
14	418	307	e260	299	e240	365	595	1250	5790	2730	771	555
15	473	306	278	305	e260	374	510	1370	6000	2450	750	542
16	430	342	295	303	284	404	488	1820	5620	2270	734	534
17	417	338	305	295	290	367	480	1990	5370	2120	740	528
18	423	280	292	289	291	365	469	2220	4860	2020	778	532
19	408	233	293	290	294	394	466	2460	4620	2070	727	537
20	403	286	278	275	317	357	474	2670	3880	2050	697	596
21	408	251	274	262	326	388	484	2840	3520	1930	691	557
22	397	219	272	257	318	361	470	2860	3310	1850	730	544
23	384	268	265	274	313	349	469	2460	3030	1710	724	543
24	373	303	281	274	324	396	463	2400	3070	1600	784	528
25	365	323	294	298	342	333	502	2290	3410	1510	858	521
26	373	318	303	308	356	311	473	2140	3890	1440	837	514
27	391	286	307	311	349	317	485	1910	4880	2040	728	509
28	441	296	309	304	312	324	527	1780	4620	1290	686	511
29	384	281	314	285	---	307	510	2060	3610	1230	657	508
30	329	298	294	291	---	322	503	2650	3220	1300	640	521
31	377	---	244	296	---	333	---	3290	---	1170	629	---
TOTAL	12707	9451	8677	8694	8390	10792	13994	51955	131560	78050	25415	17104
MEAN	410	315	280	280	300	348	466	1676	4385	2518	820	570
MAX	548	392	323	320	356	489	595	3290	6670	3920	1090	687
MIN	329	219	227	200	230	271	338	476	2930	1170	629	508
AC-FT	25200	18750	17210	17240	16640	21410	27760	103100	260900	154800	50410	33930

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1889 - 1995, BY WATER YEAR (WY)*

	MEAN	455	382	322	306	304	310	502	1785	2919	1298	611	493
MAX	743	589	549	468	430	465	899	3135	5056	3669	1162	787	
(WY)	1893	1960	1893	1893	1893	1960	1990	1976	1974	1975	1993	1968	
MIN	238	247	214	200	220	206	263	873	643	345	269	233	
(WY)	1932	1937	1935	1931	1935	1935	1937	1953	1934	1934	1934	1931	

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1889 - 1995*
ANNUAL TOTAL	239613	376789	--
ANNUAL MEAN	656	1032	810
HIGHEST ANNUAL MEAN	--	--	1184
LOWEST ANNUAL MEAN	--	--	408
HIGHEST DAILY MEAN	3770	May 13 6670	Jun 6 8970
LOWEST DAILY MEAN	219	Nov 22 200	Jan 4 174
ANNUAL SEVEN-DAY MINIMUM	241	Dec 8 225	Dec 31 182
INSTANTANEOUS PEAK FLOW	--	7330	Jun 6 9100
INSTANTANEOUS PEAK STAGE	--	6.31	Jun 6 7.38
INSTANTANEOUS LOW FLOW	--	a187	Nov 22 b117
ANNUAL RUNOFF (AC-FT)	475300	747400	586800
10 PERCENT EXCEEDS	1670	3300	2030
50 PERCENT EXCEEDS	378	435	430
90 PERCENT EXCEEDS	302	279	268

* During periods of operation (August 1889 to 1894, June 30 to September 1969, October 1971 to September 1981, October 1984 to current year).

a Gage height, 1.00 ft.

b Gage height, 0.68 ft, result of freezeup.

e Estimated.

06186500 YELLOWSTONE RIVER AT YELLOWSTONE LAKE OUTLET, YELLOWSTONE NATIONAL PARK

LOCATION.--Lat 44°34'03", long 110°22'48", Yellowstone National Park, Hydrologic Unit 10070001, on left bank 450 ft downstream from Fishing Bridge, 0.3 mi downstream from outlet of Yellowstone Lake, and at river mile 616.4.

DRAINAGE AREA.--1,006 mi².

PERIOD OF RECORD.--December 1922 to September 1982, October 1983 to September 1986, October 1988 to current year. Prior to October 1926, gage heights only. Monthly discharge only for winter periods in water years 1927-30, 1932-33, 1935-38, 1940, 1942-46 published in WSP 1309; figures of daily discharge for these months published in WSP 646, 666, 686, 701, 731, 746, 786, 806, 826, 856, 896, 956, 976, 1006, 1036, and 1056, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1309: See PERIOD OF RECORD. WSP 1729: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7,729.58 ft above sea level. Prior to Oct. 2, 1928, nonrecording gage at site 450 ft upstream at datum 1.07 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. No artificial regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	461	392	e270	e250	e300	e390	498	562	1680	5040	4030	1970
2	468	381	e270	e250	e300	e390	499	567	1810	5080	3920	1940
3	467	378	e270	e250	e300	e400	495	572	1990	5210	3810	1910
4	465	378	e270	e250	e310	e400	494	571	2190	5330	3710	1880
5	462	371	e270	e250	e310	e400	491	569	2390	5380	3640	1850
6	471	376	e260	e260	e310	e410	494	579	2670	5380	3540	1810
7	470	e370	e260	e260	e320	e410	497	579	2880	5390	3450	1780
8	470	e370	e260	e260	e320	e420	503	578	2990	5420	3410	1740
9	465	e370	e260	e260	e320	e420	504	584	3060	5470	3320	1690
10	462	e360	e260	e260	e330	e420	501	591	3100	5530	3230	1660
11	455	e360	e260	e270	e330	e430	501	602	3130	5620	3170	1610
12	448	e350	e260	e270	e330	e430	503	617	3200	5680	3070	1580
13	440	e350	e260	e270	e330	e440	499	626	3320	5730	3000	1540
14	442	e340	e260	e270	e340	e440	499	643	3520	5690	2910	1520
15	450	e340	e260	e270	e340	e450	498	660	3750	5620	2830	1490
16	438	e340	e250	e280	e340	e450	498	686	4000	5560	2750	1450
17	440	e330	e250	e280	e350	e460	497	728	4180	5470	2710	1420
18	440	e330	e250	e280	e350	e470	494	782	4350	5390	2660	1400
19	441	e320	e250	e280	e350	e480	494	837	4500	5290	2590	1380
20	436	e320	e250	e280	e360	481	497	899	4590	5210	2520	1330
21	430	e310	e250	e280	e360	501	493	972	4670	5120	2470	1310
22	425	e310	e250	e280	e360	513	492	1060	4710	5060	2420	1290
23	418	e300	e250	e280	e370	507	493	1120	4750	5020	2370	1250
24	411	e300	e250	e280	e370	511	493	1180	4740	4900	2350	1220
25	411	e290	e250	e280	e370	510	509	1220	4770	4810	2320	1200
26	409	e290	e250	e290	e380	510	519	1280	4810	4700	2300	1180
27	411	e280	e250	e290	e380	505	517	1350	4900	4580	2240	1170
28	394	e280	e250	e290	e380	502	524	1390	4980	4450	2190	1140
29	389	e270	e250	e290	---	501	541	1430	5030	4330	2150	1120
30	385	e270	e250	e290	---	498	562	1480	5040	4240	2090	1110
31	379	---	e250	e290	---	500	---	1570	---	4130	2030	---
TOTAL	13553	10026	7950	8440	9510	14149	15099	26884	111700	159830	89200	44940
MEAN	437	334	256	272	340	456	503	867	3723	5156	2877	1498
MAX	471	392	270	290	380	513	562	1570	5040	5730	4030	1970
MIN	379	270	250	250	300	390	491	562	1680	4130	2030	1110
AC-FT	26880	19890	15770	16740	18860	28060	29950	53320	221600	317000	176900	89140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1995, BY WATER YEAR (WY)*

	MEAN	605	470	389	378	439	543	1131	3573	4009	2211	1212
MAX	1259	984	775	639	628	717	801	2194	6640	7160	4031	1954
(WY)	1973	1951	1951	1971	1971	1962	1952	1952	1956	1982	1982	1982
MIN	327	276	246	168	122	130	175	605	1707	1272	812	538
(WY)	1989	1989	1932	1989	1989	1935	1937	1953	1934	1934	1934	1934

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1927 - 1995*
ANNUAL TOTAL	318336	511281	--
ANNUAL MEAN	872	1401	1319
HIGHEST ANNUAL MEAN	--	--	1939
LOWEST ANNUAL MEAN	--	--	682
HIGHEST DAILY MEAN	3000	Jun 7	9120
LOWEST DAILY MEAN	250	Dec 16	a100
ANNUAL SEVEN-DAY MINIMUM	250	Dec 16	113
INSTANTANEOUS PEAK FLOW	--	5840	9170
INSTANTANEOUS PEAK STAGE	--	6.98	8.20
ANNUAL RUNOFF (AC-FT)	631400	1014000	955300
ANNUAL RUNOFF (CFSM)	.87	1.39	1.31
ANNUAL RUNOFF (INCHES)	11.77	18.91	17.81
10 PERCENT EXCEEDS	2360	4620	3450
50 PERCENT EXCEEDS	450	497	676
90 PERCENT EXCEEDS	290	266	330

* During periods of operation (October 1926 to September 1982, October 1983 to 1986, October 1988 to current year). a May have been less during periods of ice affect.

e Estimated.

06187950 SODA BUTTE CREEK NEAR LAMAR RANGER STATION, YELLOWSTONE NATIONAL PARK

LOCATION.--Lat 44°52'06", long 110°09'53", Yellowstone National Park, Hydrologic Unit 10070001, on left bank, 4 mi southeast of Lamar Ranger Station, and at river mile 1.5.

DRAINAGE AREA.--99.0 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,630 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges and those greater than 1,000 ft³/s, which are fair. No regulation or diversion upstream of station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	30	21	e14	22	e16	e23	44	720	559	163	75
2	42	25	21	e13	22	e15	e25	47	811	587	155	73
3	41	e22	21	e12	e20	e15	27	48	957	686	148	70
4	38	e23	e19	e12	e21	e16	30	51	984	587	148	78
5	41	25	20	e14	e21	e17	32	54	1240	555	143	93
6	50	26	21	e16	e20	e16	35	72	1810	606	136	79
7	45	25	e19	e18	e20	e18	37	72	928	670	130	74
8	41	e20	e16	20	e19	e20	35	78	663	666	148	83
9	39	e22	e17	20	e17	e22	33	82	556	649	125	81
10	37	24	e17	21	e15	23	30	91	462	667	117	74
11	37	23	e17	22	e13	25	32	113	509	673	113	76
12	36	25	e18	22	e13	25	33	131	712	588	107	68
13	36	25	e18	21	e14	23	37	124	996	528	102	66
14	38	e22	e18	e21	e14	23	39	113	1270	461	97	63
15	45	e20	e19	e21	e14	23	35	156	1330	402	93	61
16	41	21	e20	e20	e15	23	36	261	1170	367	91	60
17	40	22	e20	e18	e15	23	35	293	1050	356	108	59
18	40	e21	e19	e19	e16	22	37	295	865	353	109	60
19	39	e18	e19	e19	e16	24	40	321	744	344	96	62
20	38	19	e19	e18	e17	23	43	353	620	314	87	68
21	38	e18	e18	e17	e16	24	42	378	613	313	83	60
22	36	e17	e17	e16	e16	24	42	386	571	287	82	56
23	35	e17	e18	e15	e16	22	41	337	508	278	114	55
24	33	18	e19	e16	e16	22	41	334	504	262	111	54
25	31	18	e20	e19	e16	20	43	303	576	245	108	54
26	32	19	e20	21	e17	e19	42	289	661	235	122	53
27	34	19	e20	21	e17	e19	44	258	751	220	95	53
28	35	19	e20	21	e16	e19	47	263	735	217	88	52
29	31	19	e19	e20	---	e18	46	343	587	208	83	52
30	e26	20	e17	e21	---	e19	45	455	550	207	80	54
31	28	---	e16	22	---	e21	---	576	---	178	77	---
TOTAL	1159	642	583	570	474	639	1107	6721	24453	13268	3459	1966
MEAN	37.4	21.4	18.8	18.4	16.9	20.6	36.9	217	815	428	112	65.5
MAX	50	30	21	22	22	25	47	576	1810	686	163	93
MIN	26	17	16	12	13	15	23	44	462	178	77	52
AC-FT	2300	1270	1160	1130	940	1270	2200	13330	48500	26320	6860	3900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995
MEAN	41.5	30.4	23.6	23.1	21.4	23.1	70.8
MAX	50.5	38.7	27.9	26.3	25.8	31.0	127
(WY)	1993	1991	1991	1990	1992	1993	1995
MIN	27.8	21.4	16.0	16.7	16.9	20.1	32.3
(WY)	1989	1995	1989	1989	1995	1989	1993

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1989 - 1995
ANNUAL TOTAL	38628	55041	---
ANNUAL MEAN	106	151	144
HIGHEST ANNUAL MEAN	---	---	157
LOWEST ANNUAL MEAN	---	---	108
HIGHEST DAILY MEAN	940	1810	1810
LOWEST DAILY MEAN	16	12	12
ANNUAL SEVEN-DAY MINIMUM	17	14	13
INSTANTANEOUS PEAK FLOW	---	2300	2300
INSTANTANEOUS PEAK STAGE	---	5.64	5.64
INSTANTANEOUS LOW FLOW	---	---	11
ANNUAL RUNOFF (AC-FT)	76620	109200	104200
10 PERCENT EXCEEDS	324	557	493
50 PERCENT EXCEEDS	36	37	42
90 PERCENT EXCEEDS	19	17	20

a Also occurred Jan. 3, 1995, but may have been less during periods of ice effect.

e Estimated.

YELLOWSTONE RIVER BASIN

39

06188000 LAMAR RIVER NEAR TOWER FALLS RANGER STATION, YELLOWSTONE NATIONAL PARK

LOCATION.--Lat 44°55'40", long 110°23'35", Yellowstone National Park, Hydrologic Unit 10070001, on left bank 0.5 mi north of the Cooke City highway, 1.6 mi northeast of Tower Falls Ranger Station, 2.7 mi downstream from Slough Creek, and at river mile 0.5.

DRAINAGE AREA.--660 mi².

PERIOD OF RECORD.--September 1922, April 1923 to September 1969, May 1985 to September 1986 (seasonal records only), October 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,000 ft above sea level, from topographic map. Prior to Sept. 16, 1925, nonrecording gage and Sept. 16, 1925 to July 29, 1927, water-stage recorder at same site at datum 1.00 ft higher. July 29, 1927 to Sept. 30, 1969, water-stage recorder at same site and datum. May 1985 to September 1986, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. No regulation or diversion upstream of station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	137	e130	e95	e95	e70	145	464	6120	3280	656	262
2	139	e120	e130	e90	e95	e70	155	489	6640	3270	614	256
3	178	e110	e130	e85	e85	e75	160	529	7520	3790	579	247
4	158	e120	e120	e80	e90	e75	184	581	7440	3500	560	262
5	170	e130	e120	e85	e90	e75	279	767	8060	3130	544	326
6	241	e130	e120	e95	e90	e70	304	1380	11200	3210	511	302
7	247	e120	e110	e110	e85	e70	383	1340	6170	3350	480	261
8	190	e100	e100	e110	e85	e75	389	1550	4530	3390	528	269
9	166	e110	e110	e120	e80	e90	361	1530	3970	3120	524	293
10	155	e130	e100	e120	e70	e110	290	1810	3240	3100	450	260
11	149	e130	e100	e120	e60	e130	267	2360	3610	3100	438	265
12	145	e130	e110	e120	e60	e150	273	2600	5460	2770	408	245
13	145	e120	e110	e120	e65	e140	282	2150	7380	2430	379	228
14	148	e110	e100	e110	e70	e150	446	1670	8580	2070	360	219
15	200	e100	e100	e110	e70	e160	400	2340	8040	1780	345	210
16	217	e110	e110	e110	e70	e160	387	3870	6950	1610	332	203
17	198	e120	e110	e100	e75	e150	365	4110	6100	1480	365	198
18	206	e100	e110	e110	e80	e150	370	3910	5410	1450	402	199
19	194	e90	e110	e110	e85	e150	414	4150	4850	1430	383	206
20	178	e100	e110	e100	e90	e150	476	4420	4110	1440	331	241
21	170	e100	e100	e90	e90	e150	515	4510	4070	1290	308	224
22	168	e90	e100	e85	e85	e150	522	4290	3710	1210	308	201
23	158	e90	e100	e80	e80	139	547	3400	3250	1260	360	198
24	151	e100	e110	e80	e80	152	537	3430	3250	1080	437	193
25	138	e110	e120	e85	e80	129	550	3060	3700	1030	421	188
26	140	e120	e120	e95	e90	e120	492	2930	4130	941	561	185
27	152	e110	e120	e100	e85	e130	533	2440	4590	870	393	188
28	158	e110	e120	e95	e80	e130	625	2520	4590	830	333	188
29	150	e110	e110	e90	---	e120	568	3410	3650	778	304	183
30	116	e120	e100	e90	---	136	522	4430	3290	827	282	205
31	124	---	e100	e95	---	144	---	5370	---	725	272	---
TOTAL	5166	3377	3440	3085	2260	3770	11741	81810	163610	63541	13168	6905
MEAN	167	113	111	99.5	80.7	122	391	2639	5454	2050	425	230
MAX	247	137	130	120	95	160	625	5370	11200	3790	656	326
MIN	116	90	100	80	60	70	145	464	3240	725	272	183
AC-FT	10250	6700	6820	6120	4480	7480	23290	162300	324500	126000	26120	13700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1995, BY WATER YEAR (WY)*

	MEAN	214	156	119	105	100	108	446	2724	4122	1343	351	227
MAX	485	330	202	200	171	204	1684	6885	7834	3256	886	518	
(WY)	1942	1928	1951	1969	1969	1992	1990	1928	1927	1943	1968	1968	
MIN	109	88.1	75.5	71.8	70.0	67.9	105	969	1408	344	173	115	
(WY)	1989	1937	1953	1989	1942	1964	1945	1933	1934	1931	1940	1988	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1923 - 1995*
ANNUAL TOTAL	252967	361873	--
ANNUAL MEAN	693	991	841
HIGHEST ANNUAL MEAN	--	--	1287
LOWEST ANNUAL MEAN	--	--	525
HIGHEST DAILY MEAN	7490	11200	11900
LOWEST DAILY MEAN	80	60	45
ANNUAL SEVEN-DAY MINIMUM	86	66	57
INSTANTANEOUS PEAK FLOW	--	14000	14000
INSTANTANEOUS PEAK FLOW	--	9.95	9.95
INSTANTANEOUS LOW FLOW	--	--	a40
ANNUAL RUNOFF (AC-FT)	501800	717800	608900
10 PERCENT EXCEEDS	2610	3540	2900
50 PERCENT EXCEEDS	136	188	186
90 PERCENT EXCEEDS	95	90	90

* During periods of operation (September 1922, April 1923 to September 1969, May 1985 to September 1986 (seasonal record only), October 1988 to current year).

a Observed, but may have been less during periods of no gage-height record in winter.

e Estimated.

YELLOWSTONE RIVER BASIN

06190540 HOT RIVER AT MAMMOTH, YELLOWSTONE NATIONAL PARK

LOCATION.--Lat 44°59'07", long 110°41'18", Yellowstone National Park, Hydrologic Unit 10070001, on left bank, 50 ft downstream from outfall, 150 ft upstream of mouth, 0.8 mile northeast of U.S. Post Office at Mammoth, Yellowstone National Park.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1988 to September 1995 (discontinued). Miscellaneous measurements made at this site 1938-44, 1966-67, and 1986-87 water years.

GAGE.--Water-stage recorder. Datum of gage is 5,666.11 ft above sea level. Levels by U.S. National Park Service.

REMARKS.--Records good. No regulation or diversion upstream of station, however, flow is added from sinkholes upstream from spring.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	27	26	23	26	23	25	29	35	32	30	29
2	28	27	26	24	26	23	25	29	35	33	30	29
3	28	23	26	29	25	23	25	29	34	33	30	28
4	28	26	21	32	26	24	25	30	34	33	30	29
5	28	27	24	33	26	22	26	30	34	33	29	29
6	28	27	24	33	26	21	26	31	34	32	29	29
7	28	27	23	33	26	22	27	31	34	32	29	28
8	28	23	23	31	26	24	27	31	34	32	29	29
9	28	26	25	25	24	24	26	32	34	32	29	29
10	27	26	24	24	24	24	26	33	33	32	29	28
11	28	26	25	24	21	25	26	34	33	32	29	29
12	28	26	25	24	23	25	26	34	33	32	29	e29
13	28	26	25	24	25	25	26	34	33	32	29	e29
14	28	24	23	24	25	25	27	34	33	32	29	e29
15	28	23	25	24	26	26	27	35	33	31	29	e29
16	28	26	26	25	27	26	27	34	33	31	29	e29
17	28	25	26	24	26	26	27	33	33	30	29	e29
18	28	24	26	25	24	26	27	33	33	30	29	e29
19	28	22	26	26	23	26	27	33	33	31	29	e29
20	28	24	26	24	24	26	28	36	33	31	29	e29
21	28	21	25	22	24	26	28	35	32	30	29	e28
22	27	23	24	23	25	26	28	35	32	30	29	e28
23	27	25	25	24	25	26	28	35	32	30	29	e28
24	27	25	27	25	25	26	28	35	32	30	29	e28
25	27	25	27	25	25	26	28	35	32	30	29	e28
26	27	25	27	25	25	24	28	35	32	30	29	e28
27	27	24	27	24	25	24	29	34	32	30	29	e28
28	27	26	27	25	25	24	29	34	32	30	29	e28
29	27	24	26	24	---	24	29	34	32	30	29	e28
30	27	26	24	25	---	24	29	35	32	30	29	e28
31	27	---	23	25	---	25	---	35	---	30	29	---
TOTAL	857	749	777	798	698	761	810	1027	991	966	903	857
MEAN	27.6	25.0	25.1	25.7	24.9	24.5	27.0	33.1	33.0	31.2	29.1	28.6
MAX	28	27	27	33	27	26	29	36	35	33	30	29
MIN	27	21	21	22	21	21	25	29	32	30	29	28
AC-FT	1700	1490	1540	1580	1380	1510	1610	2040	1970	1920	1790	1700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995
MEAN	27.0	25.7	25.5	26.0	25.0	26.5	29.4
MAX	29.9	28.8	27.6	28.0	27.4	26.2	33.1
(WY)	1989	1989	1989	1989	1989	1989	1995
MIN	23.9	22.7	22.9	24.1	22.0	23.8	27.3
(WY)	1990	1990	1994	1990	1994	1990	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1989 - 1995
ANNUAL TOTAL	9445	10194	---
ANNUAL MEAN	25.9	27.9	26.8
HIGHEST ANNUAL MEAN	---	---	27.9
LOWEST ANNUAL MEAN	---	---	25.5
HIGHEST DAILY MEAN	29	Apr 20	36
LOWEST DAILY MEAN	20	Feb 8	21
ANNUAL SEVEN-DAY MINIMUM	21	Feb 7	23
INSTANTANEOUS PEAK FLOW	---	---	36
INSTANTANEOUS PEAK STAGE	---	---	1.45
INSTANTANEOUS LOW FLOW	---	---	a19
ANNUAL RUNOFF (AC-FT)	18730	20220	c17
10 PERCENT EXCEEDS	28	33	19390
50 PERCENT EXCEEDS	27	28	29
90 PERCENT EXCEEDS	23	24	27

a Gage height, 1.11 ft.

b Gage height, 1.45 ft.

c Many days.

e Estimated.

41

LOCATION.--Lat 44°59'33", long 110°41'26", Yellowstone National Park, Hydrologic Unit 10070001, on left bank at Wyoming-Montana state line, 400 ft upstream from highway bridge, 0.5 mi downstream from Hot River (formerly Boiling River), 1.5 mi north of Mammoth, and at river mile 2.9.

PERIOD OF RECORD.--October 1938 to September 1972, April 1984 to current year. Prior to October 1959, published as Gardiner River near Mammoth.

GAGE.--Water-stage recorder. Datum of gage is 5.623.97 ft above sea level (levels by National Park Service).

REMARKS.--Records good. No regulation or diversion upstream of station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	101	92	74	91	81	90	148	1110	589	255	168
2	111	97	90	81	91	76	91	156	1100	583	245	166
3	108	89	91	81	86	95	91	167	1280	637	240	164
4	104	93	89	83	89	90	96	178	1260	601	235	174
5	110	99	95	92	89	86	105	193	1270	551	227	184
6	116	102	94	95	88	86	122	220	1430	552	223	174
7	108	100	89	96	88	90	135	219	1010	571	217	172
8	106	89	75	96	89	91	131	248	846	579	227	178
9	104	102	92	98	86	89	118	277	750	563	218	170
10	105	102	85	101	87	94	115	335	669	570	212	167
11	106	98	90	94	58	123	111	412	661	577	208	175
12	106	99	101	91	78	110	112	443	785	603	203	165
13	104	100	100	91	88	99	123	398	1040	561	198	163
14	106	88	93	92	94	97	144	361	1200	485	195	159
15	114	85	94	94	87	100	135	472	1240	447	192	159
16	106	102	95	94	87	98	131	691	1140	422	189	157
17	105	97	94	89	89	95	129	737	1070	395	211	159
18	105	89	94	91	85	97	129	758	989	385	205	159
19	103	76	94	91	89	99	134	905	947	372	194	161
20	103	97	92	86	99	96	137	1010	776	381	187	170
21	103	83	89	68	93	100	138	1050	712	379	184	160
22	101	75	84	84	91	96	144	950	667	358	184	158
23	101	84	95	84	91	92	153	787	615	338	199	156
24	99	102	95	87	91	93	151	767	593	322	203	155
25	99	103	94	103	91	93	151	736	612	316	205	153
26	99	98	93	99	92	89	144	711	665	295	208	153
27	101	93	92	92	90	89	148	626	768	282	187	153
28	103	94	92	89	85	89	165	579	758	274	179	153
29	95	92	91	86	---	87	159	675	651	269	174	154
30	92	93	77	88	---	88	157	838	604	289	170	155
31	94	---	72	88	---	89	---	1020	---	269	169	---
TOTAL	3217	2822	2813	2778	2462	2897	3889	17067	27218	13815	6343	4894
MEAN	104	94.1	90.7	89.6	87.9	93.5	130	551	907	446	205	163
MAX	116	103	101	103	99	123	165	1050	1430	637	255	184
MIN	92	75	72	68	58	76	90	148	593	269	169	153
AC-F/T	6380	5600	5580	5510	4880	5750	7710	33850	53990	27400	12580	9710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1995, BY WATER YEAR (WY)												
MEAN	125	110	100	94.8	91.1	91.5	138	491	713	305	161	136
MAX	175	136	119	118	116	116	304	811	1354	662	236	190
(WY)	1969	1969	1972	1969	1969	1986	1990	1956	1971	1943	1943	1968
MIN	95.9	85.5	79.3	77.6	75.0	75.4	84.1	283	212	133	103	93.4
(WY)	1961	1940	1941	1941	1940	1942	1945	1960	1987	1988	1988	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1939 - 1995*	
ANNUAL TOTAL	58577		90215		--	
ANNUAL MEAN	160		247		213	
HIGHEST ANNUAL MEAN	--		--		313	
LOWEST ANNUAL MEAN	--		--		138	
HIGHEST DAILY MEAN	812	May 13	1430	Jun 6	1830	May 29 1956
LOWEST DAILY MEAN	70	Feb 17	58	Feb 11	53	Dec 15 1988
ANNUAL SEVEN-DAY MINIMUM	72	Feb 12	80	Dec 29	61	Feb 1 1989
INSTANTANEOUS PEAK FLOW	--	--	1650	Jun 6	b2080	Jun 4 1956
INSTANTANEOUS PEAK STAGE	--	--	4.54	Jun 6	4.83	May 22 1993
INSTANTANEOUS LOW FLOW	--	--	a46	Feb 11	c35	Mar 28 1942
ANNUAL RUNOFF (AC-FT)	116200	--	178900	--	154600	--
10 PERCENT EXCEEDS	351	--	668	--	514	--
50 PERCENT EXCEEDS	105	--	110	--	119	--
90 PERCENT EXCEEDS	89	--	88	--	87	--

* During period of operation (October 1938 to September 1972, April 1984 to current year).

a Gage height, 1.87 ft.

b Gage height, 4.46 ft.

c Gage height, 1.08 ft.

LOCATION.--Lat 45°06'43", long 110°47'37", in NW¹/₄ SE¹/₄ NW¹/₄ sec.30, T.8 S., R.8 E., Park County, Hydrologic Unit 100700002, on left bank 20 ft downstream from county road bridge at Corwin Springs, 1.3 mi upstream from Mol Heron Creek, 7 mi northwest of Gardiner, and at river mile 549.7.

PERIOD OF RECORD.--August 1889 to November 1893 (published as "at Horr"), September 1910 to current year. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 5,079.09 ft above sea level. Aug. 12, 1889, to Nov. 4, 1893, nonrecording gages at site 2 mi upstream at different datums. Sept. 2, 1910, to Apr. 19, 1935, nonrecording gages on bridge at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Natural storage in Yellowstone Lake. Diversions for irrigation of about 960 acres of which 40 acres lies downstream from station. U.S. Geological Survey satellite telemeter at station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	960	907	757	627	624	768	962	1490	12600	10700	5490	2770
2	1020	909	791	e600	639	746	996	1540	13300	10600	5310	2710
3	1090	821	803	e570	610	833	994	1620	15100	11500	5170	2660
4	1030	781	819	e550	632	863	1020	1700	15500	11300	5060	2700
5	1040	869	798	e580	654	867	1150	1900	16000	10600	4930	2750
6	1200	919	829	e620	658	797	1250	2630	20200	10700	4790	2660
7	1210	936	828	662	668	741	1390	2700	13800	10900	4670	2550
8	1100	847	740	698	685	828	1390	2960	11000	11000	4670	2550
9	1060	799	813	686	691	878	1320	3060	10100	10700	4650	2500
10	1040	949	771	678	724	908	1180	3450	9010	10700	4430	2420
11	1010	909	e760	653	646	1020	1150	4260	9190	10800	4340	2390
12	1000	908	756	640	e620	1110	1160	4850	12000	10500	4180	2310
13	982	911	764	635	e600	1030	1180	4390	15600	10100	4070	2250
14	972	813	742	640	e620	1000	1400	3580	17900	9300	3950	2190
15	1080	776	729	646	e680	1010	1360	4310	17900	8710	3840	2150
16	1080	850	732	631	708	1060	1310	6910	16500	8370	3740	2100
17	1030	915	731	616	715	1020	1280	7760	15200	8030	3780	2060
18	1040	805	731	607	706	1010	1270	7490	14000	7850	3780	2040
19	1030	688	729	616	723	1050	1310	8010	13200	7760	3660	2030
20	1000	806	725	613	763	1020	1380	8850	12000	7810	3490	2080
21	997	840	706	573	805	1020	1440	9230	11600	7490	3390	1990
22	1000	788	674	544	813	1020	1440	9020	11200	7320	3360	1950
23	969	817	676	595	808	963	1480	7300	10500	7300	3410	1940
24	950	828	706	624	824	1010	1470	7390	10300	6920	3530	1870
25	919	822	716	651	842	963	1520	6900	11100	6770	3500	1850
26	919	847	716	653	869	908	1450	6670	11700	6500	3710	1830
27	941	809	714	636	880	931	1480	5980	12800	6290	3330	1820
28	979	767	721	635	826	933	1630	5830	12900	6090	3130	1810
29	952	720	732	609	---	892	1620	7120	11300	5900	3020	1770
30	830	731	687	604	---	946	1600	9010	10600	5980	2930	1780
31	858	---	657	619	---	973	---	11100	---	5710	2850	---
TOTAL	31288	25087	23053	19311	20033	29118	39582	169010	394100	270200	124160	66480
MEAN	1009	836	744	623	715	939	1319	5452	13140	8716	4005	2216
MAX	1210	949	829	698	880	1110	1630	11100	20200	11500	5490	2770
MIN	830	688	657	544	600	741	962	1490	9010	5710	2850	17

MEAN	1524	1187	960	838	825	908	1529	5935	11300	6802	3188	1953
MAX	2429	2058	1424	1231	1176	1352	3542	13590	21230	13260	5688	3207
(WY)	1973	1928	1984	1984	1969	1986	1990	1928	1918	1982	1982	1968
MTN	781	702	551	448	411	412	576	2575	4245	2025	1319	938
(WY)	1989	1989	1937	1937	1937	1937	1937	1975	1934	1919	1919	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1889 - 1995*	
ANNUAL TOTAL	851050		1211422		--	
ANNUAL MEAN	2332		3319		3088	
HIGHEST ANNUAL MEAN	--		--		4346	1913
LOWEST ANNUAL MEAN	--		--		1903	1934
HIGHEST DAILY MEAN	14400	May 13	20200	Jun 6	32000	Jun 14 1918
LOWEST DAILY MEAN	657	Dec 31	544	Jan 22	380	Feb 5 1989
ANNUAL SEVEN-DAY MINIMUM	701	Dec 21	595	Jan 17	393	Feb 4 1937
INSTANTANEOUS PEAK FLOW	--		22100	Jun 6	b32000	Jun 14 1918
INSTANTANEOUS PEAK STAGE	--		8.95	Jun 6	11.50	Jun 14 1918
INSTANTANEOUS LOW FLOW	--		a535	Jan 21	c343	Feb 2 1989
ANNUAL RUNOFF (AC-FT)	1688000		2403000		2237000	
10 PERCENT EXCEEDS	6480		10600		8390	
50 PERCENT EXCEEDS	1000		1100		1400	
90 PERCENT EXCEEDS	736		656		756	

a Gage height, 0.46 ft.

b Observed, from rating curve extended above 18,000 ft³/s.

c Gage height, 0.12 ft, result of freezeup.

e Estimated.

YELLOWSTONE RIVER BASIN

43

06205450 CLARKS FORK YELLOWSTONE RIVER AT MONTANA-WYOMING STATE LINE, NEAR COOKE CITY, MT

LOCATION.--Lat 44°57'28", long 109°48'21", Park County, WY, Hydrologic Unit 10070006, Shoshone National Forest, at bridge on U.S. Highway 12, 300 ft upstream from Pilot Creek, 0.9 mi downstream from Rock Creek, 1.8 mi northwest of Crazy Creek Campground, and 7.5 mi southeast of Cooke City, MT.

PERIOD OF RECORD.--August 1975 to October 1977, November 1990 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (000061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (000095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (000400)	TEMPER-ATURE WATER (DEG C) (000010)	TEMPER-ATURE AIR (DEG C) (000020)	BARO-METRIC PRES-SURE (MM OF HG) (000025)	OXYGEN, DIS-SOLVED (MG/L) (000300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (000301)	HARD-NESS TOTAL (MG/L AS CACO3) (000900)	CALCIUM DIS-SOLVED (MG/L AS CA) (000915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (000925)
OCT 26...	1040	21	81	8.0	1.0	8.0	590	11.8	107	40	12	2.4
MAR 30...	0945	30	98	8.2	0.5	0.5	590	11.4	102	46	14	2.6
JUN 21...	1200	456	48	7.8	7.0	12.0	592	9.6	102	22	6.8	1.2
SEP 28...	0950	21	113	8.3	7.0	12.0	590	9.2	98	51	16	2.6
DATE		SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)
OCT 26...		1.9	0.1	0.40	42	5.1	0.2	<0.1	4.0	--	51	0.07
MAR 30...		1.7	0.1	0.9	45	4.6	0.4	<0.1	5.8	60	57	0.08
JUN 21...		0.9	0.1	0.3	22	3.6	0.2	<0.1	3.9	33	30	0.05
SEP 28...		1.5	0.1	0.5	53	4.5	0.2	<0.1	4.7	63	62	0.09
DATE		SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC, DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT 26...		2.91	<10	<1	15	<0.5	<10	<1.0	<1	<3	<1	22
MAR 30...		4.86	10	<1	16	<0.5	<10	3.0	<1	<3	<1	47
JUN 21...		40.6	40	<1	10	<0.5	<10	2.0	<1	<3	3	21
SEP 28...		3.57	10	1	19	<0.5	<10	<1.0	<1	<3	<1	44
DATE		LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM, DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY, DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT 26...		<1	<4	2	<0.1	<10	<10	<1	<1.0	47	<6	6
MAR 30...		<1	<4	5	<0.1	<10	<10	<1	2.0	44	<6	<3
JUN 21...		<1	<4	3	0.3	<10	<10	<1	1.0	26	<6	<3
SEP 28...		<1	<4	1	<0.1	<10	<10	<1	<1.0	51	<6	<3

YELLOWSTONE RIVER BASIN

06207500 CLARKS FORK YELLOWSTONE RIVER NEAR BELFRY, MT

LOCATION.--Lat 45°00'37", long 109°03'53", in NW¹/₄ SW¹/₄ NW¹/₄ sec.32, T.9 S., R.22 E., Carbon County, Hydrologic Unit 10070006, on left bank 0.2 mi upstream from county road bridge and Big Sand Coulee, 0.8 mi north of Wyoming-Montana State line, 9.5 mi southwest of Belfry, and at river mile 71.2.

DRAINAGE AREA.--1,154 mi².

PERIOD OF RECORD.--July 1921 to current year. Monthly discharge only for some periods, published in WSP 1309. Published as Clarks Fork at Chance prior to October 1956 and as Clarks Fork Yellowstone River at Chance October 1956 to September 1968.

REVISED RECORDS.--WSP 1309: 1922 (M). WSP 1729: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,986.24 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Nov. 15, 1934, nonrecording gage, and Nov. 15, 1934, to July 26, 1951, water-stage recorder at bridge 0.4 mi downstream of different datum. July 27, 1951 to Sept. 30, 1953, water-stage recorder at present site at datum 0.98 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 11,100 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	278	338	e150	207	e140	222	230	3520	3570	e1500	269
2	52	312	299	e150	218	e110	222	191	4060	3740	e1400	245
3	76	284	e260	e140	199	e130	239	182	4960	4280	e1200	223
4	104	232	e220	e140	185	e150	247	191	5570	4330	e1000	223
5	120	241	e200	e170	188	e150	295	215	5680	3870	e950	260
6	177	323	e180	e160	185	e120	353	383	8470	4000	e950	270
7	254	312	e170	e170	188	e130	388	536	6720	4460	e950	261
8	202	304	e160	e190	187	e150	398	552	4530	4920	e950	282
9	188	238	e150	225	181	e200	371	577	3460	4800	e1000	356
10	182	316	e150	243	177	268	320	608	2850	4670	e900	291
11	183	339	e170	222	e140	291	287	889	2640	4740	e850	254
12	179	316	e190	203	e110	324	282	1180	3580	4690	e800	238
13	180	330	e200	204	e100	319	293	1190	5580	4100	e750	214
14	189	299	e200	212	e110	267	370	990	7380	3570	e650	196
15	195	222	e220	209	e130	255	426	1100	8050	3020	e600	183
16	338	272	e230	207	e160	276	352	1740	7400	2590	e500	169
17	326	297	271	195	e200	280	337	2160	6800	2360	e480	166
18	320	e250	309	e170	227	267	326	2190	5780	2300	e450	163
19	298	e220	286	e190	219	275	316	e2300	4840	2330	430	198
20	266	239	266	e180	220	275	311	2370	4200	2430	393	221
21	253	266	272	e160	257	261	325	e2500	3720	2380	357	242
22	253	218	261	e150	232	276	327	e2400	3770	2270	326	225
23	241	197	252	e150	217	260	311	e2200	3330	2200	313	222
24	234	259	261	e130	214	247	295	e1900	3080	2010	351	208
25	226	292	266	e170	217	247	296	e1700	3510	1910	379	194
26	222	288	256	208	232	229	308	1410	4270	1810	544	190
27	225	257	250	220	236	215	251	1290	5050	1710	467	183
28	238	215	246	204	e190	216	221	1170	5480	1720	424	175
29	264	213	242	182	---	214	254	1360	4600	1710	383	175
30	271	255	232	165	---	203	244	1850	3600	1740	337	204
31	249	---	e170	193	---	226	---	2750	---	1620	298	---
TOTAL	6555	8084	7177	5662	5326	6971	9187	40304	146480	95850	20882	6700
MEAN	211	269	232	183	190	225	306	1300	4883	3092	674	223
MAX	338	339	338	243	257	324	426	2750	8470	4920	1500	356
MIN	50	197	150	130	100	110	221	182	2640	1620	298	163
AC-FT	13000	16030	14240	11230	10560	13830	18220	79940	290500	190100	41420	13290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1995, BY WATER YEAR (WY)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921-1930, BY WATER YEAR (WY)												
MEAN	284	295	260	228	221	219	423	2019	4053	2191	617	321
MAX	725	648	379	345	329	364	1167	5704	6631	5744	1453	834
(WY)	1931	1928	1951	1952	1963	1972	1943	1928	1974	1975	1951	1941
MIN	45.5	115	110	110	100	96.3	110	839	1607	349	66.5	50.1
(WY)	1989	1989	1922	1922	1922	1922	1961	1968	1987	1988	1988	1988

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1921 - 1995
ANNUAL TOTAL	234536	359178	--
ANNUAL MEAN	643	984	929
HIGHEST ANNUAL MEAN	--	--	1458
LOWEST ANNUAL MEAN	--	--	547
HIGHEST DAILY MEAN	5210	8470	12300
LOWEST DAILY MEAN	49	50	33
ANNUAL SEVEN-DAY MINIMUM	50	119	37
INSTANTANEOUS PEAK FLOW	--	9890	148000
INSTANTANEOUS PEAK STAGE	--	8.26	9.97
INSTANTANEOUS LOW FLOW	--	49	a32
ANNUAL RUNOFF (AC-FT)	465200	712400	673000
10 PERCENT EXCEEDS	1960	3570	2870
50 PERCENT EXCEEDS	241	266	300
90 PERCENT EXCEEDS	78	170	170

a Result of discharge measurement.

e Estimated.

06220500 EAST FORK WIND RIVER NEAR DUBOIS, WY

LOCATION.--Lat 43°27'16", long 109°27'57", in SE 1/4 SW 1/4 NW 1/4 sec.34, T.6 N., R.6 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 1.0 mi upstream from mouth and 9.9 mi southeast of Dubois.

DRAINAGE AREA.--427 mi².

PERIOD OF RECORD.--April 1950 to September 1957, October 1975 to current year. Prior to October 1953, published as North Fork Wind River near Dubois.

GAGE.--Water-stage recorder. Elevation of gage is 6,440 ft above sea level, from topographic map. Prior to Sept. 30, 1957, at site 50 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Nov. 3-6, 9, 10, and Nov. 13 to Mar. 8. Records fair except those for estimated daily discharges, which are poor. Diversions for irrigation of about 2,000 acres upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 3	2300	2530	5.94	June 27	0200	2590	6.02
June 6	0200	3930	6.74	July 12	2100	3130	6.31
June 15	0100	*4580	*7.07				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	59	46	35	47	62	50	84	1000	1290	304	128
2	86	60	47	33	49	58	50	89	936	1270	292	123
3	84	52	46	30	50	60	54	106	2230	1460	277	120
4	85	48	46	32	52	60	63	106	1550	1090	266	173
5	99	50	47	31	54	56	85	125	1910	1060	238	202
6	99	58	46	32	52	52	80	113	2310	1350	239	143
7	99	62	45	35	46	56	78	112	960	1740	228	147
8	89	62	44	37	42	60	78	131	699	1750	255	414
9	81	54	40	38	41	63	64	129	495	1580	247	270
10	76	54	41	39	40	61	66	146	367	1530	213	157
11	75	56	40	40	37	66	66	148	441	1690	282	140
12	78	59	40	40	36	70	73	170	1260	1880	284	137
13	77	55	38	41	35	60	97	163	2850	1610	255	126
14	75	43	41	41	36	57	86	148	3180	1170	214	122
15	81	37	40	41	38	57	78	156	3110	929	226	118
16	80	35	41	42	40	60	81	367	2840	873	221	114
17	79	34	42	39	42	57	74	508	2350	833	204	109
18	81	34	43	40	43	60	65	480	1720	858	196	103
19	75	35	42	43	42	57	58	519	1400	839	177	144
20	67	37	42	42	45	55	56	565	1420	864	167	225
21	67	37	42	41	48	52	58	497	1470	740	163	182
22	66	36	42	41	50	54	59	516	1420	676	156	189
23	62	37	41	40	50	53	60	337	1060	603	160	164
24	62	39	40	43	56	55	58	198	1220	557	246	162
25	61	40	39	42	60	50	62	151	1430	542	206	162
26	61	40	39	42	58	52	66	142	1700	510	181	156
27	62	43	38	40	62	50	75	153	1790	474	164	157
28	62	43	38	41	64	50	89	153	1610	500	155	150
29	58	44	37	39	---	45	88	228	1230	451	150	167
30	55	46	36	40	---	45	86	410	1110	479	149	165
31	52	---	35	44	---	50	---	737	---	364	133	---
TOTAL	2314	1389	1284	1204	1315	1743	2103	7887	47068	31562	6648	4869
MEAN	74.6	46.3	41.4	38.8	47.0	56.2	70.1	254	1569	1018	214	162
MAX	99	62	47	44	64	70	97	737	3180	1880	304	414
MIN	52	34	35	30	35	45	50	84	367	364	133	103
AC-FT	4590	2760	2550	2390	2610	3460	4170	15640	93360	62600	13190	9660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

MEAN	95.2	60.2	48.8	46.1	47.1	58.1	154	534	1029	547	188	116
MAX	200	112	87.8	68.8	66.8	92.5	353	1161	1756	1281	461	224
(WY)	1951	1951	1951	1953	1951	1986	1952	1956	1957	1951	1951	1950
MIN	51.7	35.7	28.5	27.4	26.7	39.6	64.4	215	339	106	51.2	34.0
(WY)	1989	1989	1989	1977	1985	1978	1984	1977	1994	1994	1988	1988

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1950 - 1995

	FOR 1977 CALENDAR YEAR			FOR 1977 WATER YEAR			WATER YEARS 1950 - 1999	
ANNUAL TOTAL	49827			109386			--	
ANNUAL MEAN	137			300			242	
HIGHEST ANNUAL MEAN	--			--			414	1951
LOWEST ANNUAL MEAN	--			--			126	1977
HIGHEST DAILY MEAN	1220	May 13		3180	Jun 14		3740	Jun 1 1956
LOWEST DAILY MEAN	33	Jan 31		30	Jan 3		18	Jan 9 1977
ANNUAL SEVEN-DAY MINIMUM	35	Jan 27		33	Dec 31		21	Feb 1 1985
INSTANTANEOUS PEAK FLOW	--			4580	Jun 15		5980a	Jun 9 1981
INSTANTANEOUS PEAK STAGE	--			7.07	Jun 15		9.27	Jun 30 1957
ANNUAL RUNOFF (AC-FT)	98830			217000			175500	
10 PERCENT EXCEEDS	401			1060			690	
50 PERCENT EXCEEDS	61			75			82	
90 PERCENT EXCEEDS	39			40			40	

a Gage height, 7.69 ft, from rating curve extended above 2,600 ft³/s.

YELLOWSTONE RIVER BASIN

06220800 WIND RIVER ABOVE RED CREEK, NEAR DUBOIS, WY

LOCATION.--Lat 43°26'30", long 109°27'29", in NW¹/₄ SW¹/₄ NW¹/₄ sec.3, T.5 N., R.6 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, 400 ft downstream from East Fork Wind River and 12.1 mi southeast of Dubois.

DRAINAGE AREA.--1,073 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,400 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 18-22, Dec. 10-20, Jan. 1-10, 21-27, Feb. 11-18, May 2, and July 25, 26. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 1,800 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279	232	181	140	171	159	164	236	2000	2960	1110	450
2	302	232	183	130	174	151	181	250	2040	2920	1060	436
3	316	212	181	125	157	167	183	351	3280	3230	1010	435
4	304	168	178	130	161	170	205	286	3150	2720	968	522
5	341	186	185	130	161	164	249	304	3500	2490	940	567
6	353	238	179	135	166	145	248	341	4900	2730	919	481
7	347	239	176	135	165	147	245	295	3210	3320	886	487
8	315	229	168	140	160	156	229	271	2620	3420	874	733
9	300	196	142	140	156	172	186	256	2280	3280	804	589
10	292	240	140	140	149	177	179	354	1930	3320	755	505
11	284	217	130	151	136	214	168	412	1890	3630	919	477
12	273	233	140	151	138	274	199	443	3050	3970	864	445
13	267	219	140	155	130	202	217	419	4630	3820	789	421
14	270	171	140	155	135	183	276	333	5570	3050	725	406
15	297	150	140	155	140	197	213	419	6120	2550	669	384
16	306	185	145	156	150	224	222	773	5390	2330	625	370
17	298	177	150	149	150	209	209	852	4540	2180	597	358
18	288	160	150	154	155	186	196	844	3710	2170	582	350
19	279	150	150	163	160	201	205	847	3210	2150	555	442
20	264	150	155	160	174	171	189	875	3240	2370	533	619
21	263	155	163	156	186	189	194	1080	3300	2130	509	503
22	253	155	163	140	188	194	198	1210	3310	2130	506	510
23	233	152	162	140	192	167	209	911	2730	1940	503	467
24	231	158	163	140	193	182	197	722	2880	1760	705	443
25	232	167	167	130	199	157	204	640	3180	1620	681	435
26	231	170	165	140	201	166	201	615	3620	1540	635	424
27	249	191	168	150	197	153	201	699	3880	1460	607	416
28	242	165	163	156	173	155	275	707	3740	1470	572	402
29	218	168	166	145	---	155	280	807	3110	1380	533	464
30	187	180	150	151	---	154	261	1090	2830	1400	495	453
31	181	---	150	163	---	166	---	1600	---	1230	473	---
TOTAL	8495	5645	4933	4505	4617	5507	6383	19242	102840	76670	22403	13994
MEAN	274	188	159	145	165	178	213	621	3428	2473	723	466
MAX	353	240	185	163	201	274	280	1600	6120	3970	1110	733
MIN	181	150	130	125	130	145	164	236	1890	1230	473	350
AC-FT	16850	11200	9780	8940	9160	10920	12660	38170	204000	152100	44440	27760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995
MEAN	290	222	180	163	186
MAX	353	295	225	188	197
(WY)	1991	1991	1992	1991	1991
MIN	244	171	146	122	144
(WY)	1993	1993	1993	1993	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1991 - 1995
ANNUAL TOTAL	147457	275234	--
ANNUAL MEAN	404	754	598
HIGHEST ANNUAL MEAN	--	--	754
LOWEST ANNUAL MEAN	--	--	410
HIGHEST DAILY MEAN	3060	6120	6120
LOWEST DAILY MEAN	130	125	90
ANNUAL SEVEN-DAY MINIMUM	136	132	96
INSTANTANEOUS PEAK FLOW	--	7600	7600
INSTANTANEOUS PEAK STAGE	--	8.60	8.60
ANNUAL RUNOFF (AC-FT)	292500	545900	432900
10 PERCENT EXCEEDS	986	2720	1630
50 PERCENT EXCEEDS	240	245	264
90 PERCENT EXCEEDS	160	150	155

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SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1958 - 1995	
ANNUAL TOTAL	39853.4		62106.1		--	
ANNUAL MEAN	109		170		138	
HIGHEST ANNUAL MEAN	--		--		179	
LOWEST ANNUAL MEAN	--		--		95.2	
HIGHEST DAILY MEAN	445	Jun 23	1250	Jun 15	1250	Jun 15 1995
LOWEST DAILY MEAN	3.0	Jan 31	5.0	Feb 12	1.0	Jan 9 1977
ANNUAL SEVEN-DAY MINIMUM	3.3	Feb 6	5.5	Feb 10	1.3	Jan 4 1977
INSTANTANEOUS PEAK FLOW	--		1510		1510	
INSTANTANEOUS PEAK STAGE	--		4.50		4.50	
ANNUAL RUNOFF (AC-FT)	79050		123200		100300	
10 PERCENT EXCEEDS	306		566		437	
50 PERCENT EXCEEDS	44		26		28	
90 PERCENT EXCEEDS	3.9		7.2		6.8	

LOCATION.--Lat 43°20'11", long 109°17'55", in NW¹/₄ NE¹/₄ SW¹/₄ sec. 12, T.4 N., R.5 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 0.9 mi upstream from Dry Creek Canal headgate and 2.4 mi southwest of Burris.

PERIOD OF RECORD.--June 1921 to September 1940, October 1988 to current year. Published as "near Lenore" 1921 to 1924.

GAGE. --Water-stage recorder. Elevation of gage is 6,430 ft (revised) above sea level, from topographic map. Prior to Nov. 5, 1934, at site 50 ft downstream at datum 4.07 ft higher. Nov. 5, 1934 to September 1940, at site 5 ft downstream at datum 3.00 ft higher.

REMARKS. --Estimated daily discharges: Oct. 23-26, Oct. 29 to Nov. 1, Nov. 4-9, 14-30, Dec. 7-14, Dec. 31 to Jan. 8, Jan. 19 to Feb. 15, Feb. 28, Mar. 1-3, 5-9, 25-30, and Aug. 2-22. Records fair except those for estimated daily discharges, which are poor. Adjudicated diversion upstream for irrigation of 267 acres.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	11	7.0	2.9	2.0	1.8	2.5	6.8	96	343	167	41
2	21	10	6.9	2.8	2.0	1.7	2.5	7.2	125	352	140	37
3	23	10	6.2	2.7	2.0	1.9	2.6	8.9	185	361	120	37
4	23	8.2	5.8	2.6	2.1	2.0	2.6	8.9	216	284	110	38
5	24	8.6	5.7	2.5	2.0	2.0	2.6	11	220	256	105	42
6	26	9.2	5.7	2.6	2.0	1.9	2.6	12	438	281	100	44
7	25	9.8	6.0	2.6	2.0	1.8	2.9	13	369	353	110	44
8	23	10	5.6	2.3	2.0	1.9	3.1	12	243	419	120	45
9	22	9.6	5.2	2.1	2.0	2.0	2.9	12	159	428	110	44
10	22	13	4.7	2.1	2.1	2.1	2.8	19	122	442	100	39
11	20	11	4.5	2.1	1.9	2.1	2.7	25	123	464	125	37
12	20	12	4.3	2.1	1.8	2.6	2.8	30	198	668	150	39
13	19	11	4.2	2.1	1.9	2.3	2.9	25	493	700	140	34
14	18	5.8	3.7	2.2	2.0	2.4	3.2	21	734	534	120	31
15	20	5.4	3.7	2.2	2.0	2.5	3.5	30	628	365	90	29
16	23	5.6	3.8	2.2	2.1	2.5	3.8	44	531	315	75	26
17	24	5.4	3.8	2.2	2.1	2.5	3.8	52	495	296	70	24
18	22	5.8	3.7	2.2	1.9	2.4	4.0	54	315	296	75	25
19	20	5.8	3.8	2.2	2.0	2.5	4.0	59	247	292	75	29
20	19	5.8	3.8	2.1	2.1	2.3	3.9	63	267	318	70	32
21	19	5.6	3.8	2.1	2.1	2.5	3.8	70	347	299	55	32
22	17	5.2	3.8	2.1	2.1	2.6	3.8	88	402	276	45	31
23	15	5.4	3.7	2.0	2.1	2.5	3.8	74	342	252	45	28
24	14	5.4	3.5	1.9	2.1	2.6	3.7	69	334	224	59	27
25	14	6.0	3.4	1.9	2.0	2.4	4.3	64	369	209	71	26
26	13	6.2	3.5	1.9	2.0	2.4	4.3	61	443	197	70	24
27	14	6.4	3.4	2.0	2.0	2.4	4.5	64	523	189	66	23
28	14	6.4	3.3	2.0	1.9	2.4	5.9	59	493	193	60	21
29	11	6.4	3.2	1.9	---	2.4	6.5	63	388	192	52	21
30	10	7.0	3.2	2.0	---	2.5	6.5	70	313	194	47	22
31	11	---	3.0	2.0	---	2.7	---	85	---	182	44	---
TOTAL	586	233.0	135.9	68.6	56.3	70.6	108.8	1280.8	10158	10174	2786	972
MEAN	18.9	7.77	4.38	2.21	2.01	2.28	3.63	41.3	339	328	89.9	32.4
MAX	26	13	7.0	2.9	2.1	2.7	6.5	88	734	700	167	45
MIN	10	5.2	3.0	1.9	1.8	1.7	2.5	6.8	96	182	44	21
AC-FT	1160	462	270	136	112	140	216	2540	20150	20180	5530	1930

STATISTICS OF MONTHLY MEAN EAP FOR WARM YEARS 1957, 1958, 1959, 1960, 1961												
MEAN	17.3	10.3	5.97	4.10	2.71	2.91	8.77	83.4	201	121	58.8	30.7
MAX	50.0	25.4	15.0	10.0	7.00	10.0	25.7	162	525	328	164	64.6
(WY)	1924	1928	1926	1926	1923	1923	1926	1924	1921	1995	1930	1927
MIN	5.16	1.76	.55	.30	.20	.000	.88	29.5	51.4	33.8	18.8	12.2
(WY)	1934	1934	1934	1934	1934	1934	1940	1935	1934	1940	1940	1934

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1921 - 1995	
ANNUAL TOTAL	9434.7		26630.0		--	
ANNUAL MEAN	25.8		73.0		44.6	
HIGHEST ANNUAL MEAN	--		--		73.0	
LOWEST ANNUAL MEAN	--		--		20.1	
HIGHEST DAILY MEAN	202	May 13	734	Jun 14	1240	Jun 7 1921
LOWEST DAILY MEAN	1.0	Feb 9	1.7	Mar 2	.00	Mar 1 1934
ANNUAL SEVEN-DAY MINIMUM	1.1	Feb 7	1.9	Mar 1	.00	Mar 1 1934
INSTANTANEOUS PEAK FLOW	--		891		1400a	
INSTANTANEOUS PEAK STAGE	--		5.84		5.84	
ANNUAL RUNOFF (AC-FT)	18710		52820		32290	
10 PERCENT EXCEEDS	69		287		137	
50 PERCENT EXCEEDS	16		11		14	
90 PERCENT EXCEEDS	1.2		2.0		2.0	

a Gage height, 3.9 ft, from floodmark, site and datum then in use, from rating curve extended above 580 ft³/s.

YELLOWSTONE RIVER BASIN

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06222510 DRY CREEK CANAL AT HEADGATE, NEAR BURRIS, WY

LOCATION.--Lat 43°20'38", long 109°17'25", in NW¹/4 NE¹/4 NE¹/4 sec.12, T.4 S., R.5 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 200 ft downstream from headgate and 1.7 miles southwest of Burris.

PERIOD OF RECORD.--April 1989 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of the gage is 6,360 ft above sea level, from topographic map. Prior to April 1, 1990, at datum 1.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow is diverted from Dry Creek for irrigation. Result of discharge measurement in cubic feet per second, made during the period when the station was not in operation, are given below:

Oct. 7 . . . 1.11

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	---	---	---	---	---	---	9.5	114	141	183	42
2	26	---	---	---	---	---	---	31	129	138	196	39
3	17	---	---	---	---	---	---	34	107	137	209	40
4	---	---	---	---	---	---	---	32	78	129	204	41
5	---	---	---	---	---	---	---	32	76	155	198	44
6	---	---	---	---	---	---	---	30	65	193	192	83
7	---	---	---	---	---	---	---	29	71	189	185	154
8	---	---	---	---	---	---	---	28	85	164	185	154
9	---	---	---	---	---	---	---	25	85	148	189	151
10	---	---	---	---	---	---	---	24	83	157	215	144
11	---	---	---	---	---	---	---	26	82	156	260	141
12	---	---	---	---	---	---	---	28	84	115	279	145
13	---	---	---	---	---	---	---	27	66	84	271	149
14	---	---	---	---	---	---	---	26	67	121	259	159
15	---	---	---	---	---	---	---	29	90	142	246	154
16	---	---	---	---	---	---	---	56	120	131	240	148
17	---	---	---	---	---	---	---	77	124	154	246	145
18	---	---	---	---	---	---	---	81	111	174	253	148
19	---	---	---	---	---	---	---	88	124	181	254	154
20	---	---	---	---	---	---	---	91	133	188	245	155
21	---	---	---	---	---	---	---	92	149	179	238	146
22	---	---	---	---	---	---	---	83	165	169	237	132
23	---	---	---	---	---	---	---	75	164	166	235	119
24	---	---	---	---	---	---	---	85	166	162	240	111
25	---	---	---	---	---	---	---	91	170	177	79	102
26	---	---	---	---	---	---	---	91	174	190	65	94
27	---	---	---	---	---	---	---	91	165	189	61	88
28	---	---	---	---	---	---	---	90	154	187	57	80
29	---	---	---	---	---	---	---	90	149	186	55	78
30	---	---	---	---	---	---	---	90	141	185	65	75
31	---	---	---	---	---	---	---	100	---	187	45	---
TOTAL	70	---	---	---	---	---	---	1781.5	3491	4974	5886	3415
MEAN	23.3	---	---	---	---	---	---	57.5	116	160	190	114
MAX	27	---	---	---	---	---	---	100	174	193	279	159
MIN	17	---	---	---	---	---	---	9.5	65	84	45	39
AC-FT	139	---	---	---	---	---	---	3530	6920	9870	11670	6770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1995, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1.44	---	---	---	---	---	---	---
MAX	2.29	---	---	---	---	---	---	---
(WY)	1993	---	---	---	---	---	---	---
MIN	.60	---	---	---	---	---	---	---
(WY)	1994	---	---	---	---	---	---	---

SUMMARY STATISTICS

HIGHEST DAILY MEAN

LOWEST DAILY MEAN

ANNUAL SEVEN-DAY MINIMUM

INSTANTANEOUS PEAK FLOW

INSTANTANEOUS PEAK STAGE

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

FOR 1995 WATER YEAR*

279 Aug 12

9.5 May 1

26 May 8

284 Aug 12

3.80 Aug 12

WATER YEARS 1988 - 1995*

285 Jun 23 1994

.00 Many days,

.00 Many days,

301 Jun 23 1994

3.88 Jun 23 1994

227

161

.15

* During period of operation.

06223500 WILLOW CREEK NEAR CROWHEART, WY

LOCATION.--Lat 43°17'00", long 109°11'08", in SE¹/₄ NW¹/₄ NW¹/₄ sec.36, T.4 N., R.4 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank 1000 ft upstream from Willow Creek Canal diversion and 2.0 mi south of Crowheart.

DRAINAGE AREA.--55.4 mi².

PERIOD OF RECORD.--June to October 1909 (published as "J. K. Ranch Post Office"), June 1921 to September 1922 (published as "near Lenore"), May and June 1923, May 1925 to September 1940, October 1988 to current year.

REVISED RECORDS.--WSP 1309: 1939 (M).

GAGE.--Water-stage recorder. Elevation of gage is 6,080 ft above sea level, from topographic map. May 17 to October 31, 1909, nonrecording gage 1.9 mi downstream at different datum, May 16, 1921 to Aug. 24, 1923, nonrecording gage 200 ft upstream at different datum, and May 1925 to September 1940, water-stage recorder 600 ft downstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 3-5 and Nov. 14 to Mar. 12. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of 60.1 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	6.2	6.9	4.8	5.6	4.6	5.1	5.8	12	201	33	11
2	5.6	6.5	7.2	4.6	5.4	4.7	4.8	5.9	15	216	31	11
3	6.5	6.8	7.4	4.4	5.4	4.7	4.8	8.8	65	197	30	12
4	6.6	7.0	7.6	4.1	5.2	4.7	4.9	7.5	83	139	29	12
5	6.8	6.6	7.2	4.2	5.1	4.6	5.1	6.6	95	142	28	12
6	6.8	6.4	6.8	4.5	5.0	4.6	5.0	7.2	137	161	27	11
7	6.8	6.5	6.4	4.9	5.0	4.7	5.0	6.5	111	202	27	11
8	6.6	6.5	6.2	5.4	4.9	4.8	5.0	6.5	88	193	27	13
9	6.5	6.9	6.0	5.8	4.9	4.8	5.0	6.5	73	176	25	13
10	6.5	6.5	5.8	6.2	4.8	4.8	5.0	6.2	65	193	23	12
11	6.5	6.5	5.6	6.2	4.7	5.0	5.0	6.2	65	188	28	11
12	6.4	6.5	5.8	6.2	4.5	5.2	4.8	7.1	90	197	25	11
13	6.2	6.3	6.0	6.4	4.4	5.4	4.8	10	176	154	21	9.9
14	6.2	6.2	6.2	6.4	4.5	5.3	4.9	8.4	242	100	20	10
15	7.8	6.2	6.4	6.4	4.6	5.3	5.1	7.8	327	81	19	9.4
16	8.2	6.0	6.6	6.0	4.6	5.4	5.8	7.2	360	79	18	9.1
17	7.4	6.0	6.6	5.8	4.6	5.3	6.0	7.9	298	76	18	8.9
18	7.1	5.8	6.6	5.6	4.7	5.2	5.7	7.8	223	74	18	9.1
19	6.7	5.6	6.4	5.2	4.9	5.1	5.6	8.2	223	71	16	11
20	6.5	5.8	6.4	4.8	4.9	5.2	5.4	8.9	241	82	15	13
21	6.4	6.0	6.4	4.9	5.0	5.4	5.3	8.9	278	70	15	12
22	6.3	6.0	6.4	5.0	5.1	5.8	5.4	9.8	261	61	15	12
23	6.5	5.8	6.2	5.2	5.0	5.2	5.8	11	213	58	15	12
24	6.5	6.0	6.4	5.2	4.8	5.1	5.4	12	207	54	18	12
25	6.4	6.2	6.4	5.4	4.7	5.0	5.8	11	230	52	17	12
26	6.3	6.4	6.4	5.4	4.6	5.2	5.9	12	260	47	15	11
27	6.3	6.6	6.2	5.6	4.6	5.0	5.6	14	268	47	14	11
28	6.5	6.8	6.0	5.6	4.5	5.5	6.1	13	272	47	13	11
29	6.5	6.8	5.8	5.6	---	5.3	6.0	13	211	42	12	11
30	6.7	6.8	5.4	5.6	---	5.3	6.1	12	177	43	12	12
31	7.3	---	5.0	5.8	---	5.0	---	12	---	37	12	---
TOTAL	205.7	190.2	196.7	167.2	136.0	157.2	160.2	275.7	5366	3480	636	336.4
MEAN	6.64	6.34	6.35	5.39	4.86	5.07	5.34	8.89	179	112	20.5	11.2
MAX	8.2	7.0	7.6	6.4	5.6	5.8	6.1	14	360	216	33	13
MIN	5.6	5.6	5.0	4.1	4.4	4.6	4.8	5.8	12	37	12	8.9
AC-FT	408	377	390	332	270	312	318	547	10640	6900	1260	667

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1995, BY WATER YEAR (WY)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1935, BY WATER YEAR (WY)												
MEAN	9.03	7.53	6.15	5.25	4.76	4.96	6.34	27.9	75.3	28.7	12.5	9.20
MAX	17.6	13.3	10.0	8.00	7.00	8.00	9.15	63.8	190	112	45.4	21.9
(WY)	1931	1927	1927	1927	1922	1922	1922	1931	1991	1995	1930	1930
MIN	5.15	2.50	2.00	2.00	2.00	2.50	3.97	6.85	9.71	5.68	3.50	4.67
(WY)	1989	1940	1940	1940	1940	1940	1940	1935	1934	1940	1940	1935

SUMMARY STATISTICS

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1922 - 1995	
ANNUAL TOTAL	3245.6		11307.3		--	
ANNUAL MEAN	8.89		31.0		16.5	
HIGHEST ANNUAL MEAN	--		--		31.0 1995	
LOWEST ANNUAL MEAN	--		--		4.60 1940	
HIGHEST DAILY MEAN	80	May 13	360	Jun 16	468	Jun 12 1991
LOWEST DAILY MEAN	3.9	Mar 24	4.1	Jan 4	2.0	Dec 1 1939
ANNUAL SEVEN-DAY MINIMUM	4.2	Mar 20	4.5	Jan 1	2.0	Dec 1 1939
INSTANTANEOUS PEAK FLOW	--		441	Jun 15	1100a	May 31 1939
INSTANTANEOUS PEAK STAGE	--		4.30	Jun 15	5.40b	May 31 1939
ANNUAL RUNOFF (AC-FT)	6440		22430		11930	
10 PERCENT EXCEEDS	13		89		38	
50 PERCENT EXCEEDS	6.0		6.5		7.4	
90 PERCENT EXCEEDS	4.5		4.9		4.0	

a On basis of flow-over-dam measurement of peak flow.

b Site and datum then in use.

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LOCATION.--Lat 43°10'37", long 109°12'08", in NE¹/₄ SW¹/₄ sec.2, T.2 N., R.4 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on right bank 1.2 mi upstream from high-water line of Bull Lake and 9.0 mi south of Crowheart.

DRAINAGE AREA.--187 mi².

PERIOD OF RECORD.--June 1941 to December 1953, October 1966 to current year. Monthly discharge only for some periods, published in WSP 1309. Prior to October 1950, published as "above Bull Lake Reservoir."
GAGE.--Water-stage recorder. Elevation of gage is 5,874 ft above sea level, from topographic map.
REMARKS.--Estimated daily discharges: Nov. 3-5, 14-17, 20, 28-30, Dec. 6-13, and Jan. 2, 17-19. Records good except those for estimated discharges which are poor. No diversions upstream from station. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR: Peak discharges greater than base discharge of 1,500 ft ³ /s and maximum (%)							
Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 6	0545	1,970	5.62	June 28	0730	2,260	5.94
June 16	0130	2,930	6.59	July 13	0730	*3,330	*6.94

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	63	56	24	26	19	30	76	515	1720	785	328
2	124	61	50	25	27	19	28	74	692	1730	671	309
3	134	54	48	26	24	21	29	95	1160	1810	617	319
4	140	52	49	25	25	21	30	93	1250	1530	599	344
5	139	56	52	27	25	22	31	106	1360	1280	582	393
6	142	57	52	31	25	20	33	115	1800	1320	566	430
7	142	58	50	30	23	23	39	98	1410	1640	587	396
8	135	60	34	29	23	27	42	91	1040	1990	616	374
9	126	62	34	29	23	24	36	88	792	2050	602	363
10	118	65	37	27	22	24	36	108	641	2180	543	326
11	111	65	40	26	21	46	33	141	606	2280	619	285
12	104	66	45	27	19	56	38	169	930	2910	766	247
13	97	66	50	28	19	47	39	185	1900	3080	731	221
14	95	52	51	30	21	44	53	153	2520	2350	623	209
15	99	50	48	32	23	46	50	176	2760	1670	523	207
16	113	50	49	34	22	51	54	231	2720	1350	454	199
17	124	54	46	33	23	46	53	275	2280	1210	444	195
18	125	52	44	33	21	41	53	271	1800	1180	484	194
19	116	50	45	34	22	45	54	294	1470	1180	477	204
20	108	52	42	35	23	39	50	344	1450	1310	418	204
21	102	55	44	29	22	41	48	392	1610	1290	371	198
22	97	38	41	35	22	45	50	412	1700	1260	357	187
23	89	48	39	31	23	42	53	355	1450	1180	368	174
24	83	62	37	32	24	40	53	307	1430	1040	538	164
25	81	59	38	31	23	43	53	265	1600	959	663	153
26	78	59	38	29	23	39	57	244	1830	892	653	143
27	77	46	37	29	21	36	56	292	2080	853	569	137
28	76	39	35	29	20	33	69	269	2160	881	489	130
29	70	39	35	24	---	31	76	266	1980	894	428	126
30	66	42	32	28	---	30	78	274	1680	927	390	131
31	65	---	25	26	---	34	---	380	---	905	361	---
TOTAL	3289	1632	1323	908	635	1095	1404	6639	46616	46851	16894	7290
MEAN	106	54.4	42.7	29.3	22.7	35.3	46.8	214	1554	1511	545	243
MAX	142	66	56	35	27	56	78	412	2760	3080	785	430
MIN	65	38	25	24	19	19	28	74	515	853	357	126
AC-FT	6520	3240	2620	1800	1260	2170	2780	13170	92460	92930	33510	14460

MEAN	100	55.9	37.4	28.1	24.7	26.6	66.3	463	1147	912	429	204
MAX	222	109	62.2	42.7	41.4	57.4	199	777	2104	1581	655	533
(WY)	1983	1951	1951	1943	1943	1986	1943	1969	1986	1975	1982	1973
MIN	32.9	29.5	14.6	7.29	6.87	6.69	24.9	170	560	337	145	109
(WY)	1989	1977	1977	1977	1977	1977	1970	1975	1992	1994	1985	1988

	1991 WATER YEAR		1992 WATER YEAR		1993 WATER YEAR	
ANNUAL TOTAL	69060.8		134576		--	
ANNUAL MEAN	189		369		292	
HIGHEST ANNUAL MEAN	--		--		415	1986
LOWEST ANNUAL MEAN	--		--		174	1977
HIGHEST DAILY MEAN	1130	May 14	3080	Jul 13	3560	Jun 9 1981
LOWEST DAILY MEAN	9.0	Jan 31	19	Feb 12, 13, Mar 1, 2	6.2	Jan 9 1977
ANNUAL SEVEN-DAY MINIMUM	10	Feb 3	20	Feb 28	6.5	Mar 10 1977
INSTANTANEOUS PEAK FLOW	--		3330	Jul 13	4470	Jun 9 1981
INSTANTANEOUS PEAK STAGE	--		6.94	Jul 13	7.98	Jun 9 1981
ANNUAL RUNOFF (AC-FT)	137000		266900		211800	
10 PERCENT EXCEEDS	509		1310		905	
50 PERCENT EXCEEDS	89		74		76	
90 PERCENT EXCEEDS	13		25		22	

YELLOWSTONE RIVER BASIN

06224000 BULL LAKE CREEK ABOVE BULL LAKE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)
OCT 24...	1420	82	45	3.5	9.0
DEC 02...	1200	52	60	0.0	6.0
JAN 23...	0900	24	86	0.0	-16.0
MAR 20...	0840	39	70	2.0	2.0
APR 27...	1230	58	77	5.0	8.0
JUN 22...	1140	1760	73	7.0	25.0
AUG 14...	1345	629	20	12.5	23.0

06225000 BULL LAKE CREEK NEAR LENORE, WY

LOCATION.--Lat 43°14'33", long 109°01'20", in NE¹/₄ NW¹/₄ sec.17, T.3 N., R.2 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 700 ft upstream from mouth, 2.8 mi downstream from Bull Lake, and 8.5 mi southeast of Lenore.

DRAINAGE AREA.--213 mi², of which 12 mi² is probably noncontributing.

PERIOD OF RECORD.--May 1918 to current year.

REVISED RECORDS.--WSP 1309: 1921 (M, date only), 1925(M), 1926(M), 1930(M). WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,654 ft above sea level, from topographic map. May 18, 1918, to Sept. 30, 1922, at site 10 ft upstream at datum 0.86 ft higher; Oct. 1, 1922, to Oct. 3, 1934, at present site at datum 2.00 ft lower.

REMARKS.--Estimated daily discharges: Oct. 27, 28, Nov. 14, 15, 19, 21, 22, 27-30. Dec. 6-16, 31, Jan. 1-11, 17-26, 30, Feb. 11-16, and Mar. 1. Records good except those for estimated daily discharges, which are poor. Flow completely regulated by Bull Lake 2.8 mi upstream since April 1938. (See station 06224500.) Diversions upstream from station for irrigation of about 730 acres downstream. U.S. Bureau of Reclamation satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	31	32	31	33	30	31	17	40	1470	737	773
2	32	30	32	30	33	30	31	18	40	1470	742	769
3	35	30	32	31	33	30	31	20	42	1540	664	781
4	34	29	32	31	33	30	31	18	42	1590	588	775
5	34	29	32	29	33	31	31	18	43	1580	585	768
6	31	29	31	31	33	31	31	17	43	1560	591	771
7	30	30	31	32	33	31	31	17	47	1560	676	699
8	30	31	32	33	33	30	31	17	70	1550	771	615
9	30	30	32	33	32	30	31	17	120	1560	773	535
10	30	29	32	34	31	30	30	18	121	1570	773	580
11	29	29	31	33	30	31	30	18	121	1560	884	632
12	22	29	31	33	29	30	30	21	141	1830	960	629
13	22	29	32	33	28	30	30	37	195	2600	956	627
14	22	28	33	33	29	30	28	35	232	3090	947	627
15	24	29	34	33	29	30	22	34	236	2810	933	631
16	24	31	33	33	30	29	24	34	243	1840	928	626
17	23	30	33	32	30	30	23	34	246	1220	920	617
18	23	32	33	31	31	30	22	34	281	890	1040	618
19	22	30	33	32	31	30	22	34	338	615	1160	615
20	21	32	33	33	31	31	21	35	352	479	1170	622
21	21	31	33	32	31	30	21	36	359	577	1140	606
22	21	31	33	31	31	30	22	37	363	1050	1110	613
23	21	32	33	30	31	31	19	37	396	1130	1100	615
24	21	32	33	30	31	31	17	37	481	1130	1080	611
25	21	32	33	31	31	30	18	38	540	1130	1050	510
26	21	32	33	32	31	31	17	38	638	1050	835	411
27	25	31	33	33	30	31	17	39	846	876	786	345
28	38	31	33	33	30	31	19	40	1140	741	782	292
29	40	31	33	33	---	31	17	40	1370	740	785	256
30	41	31	33	32	---	31	17	39	1470	745	781	187
31	40	---	32	33	---	31	---	39	---	737	774	---
TOTAL	863	911	1006	991	871	942	745	913	10596	42290	27021	17756
MEAN	27.8	30.4	32.5	32.0	31.1	30.4	24.8	29.5	353	1364	872	592
MAX	41	32	34	34	33	31	31	40	1470	3090	1170	781
MIN	21	28	31	29	28	29	17	17	40	479	585	187
AC-FT	1710	1810	2000	1970	1730	1870	1480	1810	21020	83880	53600	35220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1995, BY WATER YEAR (WY)

	MEAN	133	69.7	73.1	91.1	76.8	62.5	96.9	228	557	812	657	422
MAX	782	467	241	267	219	197	601	831	2265	1645	1027	982	
(WY)	1952	1969	1972	1954	1951	1951	1965	1928	1918	1923	1969	1976	
MIN	4.16	8.34	13.8	11.0	12.0	.000	3.59	6.01	10.6	85.6	193	113	
(WY)	1941	1965	1978	1931	1931	1937	1941	1940	1941	1941	1977	1961	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1918 - 1995
ANNUAL TOTAL	82849	104905	--
ANNUAL MEAN	227	287	273
HIGHEST ANNUAL MEAN	--	--	427
LOWEST ANNUAL MEAN	--	--	100
HIGHEST DAILY MEAN	969	Jun 11	3900
LOWEST DAILY MEAN	21	Oct 20	17
ANNUAL SEVEN-DAY MINIMUM	21	Oct 20	17
INSTANTANEOUS PEAK FLOW	--	3200	Jul 15
INSTANTANEOUS PEAK STAGE	--	5.37	Jul 15
ANNUAL RUNOFF (AC-FT)	164300	208100	198000
10 PERCENT EXCEEDS	795	939	800
50 PERCENT EXCEEDS	39	33	109
90 PERCENT EXCEEDS	29	22	19

a Result of regulation.

b From rating curve extended above 2,000 ft³/s basis of slope-area measurement of peak flow. Result of automatic spillway gages releasing at Bull Lake Dam.

06225500 WIND RIVER NEAR CROWHEART, WY

LOCATION.--Lat 43°14'33", long 109°00'35", in NW¹/₄ NW¹/₄ sec.16, T.3 N., R.2 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on right bank 0.9 mi downstream from Bull Lake Creek and 9.0 mi southeast of Crowheart.

DRAINAGE AREA.--1,891 mi².

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WSP 1116: 1946-47. WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,635 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 3, 4, Nov 6-8, Nov. 14 to Feb. 2, Feb. 11-18, Apr. 26, 27, June 13, 16, 23, and July 15-17. Records good except those for estimated daily discharges, which are poor. Some regulation by Bull Lake on Bull Lake Creek. (See station 06224500.) Diversions for irrigation of about 25,000 acres upstream from station. U.S. Bureau of Reclamation satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1927, reached a discharge of 13,000 ft³/s; discharge measurement made by Bureau of Reclamation at site 1.0 mi downstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	466	391	330	250	280	281	261	366	2290	4630	2120	1530
2	472	421	330	230	290	272	262	334	2330	4550	1970	1500
3	500	427	330	220	298	277	272	496	3890	4870	1770	1460
4	570	402	320	220	295	285	277	472	4810	4470	1620	1480
5	581	360	330	210	295	276	298	391	4760	4140	1600	1650
6	637	370	320	230	300	266	321	438	6230	4210	1560	1580
7	653	390	310	240	290	255	320	411	4810	4760	1610	1470
8	614	400	290	250	281	262	315	388	3670	5860	1700	1450
9	579	409	260	250	281	271	301	373	3070	5980	1740	1400
10	556	397	250	250	270	281	282	407	2410	6260	1640	1310
11	540	413	260	270	255	292	274	457	2150	6570	1720	1280
12	520	401	260	270	230	337	268	514	3160	7680	1960	1240
13	516	408	260	270	230	319	292	614	5000	9340	1920	1220
14	508	356	260	270	230	294	312	512	7960	9610	1840	1210
15	528	330	260	280	250	285	331	457	8850	7400	1710	1180
16	590	320	260	280	260	302	316	731	6800	5600	1630	1190
17	587	310	270	270	280	313	322	955	5690	4100	1580	1170
18	554	290	270	270	300	296	317	974	4210	3870	1660	1170
19	527	280	270	280	314	289	307	985	3390	3500	1760	1180
20	499	280	280	280	358	291	309	985	3280	3580	1740	1280
21	475	280	280	270	344	276	298	1160	3460	3430	1700	1290
22	472	280	280	260	344	290	315	1400	3790	3940	1670	1220
23	473	280	280	250	322	285	317	1280	3500	3860	1650	1190
24	451	290	280	250	315	273	320	1020	3290	3570	1760	1180
25	447	300	290	250	309	270	308	881	3640	3280	2010	1140
26	448	310	290	250	306	269	329	822	4280	2930	1950	1100
27	446	320	290	260	308	267	320	919	4910	2570	1820	1040
28	448	300	290	260	295	255	352	894	5120	2400	1740	982
29	447	310	290	260	---	254	421	908	5050	2330	1660	983
30	410	320	270	280	---	259	409	1120	4740	2380	1590	987
31	389	---	270	280	---	257	---	1640	---	2300	1590	---
TOTAL	15903	10345	8830	7960	8130	8699	9346	23304	130540	143970	53990	38062
MEAN	513	345	285	257	290	281	312	752	4351	4644	1742	1269
MAX	653	427	330	280	358	337	421	1640	8850	9610	2120	1650
MIN	389	280	250	210	230	254	261	334	2150	2300	1560	982
AC-FT	31540	20520	17510	15790	16130	17250	18540	46220	258900	285600	107100	75500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

	MEAN	678	480	389	372	359	367	563	1750	3693	2890	1657	1140
MAX	1415	932	625	560	538	616	1284	2938	7259	5694	2483	1719	
(WY)	1952	1969	1972	1954	1951	1972	1952	1956	1971	1967	1951	1983	
MIN	371	298	215	179	202	226	309	729	1520	1362	853	688	
(WY)	1989	1978	1982	1982	1989	1977	1993	1977	1994	1992	1977	1994	

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1946 - 1995
ANNUAL TOTAL	279301	459079	--
ANNUAL MEAN	765	1258	1198
HIGHEST ANNUAL MEAN	--	--	1651
LOWEST ANNUAL MEAN	--	--	670
HIGHEST DAILY MEAN	3320	9610	11300
LOWEST DAILY MEAN	220	210	130
ANNUAL SEVEN-DAY MINIMUM	234	229	143
INSTANTANEOUS PEAK FLOW	--	11400	14300
INSTANTANEOUS PEAK STAGE	--	10.80	11.04a
ANNUAL RUNOFF (AC-FT)	554000	910600	868000
10 PERCENT EXCEEDS	1570	3820	2770
50 PERCENT EXCEEDS	446	409	581
90 PERCENT EXCEEDS	270	260	298

a From floodmarks.

LOCATION.--Lat 43°13'45", long 108°53'40", in SE¹/₄ SE¹/₄ sec.17, T.3 N., R.1 W., Fremont County, Hydrologic Unit 10080001, on right bank 3.3 mi downstream from diversion dam on Wind River and 15 mi southeast of Lenore.

PERIOD OF RECORD.--May 1941 to September 1945 (irrigation season only), May 1949 to September 1982, April 1988 to current year. No winter record 1977-1978, and 1988 to current year. Monthly discharge only from some periods, published in WSP 1309.

GAGE.—Water-stage recorder. Datum of gage is 5,560.85 ft above sea level. May 1, 1941 to Sept. 30, 1945, nonrecording gage at site 3.2 mi upstream at different datum. May 3, 1949 to Oct. 2, 1952, and Apr. 12 to May 15, 1971, water-stage recorder at site 3.0 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 3, 25, 26, Apr. 11, 12, and May 2. Records good except those for estimated daily discharges, which are poor. Flow used for irrigation on Riverton project. U.S. Bureau of Reclamation satellite telemeter at station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	---	---	---	.00	361	816	1370	1610	1180
2	.00	---	---	---	---	---	.00	330	844	1370	1590	1140
3	130	---	---	---	---	---	.00	307	878	1380	1570	1120
4	320	---	---	---	---	---	.00	288	858	1360	1510	1150
5	405	---	---	---	---	---	.00	298	883	1340	1340	1380
6	504	---	---	---	---	---	.00	306	990	1330	1250	1330
7	546	---	---	---	---	---	.00	312	1050	1370	1190	1200
8	495	---	---	---	---	---	.00	300	1070	1400	1300	1200
9	450	---	---	---	---	---	.00	287	1020	1370	1360	1160
10	440	---	---	---	---	---	.00	275	1020	1350	1250	1010
11	451	---	---	---	---	---	25	335	1030	1350	1280	938
12	434	---	---	---	---	---	115	403	1020	1350	1580	881
13	429	---	---	---	---	---	161	447	1030	1390	1610	824
14	420	---	---	---	---	---	221	451	1010	1430	1510	810
15	447	---	---	---	---	---	254	378	1100	1470	1360	776
16	547	---	---	---	---	---	263	486	1190	1460	1260	724
17	511	---	---	---	---	---	260	680	1140	1460	1190	706
18	484	---	---	---	---	---	246	707	1090	1520	1260	714
19	460	---	---	---	---	---	231	599	1050	1630	1430	790
20	422	---	---	---	---	---	156	555	1030	1640	1390	980
21	408	---	---	---	---	---	130	556	1030	1650	1330	954
22	397	---	---	---	---	---	131	566	1030	1680	1300	857
23	392	---	---	---	---	---	131	570	1060	1670	1290	842
24	356	---	---	---	---	---	163	562	1090	1650	1430	793
25	150	---	---	---	---	---	187	607	1120	1620	1710	754
26	5.0	---	---	---	---	---	225	634	1190	1620	1690	681
27	.00	---	---	---	---	---	275	646	1260	1630	1560	658
28	.00	---	---	---	---	---	312	645	1270	1610	1450	631
29	.00	---	---	---	---	---	384	672	1270	1630	1350	644
30	.00	---	---	---	---	---	366	727	1290	1630	1250	710
31	.00	---	---	---	---	---	---	782	---	1630	1270	---
TOTAL	9603.00	---	---	---	---	---	4236.00	15072	31729	46360	43470	27537
MEAN	310	---	---	---	---	---	141	486	1058	1495	1402	918
MAX	547	---	---	---	---	---	384	782	1290	1680	1710	1380
MIN	.00	---	---	---	---	---	.00	275	816	1330	1190	631
AC-FT	19050	---	---	---	---	---	8400	29900	62930	91960	86220	54620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941-1999, BY WATER YEAR (WY)												
MEAN	191	188	199	199	201	224	297	682	1106	1238	970	665
MAX	430	436	383	345	357	422	440	1159	1668	1736	1402	1047
(WY)	1994	1972	1958	1958	1954	1972	1980	1976	1990	1976	1995	1976
MIN	.000	.000	.000	.000	.000	.000	91.2	339	321	587	423	277
(WY)	1951	1951	1971	1971	1971	1971	1971	1942	1944	1941	1941	1994

WATER YEARS 1941 - 1995*

ANNUAL MEAN		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995	
ANNUAL MEAN		--	--	540	
HIGHEST ANNUAL MEAN		--	--	669	1972
LOWEST ANNUAL MEAN		--	--	461	1975
HIGHEST DAILY MEAN		1710	Aug 25	1860	Jun 11-12 1990
LOWEST DAILY MEAN		.00	Oct 1	.00	Many days, most years
ANNUAL SEVEN-DAY MINIMUM		--	--	.00	Many days, most years
ANNUAL RUNOFF (AC-FT)		--	--	391000	
10 PERCENT EXCEEDS		--	--	1320	
50 PERCENT EXCEEDS		--	--	416	
90 PERCENT EXCEEDS		--	--	.00	

* During period of operation.

YELLOWSTONE RIVER BASIN

06227596 JOHNSTOWN DITCH AT HEADWORKS, NEAR KINNEAR, WY

LOCATION.--Lat 43°09'02", long 108°43'41", in SW¹/₄ SE¹/₄ NW¹/₄ sec.14, T.2 N., R.1 E., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 450 ft downstream from headgate, 1.6 mi upstream from bridge on State Highway 132 and 2.5 mi west of Kinnear.

PERIOD OF RECORD.--May 1991 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of the gage is 5,310 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow is diverted from the Wind River for irrigation. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	12	9.7	29	21
2	---	---	---	---	---	---	---	---	6.5	9.7	27	21
3	---	---	---	---	---	---	---	---	2.9	9.7	26	21
4	---	---	---	---	---	---	---	---	.74	9.7	21	21
5	---	---	---	---	---	---	---	---	12	9.7	24	22
6	---	---	---	---	---	---	---	---	19	9.4	23	20
7	---	---	---	---	---	---	---	---	15	14	25	20
8	---	---	---	---	---	---	---	---	12	20	25	20
9	---	---	---	---	---	---	---	---	12	19	24	21
10	---	---	---	---	---	---	---	---	11	20	26	21
11	---	---	---	---	---	---	---	---	10	20	28	21
12	---	---	---	---	---	---	---	---	15	20	28	21
13	---	---	---	---	---	---	---	---	16	20	28	21
14	---	---	---	---	---	---	---	---	12	21	28	20
15	---	---	---	---	---	---	---	---	12	23	27	20
16	---	---	---	---	---	---	---	---	12	21	26	21
17	---	---	---	---	---	---	---	---	12	20	26	21
18	---	---	---	---	---	---	---	---	11	18	27	21
19	---	---	---	---	---	---	---	---	11	21	27	19
20	---	---	---	---	---	---	---	---	10	23	27	16
21	---	---	---	---	---	---	---	---	14	23	26	16
22	---	---	---	---	---	---	---	5.1	14	23	26	13
23	---	---	---	---	---	---	---	7.4	13	22	26	11
24	---	---	---	---	---	---	---	5.5	13	22	25	11
25	---	---	---	---	---	---	---	6.7	13	27	23	11
26	---	---	---	---	---	---	---	5.7	12	30	23	9.4
27	---	---	---	---	---	---	---	6.6	11	29	22	9.1
28	---	---	---	---	---	---	---	7.7	10	29	22	8.2
29	---	---	---	---	---	---	---	7.3	10	29	22	8.3
30	---	---	---	---	---	---	---	7.8	9.7	29	21	7.9
31	---	---	---	---	---	---	---	6.0	---	29	21	---
TOTAL	---	---	---	---	---	---	---	65.8	343.84	629.9	779	513.9
MEAN	---	---	---	---	---	---	---	6.58	11.5	20.3	25.1	17.1
MAX	---	---	---	---	---	---	---	7.8	19	30	29	22
MIN	---	---	---	---	---	---	---	5.1	.74	9.4	21	7.9
AC-FT	---	---	---	---	---	---	---	131	682	1250	1550	1020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995
MEAN	1.25	---	---	---	---
MAX	1.73	---	---	---	---
(WY)	1993	---	---	---	---
MIN	.76	---	---	---	---
(WY)	1994	---	---	---	---

SUMMARY STATISTICS

HIGHEST DAILY MEAN

LOWEST DAILY MEAN

ANNUAL SEVEN-DAY MINIMUM

INSTANTANEOUS PEAK FLOW

INSTANTANEOUS PEAK STAGE

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

FOR 1995 WATER YEAR*

30 Jul 26

.74 Jun 4

6.2 May 29

47 Jun 5

1.94 Jun 5

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--

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WATER YEARS 1991 - 1995*

48 Jun 25 1991

.00 Many days,

.00 Many days,

54 Jun 24 1991

52.00 May 31 1994

31

19

1.2

* During period of operation.

YELLOWSTONE RIVER BASIN

57

06227600 WIND RIVER NEAR KINNEAR, WY

LOCATION.--Lat 43°08'34", long 108°42'32", in SW¹/₄ SE¹/₄ SW¹/₄ sec.13, T.2 N., R.1 E., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on right bank, 200 ft upstream from bridge on Wyoming State Secondary Highway 132, and 1.7 mi southwest of Kinnear.

DRAINAGE AREA.--2,194 mi².

PERIOD OF RECORD.--April 1974 to September 1979 (no winter records), April 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,280 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 15 to May 3, June 15-21, and July 27 to Aug. 7. Records fair except those for estimated daily discharges, which are poor. Some regulation by Bull Lake beginning in 1938 (see station 06224500) and Pilot-Butte Reservoir beginning in 1926, combined capacity, 182,000 acre-ft. Diversions upstream from station for irrigation of about 102,100 acres lying both upstream and downstream from station. The Wyoming Canal of the Riverton Project is the major diversion. This diversion began in 1926 and part of it can be returned to the river upstream from station through Pilot Wasteway. Additional waste water returns to river downstream from station through Fivemile and Muddy Creeks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	482	408	310	230	260	270	260	100	1560	5170	1100	410
2	469	460	310	200	260	260	260	92	1700	5290	920	413
3	441	477	310	200	270	240	260	200	2990	5670	750	402
4	288	440	300	200	270	240	260	391	4560	5650	700	402
5	246	394	310	200	270	250	270	262	4350	4680	620	473
6	217	431	300	210	275	250	280	229	5850	4550	660	415
7	167	464	290	220	290	260	260	247	6290	5340	670	404
8	139	476	280	230	315	270	240	211	3900	6800	639	360
9	138	459	280	240	310	280	230	171	2870	6980	588	394
10	143	429	280	250	300	290	220	150	1860	7240	574	391
11	121	462	280	260	230	320	180	186	1270	7680	563	391
12	91	442	280	270	190	360	150	175	1870	8830	574	388
13	87	447	290	270	200	375	120	255	4650	10500	537	384
14	85	400	290	270	210	360	115	223	7150	10400	525	379
15	88	360	310	270	220	350	125	140	8530	8860	518	375
16	104	350	309	270	225	340	140	186	9000	6020	497	397
17	111	350	300	260	240	330	150	367	7060	4310	487	420
18	105	320	290	250	250	330	180	417	5500	3480	488	423
19	94	270	280	250	260	320	200	512	5000	2710	490	418
20	81	240	270	240	280	320	190	531	4800	2760	478	409
21	77	260	270	240	300	310	192	647	4670	2730	477	421
22	76	240	270	230	300	310	175	819	4540	3120	477	395
23	75	260	270	230	290	290	160	998	3540	3190	472	395
24	75	270	270	230	290	290	155	665	3160	2920	462	395
25	194	290	280	230	290	290	150	400	3630	2630	476	371
26	479	300	270	230	290	290	140	269	4680	2380	489	291
27	474	300	270	240	290	280	130	303	5830	2010	452	270
28	476	290	270	240	280	280	120	312	6520	1900	449	210
29	486	310	260	240	---	270	110	271	6420	1800	436	217
30	465	310	240	240	---	270	105	345	5320	1900	415	207
31	426	---	240	250	---	270	---	667	---	1350	414	---
TOTAL	7000	10909	8779	7390	7455	9165	5527	10741	139070	148850	17397	11220
MEAN	226	364	283	238	266	296	184	346	4636	4802	561	374
MAX	486	477	310	270	315	375	280	998	9000	10500	1100	473
MIN	75	240	240	200	190	240	105	92	1270	1350	414	207
AC-FT	13880	21640	17410	14660	14790	18180	10960	21300	275800	295200	34510	22250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

	1992	1993	1994	1995	1992	1993	1994	1995	1992	1993	1994	1995
MEAN	239	385	289	257	266	268	226	675	1900	1587	452	364
MAX	317	405	333	301	313	316	314	1267	4636	4802	561	394
(WY)	1992	1994	1994	1994	1992	1994	1994	1993	1995	1995	1995	1994
MIN	188	364	240	193	224	194	170	346	400	379	373	303
(WY)	1993	1995	1993	1993	1993	1992	1992	1995	1994	1994	1994	1992

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1992 - 1995
ANNUAL TOTAL	128816	383503	--
ANNUAL MEAN	353	1051	576
HIGHEST ANNUAL MEAN	--	--	1051
LOWEST ANNUAL MEAN	--	--	361
HIGHEST DAILY MEAN	2310	10500	10500
LOWEST DAILY MEAN	75	75	28
ANNUAL SEVEN-DAY MINIMUM	83	83	79
INSTANTANEOUS PEAK FLOW	--	12100	13900
INSTANTANEOUS PEAK STAGE	--	8.40a	8.40a
ANNUAL RUNOFF (AC-FT)	255500	760700	417600
10 PERCENT EXCEEDS	468	4060	716
50 PERCENT EXCEEDS	339	300	332
90 PERCENT EXCEEDS	230	169	175

For period of record, 1974-79, 1992-95.

a From floodmark.

YELLOWSTONE RIVER BASIN

06227810 LEPHAND DITCH AT HEADWORKS, NEAR RIVERTON, WY

LOCATION.--Lat 43°01'34", long 108°31'12", in NE¹/₄ NE¹/₄ NE¹/₄ sec.33, T.1 N., R.3 E., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 0.6 mi downstream from headgates and 6.9 mi west of Riverton.

PERIOD OF RECORD.--May 1991 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,060 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: May 26. Records good. Flow is diverted from Wind River for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	9.4	17	29	27
2	---	---	---	---	---	---	---	---	11	14	28	27
3	---	---	---	---	---	---	---	---	12	11	27	26
4	---	---	---	---	---	---	---	---	3.8	8.8	25	27
5	---	---	---	---	---	---	---	---	2.8	12	25	28
6	---	---	---	---	---	---	---	---	14	16	26	28
7	---	---	---	---	---	---	---	---	13	18	27	28
8	---	---	---	---	---	---	---	---	4.3	19	28	27
9	---	---	---	---	---	---	---	---	4.2	18	28	28
10	---	---	---	---	---	---	---	---	3.8	19	28	29
11	---	---	---	---	---	---	---	---	3.4	23	28	28
12	---	---	---	---	---	---	---	---	3.1	25	28	28
13	---	---	---	---	---	---	---	---	3.0	26	28	28
14	---	---	---	---	---	---	---	---	4.0	27	28	28
15	---	---	---	---	---	---	---	---	4.2	22	28	27
16	---	---	---	---	---	---	---	---	15	19	28	26
17	---	---	---	---	---	---	---	---	21	17	28	19
18	---	---	---	---	---	---	---	---	21	11	28	11
19	---	---	---	---	---	---	---	---	20	6.7	29	9.1
20	---	---	---	---	---	---	---	---	20	5.6	29	6.6
21	---	---	---	---	---	---	---	---	20	20	29	6.2
22	---	---	---	---	---	---	---	---	20	29	29	5.8
23	---	---	---	---	---	---	---	---	19	30	29	5.6
24	---	---	---	---	---	---	---	---	19	30	28	5.3
25	---	---	---	---	---	---	---	---	19	30	28	5.0
26	---	---	---	---	---	---	---	5.4	19	29	28	4.9
27	---	---	---	---	---	---	---	8.0	19	29	28	4.7
28	---	---	---	---	---	---	---	8.1	19	29	28	4.2
29	---	---	---	---	---	---	---	7.8	18	30	28	4.8
30	---	---	---	---	---	---	---	8.0	18	29	27	---
31	---	---	---	---	---	---	---	8.5	---	30	27	---
TOTAL	---	---	---	---	---	---	---	45.8	383.0	650.1	862	532.2
MEAN	---	---	---	---	---	---	---	7.63	12.8	21.0	27.8	18.4
MAX	---	---	---	---	---	---	---	8.5	21	30	29	29
MIN	---	---	---	---	---	---	---	5.4	2.8	5.6	25	4.2
AC-FT	---	---	---	---	---	---	---	91	760	1290	1710	1060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1991	.60	.87	1994	.33	1993
1992	.60	.60	1992	.60	1992
1993	.60	.60	1992	.60	1992
1994	.60	.60	1992	.60	1992
1995	.60	.60	1992	.60	1992

SUMMARY STATISTICS

HIGHEST DAILY MEAN

LOWEST DAILY MEAN

FOR 1995 WATER YEAR*

30 Jul 23

2.8 Jun 5

WATER YEARS 1991 - 1995*

59 Jun 13 1991

.00 Many days,

each year

74a Jun 13 1991

2.74 Jul 23 1994

42

27

.00

* During period of operation.

a Gage height, 2.73 ft.

LOCATION.--Lat 43°00'38", long 108°22'32", in NE1/4 NW1/4 NW1/4 sec.2, T.1 S., R.4 E., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 265 ft downstream from bridge on State Highway 789, 1.1 mi southeast of post office in Riverton, and 1.5 mi upstream from Little Wind River.

DRAINAGE AREA.--2,309 mi².

PERIOD OF RECORD.--May to August 1906, August to December 1907, May to October 1908, May 1911 to current year. Monthly discharge only for some periods, published in WSP 1309. Published as Big Wind River near Arapahoe Agency 1906 and as Big Wind River near Riverton 1907-08.

GAGE.--Water-stage recorder. Datum of gage is 4,901.56 ft above sea level. See WSP 1729 for history of changes prior to Oct. 13, 1930. Oct. 13, 1930 to Apr. 15, 1968, water-stage recorder at site 280 ft upstream at datum 2.00 ft higher. Apr. 16 to Nov. 17, 1968, water-stage recorder at site 880 ft upstream at datum 2.00 ft higher. Nov. 18, 1968 to July 28, 1970, water-stage recorder at site 225 ft upstream at datum 2.00 ft higher. July 29, 1970 to Sept. 30, 1977, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges: Nov. 4-6 and Nov. 18 to Mar. 14. Records fair except those for estimated daily discharges, which are poor. Some regulation by Bull Lake beginning in 1938 (see station 06224500) and Pilot Butte Reservoir beginning in 1926, combined capacity, 182,000 acre-ft. Diversions upstream from station for irrigation of about 128,000 acres upstream and downstream from station. The Wyoming canal of the Riverton project is the major diversion. This diversion began in 1926 and part of it can be returned to the river upstream from station through Pilot wasteway. Additional waste water returns to river downstream from station through Fivemile and Muddy Creeks. U. S. Bureau of Reclamation satellite telemeter at station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257	408	170	240	210	200	289	125	1150	4100	509	97
2	340	448	180	230	220	200	298	80	1390	4140	353	106
3	421	482	170	230	210	210	302	149	2070	4120	222	109
4	288	450	160	220	210	230	309	291	3620	4380	185	116
5	233	380	160	220	210	250	325	194	3590	3720	48	124
6	227	400	150	220	210	260	342	148	3920	3450	60	164
7	174	456	160	230	220	240	324	160	5160	3640	102	122
8	145	466	160	240	220	230	318	146	3790	4390	174	106
9	142	459	160	250	220	280	325	128	3170	4660	136	90
10	104	428	150	260	210	380	302	117	2260	4660	123	106
11	92	449	160	250	200	400	281	129	1590	4810	127	105
12	109	442	160	250	180	480	152	151	1950	5260	140	98
13	85	436	170	230	160	550	143	231	3600	5950	138	93
14	87	404	180	230	140	420	131	211	5210	6860	120	92
15	92	371	190	240	120	356	118	140	6530	6190	121	88
16	144	373	200	200	130	347	129	116	7160	4320	107	85
17	234	385	210	150	140	374	125	225	6740	3030	97	125
18	213	360	220	130	160	381	118	313	5830	2300	90	139
19	171	310	210	119	190	359	133	356	4710	1650	90	164
20	146	260	220	120	210	342	171	454	4070	1560	94	227
21	135	320	210	110	220	334	184	520	3940	1620	98	219
22	132	330	210	100	230	323	178	748	4140	1700	112	276
23	127	150	210	92	240	331	188	899	3790	1860	124	250
24	127	170	230	84	250	329	195	599	3280	1610	115	302
25	126	190	250	94	260	315	153	406	3380	1410	125	296
26	403	200	270	110	270	305	154	273	3830	1240	153	220
27	483	180	280	160	280	305	137	253	4420	946	148	192
28	481	180	270	200	230	304	120	325	4980	709	144	145
29	486	170	270	230	---	293	106	259	5150	638	129	135
30	476	170	260	210	---	291	107	244	4530	609	104	160
31	429	---	250	200	---	292	---	514	---	592	96	---
TOTAL	7109	10227	6250	5849	5750	9911	6157	8904	118950	96124	4384	4551
MEAN	229	341	202	189	205	320	205	287	3965	3101	141	152
MAX	486	482	280	260	280	550	342	899	7160	6860	509	302
MIN	85	150	150	84	120	200	106	80	1150	592	48	85
AC-FT	14100	20290	12400	11600	11410	19660	12210	17660	235900	190700	8700	9030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1993, BY WATER YEAR (WY)												
MEAN	605	446	348	330	332	347	423	1252	2850	1774	705	501
MAX	1500	895	559	539	531	650	1234	4618	7194	5802	3052	1794
(WY)	1952	1969	1972	1972	1948	1916	1943	1928	1921	1917	1930	1927
MIN	152	222	200	151	196	74.9	53.8	72.6	68.6	20.3	42.8	35.7
(WY)	1993	1941	1932	1938	1981	1981	1989	1989	1994	1994	1994	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1912 - 1995	
ANNUAL TOTAL	74746		284166		--	
ANNUAL MEAN	205		779		817	
HIGHEST ANNUAL MEAN	--		--		1626	1913
LOWEST ANNUAL MEAN	--		--		195	1988
HIGHEST DAILY MEAN	1990	May 14	7160	Jun 16	11400	Jun 14 1935
LOWEST DAILY MEAN	14	Jul 13	48	Aug 5	9.8	May 28 1977
ANNUAL SEVEN-DAY MINIMUM	16	Jul 11	95	Sep 10	12	Jul 13 1977
INSTANTANEOUS PEAK FLOW	--		7640	Jun 16	13300a	Jun 15 1935
INSTANTANEOUS PEAK STAGE	--		9.92	Jun 16	10.80b	Dec 30 1983
ANNUAL RUNOFF (AC-FT)	148300		563600		591800	
10 PERCENT EXCEEDS	428		3510		2090	
50 PERCENT EXCEEDS	175		230		404	
90 PERCENT EXCEEDS	32		110		175	

a Gage height, 10.15 ft, present datum from rating curve extended above 7,200 ft³/s.
b Backwater from ice.

YELLOWSTONE RIVER BASIN

06228000 WIND RIVER AT RIVERTON, WY--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947-58, 1960 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
NOV 09...	1200	456	400	8.7	2.0	1.5	637	4.4	12.4	108
JAN 19...	1155	119	462	8.3	0.0	-15.0	641	4.0	11.6	95
MAR 17...	1000	389	435	8.6	4.0	7.0	640	20	11.3	103
MAY 25...	1350	396	350	8.4	10.0	9.0	638	79	9.4	100
JUN 14...	1430	5230	175	8.1	15.5	29.0	638	290	8.3	100
AUG 08...	1000	165	319	8.4	19.0	20.0	638	18	10.1	131

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)
NOV 09...	K13	65	180	50	14	22	0.7	2.5	191	7
JAN 19...	K1	K14	200	57	15	23	0.7	2.7	230	0
MAR 17...	<1	38	180	50	14	23	0.7	3.1	200	3
MAY 25...	100	140	130	36	9.0	21	0.8	2.1	134	1
JUN 14...	740	2000	72	21	4.6	7.8	0.4	1.7	77	0
AUG 08...	310	830	120	34	7.7	20	0.8	2.0	122	0

DATE	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)
NOV 09...	168	175	57	3.8	0.3	15	251	266	0.34	309
JAN 19...	189	191	64	4.5	0.3	17	303	298	0.41	97.4
MAR 17...	168	177	61	4.8	0.3	14	291	272	0.40	306
MAY 25...	111	118	57	3.4	0.2	15	225	211	0.31	241
JUN 14...	63	77	18	1.4	0.2	12	120	105	0.16	1690
AUG 08...	100	110	46	3.2	0.2	13	204	187	0.28	90.9

YELLOWSTONE RIVER BASIN

61

06228000 WIND RIVER AT RIVERTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
NOV 09...	<0.01	<0.05	<0.02	<0.20	0.02	<0.01	10	63	<3	8
JAN 19...	<0.01	0.18	0.03	<0.20	0.02	<0.01	20	64	<3	3
MAR 17...	<0.01	<0.05	<0.02	0.30	0.13	0.01	10	63	<3	9
MAY 25...	<0.01	0.10	0.03	0.20	0.12	0.02	<10	58	<3	110
JUN 14...	<0.01	0.06	0.02	0.40	0.13	0.02	40	40	<3	24
AUG 08...	<0.01	0.07	<0.02	0.20	0.04	<0.01	30	51	<3	11

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	SEDI- MENT, SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)
NOV 09...	13	5	<10	<1	<1	<1.0	290	<6	149	183
JAN 19...	13	5	<10	<1	<1	<1.0	290	<6	133	43
MAR 17...	17	9	<10	<1	<1	<1.0	270	<6	573	602
MAY 25...	10	5	10	<1	<1	<1.0	260	<6	298	319
JUN 14...	<4	5	20	<1	<1	<1.0	130	<6	1880	26500
AUG 08...	6	6	20	2	<1	<1.0	200	<6	51	23

YELLOWSTONE RIVER BASIN

06228350 SOUTH FORK LITTLE WIND RIVER ABOVE WASHAKIE RESERVOIR, NEAR FORT WASHAKIE, WY

LOCATION.--Lat 42°58'06", long 109°02'13", in SE¹/₄ SW¹/₄ SE¹/₄ sec.18, T.1 S., R.2 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on right bank 1.9 mi upstream from Washakie Dam and 8.0 mi southwest of Fort Washakie.

DRAINAGE AREA.--90.3 mi².

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,440 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 5-10. Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 740 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 6	0715	1,020	5.85	June 28	0245	1,540	6.86
June 15	0030	*1,970	*7.63	July 13	0145	1,700	7.16

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	41	27	18	14	13	22	41	251	963	324	89
2	34	35	26	18	15	13	24	45	376	955	274	84
3	39	31	26	17	15	13	23	47	518	1010	250	83
4	42	29	27	16	16	14	25	48	527	821	242	82
5	46	38	28	15	15	15	26	60	650	687	231	90
6	51	38	30	15	15	15	30	61	916	808	220	91
7	50	39	31	15	14	15	34	53	636	1050	220	90
8	47	39	33	15	14	15	37	54	450	1200	223	93
9	45	38	33	16	13	16	30	54	340	1180	212	89
10	43	42	33	16	13	17	29	77	273	1260	191	83
11	41	40	33	16	13	29	27	87	298	1280	275	82
12	39	39	31	17	12	31	30	91	580	1460	297	75
13	39	37	30	17	12	25	36	78	1140	1500	252	70
14	38	32	29	17	13	24	48	69	1560	1090	210	65
15	41	31	28	17	14	27	36	107	1730	799	177	61
16	49	38	26	18	14	31	36	158	1630	684	156	58
17	60	34	24	18	14	29	34	169	1260	633	153	56
18	69	34	23	19	14	30	32	160	977	628	159	56
19	61	37	24	20	14	30	33	182	861	625	151	65
20	57	40	24	19	14	28	31	198	920	644	133	68
21	57	34	24	18	14	30	32	210	1020	617	122	68
22	51	29	23	17	13	28	32	207	1010	609	116	65
23	49	30	22	16	13	26	34	145	913	556	125	60
24	46	33	22	16	13	26	32	120	949	502	151	61
25	45	30	22	15	13	22	35	106	1030	470	165	60
26	46	30	21	15	14	25	33	106	1070	432	155	57
27	48	30	21	15	14	24	33	120	1270	410	137	55
28	47	28	20	15	13	23	42	142	1340	423	124	52
29	35	29	20	15	---	23	43	131	1140	416	113	52
30	33	28	19	15	---	21	42	133	901	420	104	62
31	38	---	18	14	---	23	---	190	---	391	96	---
TOTAL	1419	1033	798	510	385	701	981	3449	26536	24523	5758	2122
MEAN	45.8	34.4	25.7	16.5	13.7	22.6	32.7	111	885	791	186	70.7
MAX	69	42	33	20	16	31	48	210	1730	1500	324	93
MIN	33	28	18	14	12	13	22	41	251	391	96	52
AC-FT	2810	2050	1580	1010	764	1390	1950	6840	52630	48640	11420	4210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1977	42.4	94.3	1983	14.5	1989
1978	28.6	48.4	1991	15.7	1989
1979	22.4	30.6	1978	11.8	1977
1980	16.0	25.1	1978	6.05	1977
1981	13.7	26.1	1986	6.72	1977
1982	17.1	34.1	1986	9.60	1977
1983	51.2	94.6	1987	29.2	1982
1984	248	403	1987	111	1995
1985	564	1066	1986	242	1994
1986	325	791	1995	81.0	1988
1987	109	197	1982	30.7	1988
1988	55.6	82.9	1984	20.0	1988

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1977 - 1995
ANNUAL TOTAL	29177	68215	--
ANNUAL MEAN	79.9	187	125
HIGHEST ANNUAL MEAN	--	--	188
LOWEST ANNUAL MEAN	--	--	71.2
HIGHEST DAILY MEAN	577	1730	1960
LOWEST DAILY MEAN	11	12	4.5
ANNUAL SEVEN-DAY MINIMUM	12	13	4.5
INSTANTANEOUS PEAK FLOW	--	1970	2230
INSTANTANEOUS PEAK STAGE	--	7.63	8.48
ANNUAL RUNOFF (AC-FT)	57870	135300	90360
10 PERCENT EXCEEDS	233	646	372
50 PERCENT EXCEEDS	38	40	37
90 PERCENT EXCEEDS	13	15	14

YELLOWSTONE RIVER BASIN

63

06228450 SOUTH FORK LITTLE WIND RIVER BELOW WASHAKIE RESERVOIR, NEAR FORT WASHAKIE, WY

LOCATION.--Lat 42°59'04", long 108°59'57", in SW¹/₄ SW¹/₄ SE¹/₄ sec.9, T.1 S., R.2 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on right bank 0.7 mi downstream from Washakie Reservoir, 2.3 mi upstream from Timmoco Creek, and 6.2 mi west of Fort Washakie.

DRAINAGE AREA.--93.5 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,280 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 19 to Dec. 19, Jan. 16-27, and Feb. 15-17. Records good except those for estimated discharges, which are poor. Flow regulated by Washakie Reservoir.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	37	16	18	24	16	17	45	193	853	389	218
2	34	33	16	18	24	16	17	46	201	885	385	211
3	39	33	17	18	24	16	17	46	219	941	267	201
4	33	33	17	18	24	16	17	63	232	836	205	192
5	17	33	16	18	24	16	17	80	242	781	230	188
6	23	33	16	18	24	16	17	79	257	775	230	188
7	27	33	15	18	24	16	18	79	299	779	231	194
8	27	34	15	19	24	16	18	79	405	938	231	184
9	27	33	14	19	24	16	17	79	455	1120	231	176
10	27	33	14	19	20	16	17	79	450	1230	247	166
11	27	33	14	19	16	16	17	79	442	1250	258	112
12	27	33	13	18	16	16	17	80	469	1490	258	43
13	27	34	14	22	16	16	17	81	564	1540	258	30
14	31	34	14	30	16	16	18	81	634	1140	256	30
15	36	34	14	30	16	16	18	81	812	869	256	31
16	35	34	14	29	16	16	18	83	1650	849	255	31
17	35	34	15	29	16	16	18	134	1280	808	253	30
18	42	25	15	29	16	16	18	213	932	672	250	25
19	52	16	16	28	16	16	18	213	771	583	248	25
20	51	16	17	28	16	16	34	213	787	584	246	26
21	50	16	17	27	16	17	49	213	871	583	241	26
22	50	16	17	27	16	17	48	217	923	582	248	26
23	49	16	17	26	16	17	47	216	828	580	257	27
24	48	16	17	26	16	17	46	212	820	490	254	28
25	48	16	17	25	16	17	46	208	894	417	251	28
26	46	16	18	25	16	17	46	205	928	416	249	28
27	46	16	18	25	16	17	45	200	1150	415	245	28
28	44	16	18	25	16	17	46	196	1330	406	239	29
29	44	16	18	25	---	17	45	193	1160	390	234	38
30	43	16	18	24	---	17	46	190	853	391	227	56
31	41	---	18	24	---	17	---	190	---	390	221	---
TOTAL	1160	788	495	724	524	507	829	4173	21051	23983	7850	2615
MEAN	37.4	26.3	16.0	23.4	18.7	16.4	27.6	135	702	774	253	87.2
MAX	52	37	18	30	24	17	49	217	1650	1540	389	218
MIN	17	16	13	18	16	16	17	45	193	390	205	25
AC-FT	2300	1560	982	1440	1040	1010	1640	8280	41750	47570	15570	5190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995
MEAN	28.2	26.7	21.3	17.0	13.3	13.6	29.9
MAX	38.7	40.6	36.7	23.8	18.7	21.8	71.4
(WY)	1991	1991	1991	1991	1995	1994	1994
MIN	18.8	4.68	5.19	6.18	7.19	6.65	5.07
(WY)	1989	1989	1989	1989	1989	1991	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1989 - 1995
ANNUAL TOTAL	29460	64699	--
ANNUAL MEAN	80.7	177	118
HIGHEST ANNUAL MEAN	--	--	177
LOWEST ANNUAL MEAN	--	--	80.1
HIGHEST DAILY MEAN	461	Jun 2	1930
LOWEST DAILY MEAN	10	Feb 26	13
ANNUAL SEVEN-DAY MINIMUM	11	Feb 20	14
INSTANTANEOUS PEAK FLOW	--	--	1850
INSTANTANEOUS PEAK STAGE	--	--	5.76
ANNUAL RUNOFF (AC-FT)	58430	128300	85270
10 PERCENT EXCEEDS	258	583	309
50 PERCENT EXCEEDS	33	33	33
90 PERCENT EXCEEDS	11	16	9.8

YELLOWSTONE RIVER BASIN

06228510 RAY CANAL AT HEADWORKS, NEAR FORT WASHAKIE, WY

LOCATION.--Lat 43°00'02", long 108°55'56", in NW¹/₄ SW¹/₄ SW¹/₄ sec.6, T.1 S., R.1 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on right bank 160 ft downstream from headgate, 300 ft upstream from culvert on County Road 43, 2.0 mi upstream from Crooked Creek, and 2.4 mi west of Fort Washakie.

PERIOD OF RECORD.--April 1989 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,710 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 14-30. Records good except those for estimated daily discharge, which are poor. Flow is diverted from the South Fork Little Wind River for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	52	---	---	---	---	2.2	41	18	130	289	222
2	41	49	---	---	---	---	2.2	42	18	135	289	217
3	48	47	---	---	---	---	2.1	41	18	138	235	211
4	50	50	---	---	---	---	2.0	32	19	137	195	203
5	32	50	---	---	---	---	2.0	36	19	178	214	195
6	37	50	---	---	---	---	2.0	36	19	206	212	191
7	42	50	---	---	---	---	1.9	36	19	221	213	201
8	42	51	---	---	---	---	2.0	35	15	261	217	193
9	41	48	---	---	---	---	1.9	35	6.9	288	219	183
10	41	47	---	---	---	---	13	35	6.4	308	232	172
11	40	46	---	---	---	---	19	34	6.4	221	249	135
12	39	47	---	---	---	---	19	34	6.2	169	252	59
13	39	48	---	---	---	---	19	26	5.4	207	249	25
14	41	47	---	---	---	---	19	20	4.7	213	248	12
15	50	47	---	---	---	---	19	20	4.1	198	249	12
16	54	47	---	---	---	---	21	19	.88	198	248	12
17	57	47	---	---	---	---	20	19	.23	213	248	12
18	56	20	---	---	---	---	20	20	.20	210	246	11
19	67	2.2	---	---	---	---	18	19	.20	207	240	11
20	66	2.1	---	---	---	---	21	20	.20	301	241	11
21	65	2.0	---	---	---	---	43	19	.20	342	240	11
22	64	2.0	---	---	---	---	44	19	19	341	237	11
23	62	2.1	---	---	---	---	43	19	45	340	253	11
24	61	2.1	---	---	---	---	42	19	57	270	257	11
25	60	2.0	---	---	---	---	44	19	59	210	258	11
26	60	2.0	---	---	---	---	44	19	84	221	255	12
27	59	2.0	---	---	---	---	43	19	107	227	246	13
28	58	2.0	---	---	---	---	44	19	108	293	241	13
29	55	2.0	---	---	---	---	42	18	104	350	238	6.2
30	54	2.0	---	---	---	---	42	18	115	350	233	2.4
31	53	---	---	---	---	---	---	18	---	313	228	---
TOTAL	1572	867.5	---	---	---	---	657.3	806	885.01	7396	7471	2389.6
MEAN	50.7	28.9	---	---	---	---	21.9	26.0	29.5	239	241	79.7
MAX	67	52	---	---	---	---	44	42	115	350	289	222
MIN	32	2.0	---	---	---	---	1.9	18	.20	130	195	2.4
AC-FT	3120	1720	---	---	---	---	1300	1600	1760	14670	14820	4740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995
MEAN	30.6	21.6	---	---	---	---	---
MAX	50.7	28.9	---	---	---	---	---
(WY)	1995	1995	---	---	---	---	---
MIN	.81	14.2	---	---	---	---	---
(WY)	1994	1993	---	---	---	---	---

SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1989 - 1995*
HIGHEST DAILY MEAN	350 Jul 29, 30	377 May 26 1992
LOWEST DAILY MEAN	.20 Jun 18-21	.00 Apr 1 1991
ANNUAL SEVEN-DAY MINIMUM	--	.36 Nov 24 1992
INSTANTANEOUS PEAK FLOW	366a Jul 28	444 Jun 23 1990
INSTANTANEOUS PEAK STAGE	3.80 Jul 28	4.07 Jun 23 1990
10 PERCENT EXCEEDS	--	261
50 PERCENT EXCEEDS	--	115
90 PERCENT EXCEEDS	--	1.4

* During period of operation.

a Observed.

YELLOWSTONE RIVER BASIN

65

06228800 NORTH FORK LITTLE WIND RIVER NEAR FORT WASHAKIE, WY

LOCATION.--Lat 43°01'43", long 109°00'02", in NW¹/₄ SW¹/₄ SE¹/₄ sec.28, T.1 N., R.2 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank 0.2 mi upstream from North Fork Diversion Canal and 5.9 mi northeast of Fort Washakie.

DRAINAGE AREA.--112 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,120 ft above sea level, from topographic map. Prior to Oct. 21, 1993, at site 2,000 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 30 to Mar. 9. Records fair except those for estimated daily discharges, which are poor. Diversions for irrigation of 80 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	43	28	20	19	23	35	54	280	998	323	128
2	42	40	29	18	20	22	35	55	394	1010	294	123
3	45	36	31	16	21	22	34	63	561	1050	268	120
4	49	34	31	14	22	23	37	63	606	933	249	118
5	54	32	31	12	22	24	36	74	702	793	240	121
6	58	34	29	13	23	25	40	78	952	804	226	121
7	58	35	28	15	22	26	46	71	936	949	216	118
8	58	36	27	17	21	27	50	69	769	1050	204	125
9	58	37	25	18	20	26	38	67	633	1030	191	128
10	59	36	24	19	20	27	35	86	535	1060	190	120
11	57	35	23	20	19	59	33	110	527	1110	206	102
12	56	34	24	21	17	65	36	122	643	1270	207	99
13	54	33	25	22	16	51	37	124	1050	1320	218	96
14	52	34	26	21	14	47	50	105	1490	1080	217	92
15	55	35	26	21	13	46	42	147	1560	834	207	90
16	62	36	27	20	14	53	39	190	1510	695	187	86
17	67	37	27	18	15	50	39	213	1260	616	175	82
18	69	36	28	17	16	51	38	200	1010	577	165	81
19	69	35	28	18	17	52	41	211	839	577	157	87
20	68	33	29	17	19	47	38	229	857	643	151	85
21	68	32	29	16	20	49	38	258	924	613	144	86
22	66	30	28	15	21	46	40	254	897	605	138	86
23	63	31	27	15	22	42	41	194	784	577	135	88
24	59	32	26	16	24	41	41	172	804	524	144	87
25	56	33	27	16	25	36	41	159	877	477	149	87
26	56	31	28	17	25	39	43	163	936	441	160	84
27	55	30	28	18	25	38	42	197	1070	405	167	82
28	54	29	28	19	24	37	54	225	1150	379	165	78
29	48	28	26	18	---	36	58	210	1090	367	158	77
30	43	27	24	17	---	36	56	194	934	356	147	87
31	43	---	22	18	---	37	---	238	---	341	136	---
TOTAL	1742	1014	839	542	556	1203	1233	4595	26580	23484	5934	2964
MEAN	56.2	33.8	27.1	17.5	19.9	38.8	41.1	148	886	758	191	98.8
MAX	69	43	31	22	25	65	58	258	1560	1320	323	128
MIN	41	27	22	12	13	22	33	54	280	341	135	77
AC-FT	3460	2010	1660	1080	1100	2390	2450	9110	52720	46580	11770	5880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995
MEAN	45.0	30.6	21.5	16.4	15.8	23.4	49.9
MAX	64.6	42.5	27.1	22.3	19.9	38.8	84.5
(WY)	1990	1990	1995	1991	1995	1995	1994
MIN	13.5	14.7	13.6	8.95	8.52	16.1	27.5
(WY)	1989	1989	1989	1989	1989	1990	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1989 - 1995
ANNUAL TOTAL	29456	70686	--
ANNUAL MEAN	80.7	194	128
HIGHEST ANNUAL MEAN	--	--	194
LOWEST ANNUAL MEAN	--	--	76.1
HIGHEST DAILY MEAN	454	May 13	2070
LOWEST DAILY MEAN	12	Feb 9	6.5
ANNUAL SEVEN-DAY MINIMUM	13	Feb 5	7.4
INSTANTANEOUS PEAK FLOW	--	1730	2360a
INSTANTANEOUS PEAK STAGE	--	6.94	6.94
ANNUAL RUNOFF (AC-FT)	58430	140200	92520
10 PERCENT EXCEEDS	231	729	340
50 PERCENT EXCEEDS	39	52	41
90 PERCENT EXCEEDS	17	20	15

a Gage height, 6.20 ft, site and datum then in use.

06229680 SAGE CREEK ABOVE NORKOK MEADOWS CREEK, NEAR FORT WASHAKIE, WY

LOCATION.--Lat 43°05'47", long 108°54'29", in NE¹/₄ NW¹/₄ NW¹/₄ sec.5, T.1 N., R.1 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank 60 ft upstream from U.S. Highway 287, 1.5 mi upstream from Norkok Meadows Creek, and 6.9 mi north of Fort Washakie.

DRAINAGE AREA.--118 mi² (at site prior to Oct. 25, 1991).

PERIOD OF RECORD.--July 1990 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of the gage is 5,660 ft above sea level, from topographic map. Prior to Oct. 25, 1991, at site 1.5 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 4 to May 4. Records fair, except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.8	5.6	3.2	4.7	3.5	3.1	6.0	14	75	16	8.8
2	3.0	3.8	5.5	3.1	4.9	3.3	3.4	6.6	15	75	15	8.7
3	4.0	3.9	5.6	2.9	5.0	3.2	3.5	6.0	24	80	14	8.7
4	3.8	3.8	5.8	2.7	4.9	3.0	3.6	7.2	35	73	14	8.5
5	3.7	3.9	5.6	2.6	4.8	3.1	3.7	6.3	48	63	15	8.0
6	3.8	3.8	5.2	2.4	4.6	2.9	3.8	5.9	64	60	14	7.8
7	3.7	3.9	4.9	2.3	4.3	3.0	3.9	5.6	75	66	14	7.7
8	3.2	3.7	4.7	2.4	4.0	3.2	3.9	5.6	79	70	12	7.9
9	2.9	3.5	4.3	2.7	3.8	3.3	3.8	5.6	70	65	12	8.3
10	2.8	3.6	4.1	2.9	3.6	3.4	3.6	5.5	54	62	13	8.0
11	2.9	3.7	3.9	3.1	3.2	3.5	3.4	5.4	44	58	12	7.9
12	2.8	3.8	4.0	3.3	3.0	3.4	3.6	5.3	42	59	12	7.6
13	2.8	3.8	4.1	3.5	2.8	3.3	3.9	7.2	55	54	12	7.5
14	2.9	3.9	4.0	3.8	2.6	3.4	4.2	7.7	96	46	11	7.3
15	4.0	4.1	3.8	4.0	2.5	3.5	4.0	6.2	132	39	11	7.2
16	5.0	4.3	3.7	4.2	2.5	3.6	3.8	5.7	160	35	11	7.1
17	4.5	4.5	3.8	4.0	2.7	3.5	4.0	7.4	150	32	11	7.0
18	4.8	4.7	3.9	3.8	3.0	3.4	4.1	8.8	130	30	11	7.3
19	4.0	4.6	4.0	3.7	3.3	3.2	4.2	9.0	109	29	11	7.6
20	3.6	4.5	4.1	3.5	3.5	3.0	4.3	9.7	105	31	11	8.6
21	3.2	4.7	4.0	3.7	3.7	2.9	4.4	10	107	31	11	10
22	3.1	4.8	4.1	3.9	3.9	3.0	4.5	11	109	27	11	9.3
23	3.1	4.9	4.1	4.0	4.0	2.9	4.5	14	100	25	11	8.9
24	3.3	5.2	3.9	4.1	4.0	2.9	4.4	12	88	23	11	8.8
25	3.5	5.6	3.7	4.1	4.1	2.9	4.6	10	82	21	12	8.8
26	3.5	6.0	3.6	4.1	4.1	2.8	4.7	10	83	20	11	8.7
27	3.5	6.4	3.6	4.3	3.9	2.7	4.8	14	89	19	11	8.6
28	3.5	6.3	3.7	4.5	3.7	2.7	5.2	14	99	18	10	8.3
29	3.5	6.0	3.8	4.6	---	2.6	5.8	13	102	18	9.5	8.3
30	3.6	5.8	3.6	4.8	---	2.6	5.6	12	83	16	9.0	9.9
31	3.7	---	3.4	4.9	---	2.8	---	12	---	16	8.9	---
TOTAL	108.7	135.3	132.1	111.1	105.1	96.5	124.3	264.7	2443	1336	367.4	247.1
MEAN	3.51	4.51	4.26	3.58	3.75	3.11	4.14	8.54	81.4	43.1	11.9	8.24
MAX	5.0	6.4	5.8	4.9	5.0	3.6	5.8	14	160	80	16	10
MIN	2.8	3.5	3.4	2.3	2.5	2.6	3.1	5.3	14	16	8.9	7.0
AC-FT	216	268	262	220	208	191	247	525	4850	2650	729	490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995
MEAN	4.25	4.96	4.60	3.76	4.09	6.07
MAX	5.19	7.18	6.04	5.04	5.08	10.5
(WY)	1993	1992	1992	1992	1991	1994
MIN	2.82	3.81	2.53	2.12	2.97	3.11
(WY)	1991	1991	1991	1991	1994	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1990 - 1995
ANNUAL TOTAL	1333.3	5471.3	---
ANNUAL MEAN	3.65	15.0	10.3
HIGHEST ANNUAL MEAN	---	---	16.7
LOWEST ANNUAL MEAN	---	---	3.88
HIGHEST DAILY MEAN	9.5	160	550
LOWEST DAILY MEAN	1.1	2.3	.50
ANNUAL SEVEN-DAY MINIMUM	1.2	2.6	.60
INSTANTANEOUS PEAK FLOW	---	176	624a
INSTANTANEOUS PEAK STAGE	---	5.93	7.02b
ANNUAL RUNOFF (AC-FT)	2640	10850	7450
10 PERCENT EXCEEDS	6.0	50	14
50 PERCENT EXCEEDS	3.6	4.7	4.8
90 PERCENT EXCEEDS	1.6	3.0	2.5

a From rating curve extended above 150 ft³/s on basis of culvert indirect measurement of peak flow.

b At present site and datum; 7.02 ft, from floodmarks, site and datum then in use.

YELLOWSTONE RIVER BASIN

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06229900 TROUT CREEK NEAR FORT WASHAKIE, WY

LOCATION.--Lat 42°57'04", long 108°56'54", in SE¹/₄ NW¹/₄ NW¹/₄ sec.25, T.1 S., R.2 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, 50 ft upstream of Blue Trail Crossing, and 5.0 miles southwest of Fort Washakie.

DRAINAGE AREA.--16.1 mi².

PERIOD OF RECORD.--Annual maximum, water years 1961-68, 1970-84. May 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,935 ft above sea level, from topographic map. Oct. 1, 1961 to Sept. 30, 1968, crest-stage gage at site 100 ft downstream at datum 1.05 ft lower. Oct. 1, 1969 to Sept.30, 1984, crest-stage gage at present site at datum 1.05 ft lower.

REMARKS.--Estimated daily discharges: Dec. 3-16. Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	4.1	3.9	4.2	3.7	4.1	3.9	5.0	33	72	15	10
2	3.9	4.2	3.9	4.4	3.7	4.1	3.7	5.1	39	70	14	10
3	4.2	4.3	4.0	4.2	3.7	4.0	3.7	6.3	48	68	13	9.8
4	4.3	4.1	3.9	4.3	3.7	3.9	3.7	5.4	64	62	13	9.7
5	4.3	4.1	3.9	4.1	3.7	3.9	3.7	5.5	75	58	13	9.6
6	4.5	4.2	3.5	3.8	3.7	3.9	3.9	5.5	87	57	13	9.6
7	4.4	4.3	3.6	3.7	3.7	3.9	3.9	5.4	104	58	12	9.7
8	4.2	4.3	3.3	3.7	3.7	3.9	4.1	5.5	89	56	12	9.7
9	4.1	4.2	3.2	3.7	3.7	3.9	4.0	5.5	81	54	12	9.6
10	4.1	4.3	3.1	3.7	3.7	4.0	3.9	6.2	72	51	12	9.4
11	4.1	4.2	3.3	3.8	3.7	4.2	3.9	6.7	67	48	12	9.4
12	4.1	4.2	3.5	3.9	3.7	4.5	3.9	8.4	80	46	12	9.3
13	4.1	4.1	3.7	3.8	3.8	4.1	3.9	11	108	42	11	9.2
14	4.1	4.1	3.7	3.8	3.8	4.1	4.1	10	152	36	11	9.2
15	4.6	4.1	3.6	3.9	3.8	4.1	4.1	11	213	32	11	9.2
16	5.1	4.1	3.7	3.9	3.7	4.1	4.3	13	213	29	11	9.1
17	5.2	4.1	3.8	3.9	3.7	4.1	4.3	16	184	27	11	9.1
18	4.6	4.1	3.9	3.9	3.7	4.1	4.4	19	151	25	11	9.2
19	4.5	4.1	3.9	3.9	3.7	4.1	4.7	22	159	27	11	9.4
20	4.4	4.1	3.9	3.9	4.8	4.1	4.7	26	151	27	10	9.6
21	4.3	4.1	3.9	3.9	4.4	4.1	4.7	30	129	23	10	9.5
22	4.3	4.0	3.9	3.9	4.0	4.1	4.7	33	114	22	10	9.4
23	4.3	4.0	3.9	3.9	3.9	4.0	4.7	31	106	21	10	9.4
24	4.3	4.1	3.9	3.9	3.9	4.0	4.5	28	102	20	10	9.2
25	4.3	4.1	4.0	3.7	4.0	3.9	4.8	26	99	19	10	9.0
26	4.3	4.1	4.1	3.7	4.1	3.9	4.8	24	95	18	10	9.0
27	4.3	4.1	4.1	3.6	4.1	3.9	4.7	25	93	18	10	8.9
28	4.3	4.0	4.1	3.7	4.1	3.9	5.2	26	90	18	10	8.8
29	4.3	3.9	4.1	3.7	---	3.9	5.0	27	82	17	10	9.0
30	4.3	3.9	4.1	3.6	---	3.9	5.1	28	75	15	10	9.2
31	4.2	---	3.9	3.5	---	3.9	---	29	---	15	10	---
TOTAL	134.0	123.6	117.3	119.6	107.9	124.6	129.0	505.5	3155	1151	350	281.2
MEAN	4.32	4.12	3.78	3.86	3.85	4.02	4.30	16.3	105	37.1	11.3	9.37
MAX	5.2	4.3	4.1	4.4	4.8	4.5	5.2	33	213	72	15	10
MIN	3.9	3.9	3.1	3.5	3.7	3.9	3.7	5.0	33	15	10	8.8
AC-FT	266	245	233	237	214	247	256	1000	6260	2280	694	558

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995
MEAN	5.26	4.86	4.49	4.29	4.22	4.35
MAX	6.66	5.43	5.02	4.70	4.82	4.93
(WY)	1994	1993	1992	1994	1992	1994
MIN	3.77	4.12	3.78	3.71	3.44	3.78
(WY)	1991	1991	1995	1991	1991	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1990 - 1995
ANNUAL TOTAL	2032.4	6298.7	--
ANNUAL MEAN	5.57	17.3	10.8
HIGHEST ANNUAL MEAN	--	--	17.3
LOWEST ANNUAL MEAN	--	--	5.95
HIGHEST DAILY MEAN	19 May 16, 17	213 Jun 15, 16	316 Jun 2 1991
LOWEST DAILY MEAN	3.1 Dec 10	3.1 Dec 10	3.0 Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	3.4 Dec 6	3.4 Dec 6	3.3 Feb 14 1991
INSTANTANEOUS PEAK FLOW	--	245 Jun 15	500a Jun 2 1991#
INSTANTANEOUS PEAK STAGE	--	6.45 Jun 15	7.49 Jun 2 1991
ANNUAL RUNOFF (AC-FT)	4030	12490	7830
10 PERCENT EXCEEDS	10	52	17
50 PERCENT EXCEEDS	4.5	4.3	5.1
90 PERCENT EXCEEDS	3.6	3.7	3.8

For period of record, 1961-68, 1970-84, 1990 to current year.

a From rating curve extended above 160 ft³/s on basis of slope-conveyance computation of peak flow.

06230190 MILL CREEK ABOVE RAY LAKE OUTLET CANAL, NEAR FORT WASHAKIE, WY

LOCATION.--Lat 42°56'50", long 108°48'29", in SW¹/₄ SE¹/₄ NW¹/₄ sec.30, T.1 S., R.1 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on right bank 70 ft upstream from bridge on secondary road south of U.S. Highway 287, 900 ft upstream from Ray Lake Outlet Canal, and 5.4 mi southeast of Fort Washakie.

DRAINAGE AREA.--15.8 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 5,505 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 21-29 and Dec. 6 to Mar. 31. Records good except those for estimated daily discharges, which are poor. Some diversion for irrigation upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.4	1.8	.80	1.0	1.4	1.3	3.4	3.3	21	7.2	12
2	.92	1.3	1.1	.72	1.1	1.5	1.4	4.5	4.3	21	7.0	12
3	1.4	1.5	1.1	.78	1.2	1.7	1.3	15	8.2	21	6.7	13
4	2.2	1.4	.94	.84	1.1	1.5	1.3	3.6	4.7	21	5.2	14
5	2.3	1.8	.89	.90	1.0	1.3	1.3	2.9	19	21	5.1	13
6	3.8	1.9	.86	1.1	1.1	1.2	1.3	2.6	67	23	5.1	13
7	2.2	1.9	.82	.96	1.2	1.3	1.3	2.4	56	22	4.7	13
8	1.5	1.8	.76	.94	1.2	1.3	1.2	2.8	106	31	2.9	14
9	1.3	1.8	.71	.98	1.2	1.4	1.2	3.3	75	32	3.2	9.0
10	1.2	1.7	.68	1.0	1.3	1.6	1.2	3.3	29	38	3.7	6.6
11	1.1	1.6	.73	1.0	1.2	1.7	1.1	3.2	25	37	4.1	6.1
12	1.0	1.6	.70	.98	1.0	1.5	1.1	3.8	25	20	8.4	5.3
13	1.0	1.4	.66	.97	.92	1.4	1.0	12	28	16	15	3.8
14	1.1	1.4	.66	.95	.88	1.3	1.0	4.0	90	17	15	2.7
15	2.1	1.4	.66	1.0	.68	1.4	1.4	3.4	140	16	16	2.1
16	7.9	1.2	.71	1.1	.74	1.6	1.8	3.1	167	15	14	1.8
17	13	1.7	.76	.96	.96	1.5	2.4	3.0	131	13	9.7	1.8
18	4.2	1.2	.82	.80	1.1	1.4	3.3	3.0	101	9.6	6.1	2.0
19	2.7	1.3	.84	.74	1.2	1.5	2.4	3.2	66	8.1	6.6	2.5
20	2.0	1.1	.89	.78	1.2	1.6	1.8	3.1	35	10	6.7	2.5
21	1.9	1.0	.90	.72	1.3	1.5	1.8	3.1	26	18	6.4	2.2
22	1.7	.91	.86	.66	1.4	1.6	1.8	3.4	21	18	5.9	1.8
23	1.6	.84	.86	.58	1.2	1.5	1.7	5.4	15	18	6.7	1.7
24	1.5	.74	.84	.54	1.3	1.4	1.6	4.2	17	16	7.1	1.7
25	1.5	.80	.86	.60	1.4	1.4	1.9	4.3	18	6.8	7.3	1.5
26	1.5	.72	.85	.70	1.5	1.4	4.3	4.1	19	6.2	7.4	1.4
27	1.5	.70	.84	.76	1.4	1.3	2.6	14	24	5.8	6.7	1.3
28	1.3	.68	.84	.82	1.3	1.2	4.6	5.0	28	5.7	6.5	1.2
29	1.3	.64	.86	.72	---	1.3	2.6	4.1	22	7.0	6.5	2.8
30	1.3	1.3	.90	.78	---	1.4	3.3	3.8	21	7.7	7.0	3.3
31	1.3	---	.84	.90	---	1.3	---	3.6	---	8.0	7.8	---
TOTAL	71.22	38.73	26.54	26.08	32.08	44.4	56.3	140.6	1391.5	529.9	227.7	169.1
MEAN	2.30	1.29	.86	.84	1.15	1.43	1.88	4.54	46.4	17.1	7.35	5.64
MAX	13	1.9	1.8	1.1	1.5	1.7	4.6	15	167	38	16	14
MIN	.92	.64	.66	.54	.68	1.2	1.0	2.4	3.3	5.7	2.9	1.2
AC-FT	141	77	53	52	64	88	112	279	2760	1050	452	335

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995
MEAN	1.68	1.26	.88	.84	1.02	2.01
MAX	2.30	1.50	1.07	1.06	1.39	3.72
(WY)	1995	1991	1992	1994	1992	1991
MIN	1.22	.97	.46	.34	.73	1.43
(WY)	1992	1994	1991	1991	1993	1992

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1990 - 1995
ANNUAL TOTAL	1231.03	2754.15	--
ANNUAL MEAN	3.37	7.55	4.99
HIGHEST ANNUAL MEAN	--	--	7.55
LOWEST ANNUAL MEAN	--	--	3.14
HIGHEST DAILY MEAN	18 Jun 9	167 Jun 16	328 Jun 3 1991
LOWEST DAILY MEAN	.64 Nov 29	.54 Jan 24	.21 Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	.69 Dec 9	.65 Jan 21	.24 Dec 18 1990
INSTANTANEOUS PEAK FLOW	--	210 Jun 16	426 Jun 3 1991
INSTANTANEOUS PEAK STAGE	--	3.52 Jun 16	4.20 Jun 3 1991
ANNUAL RUNOFF (AC-FT)	2440	5460	3620
10 PERCENT EXCEEDS	12	18	11
50 PERCENT EXCEEDS	1.3	1.7	1.6
90 PERCENT EXCEEDS	.84	.83	.85

YELLOWSTONE RIVER BASIN

69

06231000 LITTLE WIND RIVER ABOVE ARAPAHOE, WY

LOCATION.--Lat 42°57'35", long 108°29'51", in NW¹/₄ NW¹/₄ SW¹/₄ sec.23, T.1 S., R.3 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank 0.4 mi southwest of Arapahoe School, 1.2 mi upstream from Popo Agie River, and 5.4 mi downstream from Seventeen Mile Bridge.

DRAINAGE AREA.--660 mi².

PERIOD OF RECORD.--May 1906 to December 1909, May 1911 to November 1918, October 1979 to September 1995 (discontinued). Prior to October 1979, intermittent record. Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Elevation of gage is 4,990 ft above sea level, from topographic map. May 1906 to December 1909, nonrecording gage 300 ft upstream at different datum, and May 1911 to November 1918, nonrecording gage 0.3 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 19 to Mar. 8, June 4-7, 18-21, July 18-20, and July 28 to Aug. 2. Records fair except those over 1,000 cfs and those for estimated daily discharges, which are poor. Some regulation by Washakie Reservoir, 34 mi upstream, capacity 7,940 acre-ft, and return flow from irrigation. Diversions for irrigation of about 26,000 acres upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 9	1300	1,840	10.91	July 14	0900	2,560	12.25
June 17	0900	*3,900	*13.39				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	70	84	82	80	70	75	124	393	1780	260	63
2	59	73	85	74	80	60	73	104	404	1850	278	55
3	65	73	83	65	79	70	73	161	628	1860	251	59
4	79	69	80	55	80	72	76	211	830	1900	173	53
5	83	68	74	55	78	75	75	134	1000	1530	127	46
6	102	74	70	60	80	82	77	156	1020	1280	118	35
7	112	83	56	66	85	88	79	168	1190	1350	103	31
8	89	85	58	70	84	95	83	164	1470	1510	88	41
9	77	84	58	78	82	105	86	168	1760	1860	61	55
10	72	80	56	82	82	103	81	160	1400	1960	55	48
11	71	86	60	85	72	103	76	164	1160	2020	62	48
12	68	86	63	82	63	111	66	178	1120	2110	76	41
13	65	85	68	82	58	110	66	284	1310	2360	97	28
14	65	80	72	84	53	93	66	303	1810	2450	109	23
15	66	66	78	85	50	91	75	224	2330	1870	120	24
16	91	68	85	82	55	95	87	227	3070	1330	106	19
17	162	75	80	68	62	94	94	236	3720	1130	86	17
18	181	74	82	54	70	91	98	293	3000	930	83	19
19	129	80	84	54	76	92	101	332	2400	790	65	19
20	105	90	82	52	80	90	101	335	2000	840	61	23
21	95	110	84	49	85	85	95	354	2100	705	55	41
22	89	100	82	44	90	85	93	366	2090	701	57	49
23	83	100	85	39	93	83	96	386	2080	674	50	49
24	80	125	87	35	96	79	95	400	1850	629	58	46
25	78	120	90	41	100	77	97	371	1860	511	75	46
26	77	88	94	49	110	76	113	368	2000	432	77	45
27	75	74	100	61	106	79	121	422	2040	376	78	43
28	74	78	97	80	102	74	110	460	2280	350	76	38
29	71	80	95	76	---	75	130	415	2450	320	83	53
30	68	82	93	75	---	74	120	390	2220	300	83	136
31	67	---	88	77	---	70	---	382	---	275	73	---
TOTAL	2638	2506	2453	2041	2231	2647	2678	8440	52985	37983	3144	1293
MEAN	85.1	83.5	79.1	65.8	79.7	85.4	89.3	272	1766	1225	101	43.1
MAX	181	125	100	85	110	111	130	460	3720	2450	278	136
MIN	40	66	56	35	50	60	66	104	393	275	50	17
AC-FT	5230	4970	4870	4050	4430	5250	5310	16740	105100	75340	6240	2560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1995, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	121	112	82.7	71.1	74.4	92.8	98.9	271	846	373	73.6	56.4				
MAX	264	182	130	101	102	142	159	568	1985	1225	234	125				
(WY)	1983	1985	1983	1983	1984	1987	1984	1987	1991	1995	1982	1982				
MIN	34.9	46.9	49.6	42.9	42.0	56.1	31.7	30.4	64.6	18.4	12.0	9.56				
(WY)	1989	1989	1991	1989	1989	1989	1989	1982	1994	1994	1994	1988				

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1980 - 1995
ANNUAL TOTAL	24608.5	121039	--
ANNUAL MEAN	67.4	332	189
HIGHEST ANNUAL MEAN	--	--	344
LOWEST ANNUAL MEAN	--	--	73.4
HIGHEST DAILY MEAN	464	3720	3930
LOWEST DAILY MEAN	8.9	17	6.7
ANNUAL SEVEN-DAY MINIMUM	9.0	21	7.2
INSTANTANEOUS PEAK FLOW	--	3900	4190
INSTANTANEOUS PEAK STAGE	--	13.39	13.39
ANNUAL RUNOFF (AC-FT)	48810	240100	137100
10 PERCENT EXCEEDS	127	1290	372
50 PERCENT EXCEEDS	58	84	86
90 PERCENT EXCEEDS	12	54	34

YELLOWSTONE RIVER BASIN

06231930 BALDWIN CREEK BELOW DICKINSON CREEK, AT LANDER, WY

LOCATION.--Lat 42°51'00", long 108°43'25", in NW¹/4 SW¹/4 NW¹/4 sec.8, T.33 N., R.99 W., Fremont County, Hydrologic Unit 10080003, 100 ft downstream from mouth of Dickinson Creek and 0.5 mi north of Lander.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
NOV 07...	1300	18	1080	8.4	6.0	9.0	620	10.4	103	138	6.7
APR 26...	1045	14	1140	8.4	5.0	4.0	631	11.0	105	127	4.8
MAY 15...	1200	40	814	8.3	10.0	19.5	625	9.9	107	220	24
JUN 13...	1400	240	442	8.2	11.0	26.0	630	8.6	95	611	396

06232600 POPO AGIE RIVER AT HUDSON SIDING, NEAR LANDER, WY

LOCATION.--Lat 42°51'59", long 108°41'04", in NW¹/4 NE¹/4 sec.30, T.2 S., R.2 E., Fremont County, Hydrologic Unit 10080003, Wind River Indian Reservation, on left bank at bridge on private road, 1.2 mi downstream from North Popo Agie River, and 3.2 mi northeast of Lander.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)
NOV 09...	0920	108	625	8.5	2.0	0.0	630
MAR 10...	1105	68	633	8.6	6.0	15.0	628
JUN 14...	1110	3100	103	8.1	7.0	25.0	631
SEP 26...	1420	170	727	8.7	12.0	24.5	630

DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) AS P) (00671)
NOV 09...	12.9	113	K10	0.01	0.16	0.10	0.04
MAR 10...	13.0	127	<1	<0.01	0.11	0.14	0.03
JUN 14...	9.8	98	400	<0.01	0.07	0.03	0.02
SEP 26...	14.2	160	32	0.01	<0.05	0.04	0.04

K-Results based on colony count outside the acceptable range (non-ideal colony count).

YELLOWSTONE RIVER BASIN

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06233000 LITTLE POPO AGIE RIVER NEAR LANDER, WY

LOCATION.--Lat 42°43'00", long 108°38'34", in NE¹/₄ SE¹/₄ sec.27, T.32 N., R.99 W., Fremont County, Hydrologic Unit 10080003, on left bank 700 ft downstream from bridge on State Highway 28, 2.5 mi downstream from Red Canyon Creek, and 9.5 mi southeast of post office in Lander.

DRAINAGE AREA.--125 mi².

PERIOD OF RECORD.--March 1946 to current year (no winter records since 1971).

REVISED RECORDS.--WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,436.49 ft above sea level.

REMARKS.--Estimated daily discharges: May 30 to June 1 and June 22 to July 3. Records good except those for estimated daily discharges, which are fair. Diversions for irrigation of about 540 acres upstream from station. Slight regulation by Christina Lake, capacity, about 3,860 acre-ft.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 6	2230	637	4.41	June 29	unknown	796	4.79
June 16	0400	*1,200	*5.59				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	28	45	360	566	154	46
2	---	---	---	---	---	---	29	46	404	584	139	44
3	---	---	---	---	---	---	28	68	482	633	131	44
4	---	---	---	---	---	---	29	61	513	548	126	44
5	---	---	---	---	---	---	30	68	544	489	123	46
6	---	---	---	---	---	---	32	68	625	506	118	46
7	---	---	---	---	---	---	35	66	584	544	115	45
8	---	---	---	---	---	---	36	76	541	588	115	48
9	---	---	---	---	---	---	31	76	475	573	113	48
10	---	---	---	---	---	---	31	94	431	573	103	45
11	---	---	---	---	---	---	29	103	400	588	103	48
12	---	---	---	---	---	---	33	113	465	573	105	44
13	---	---	---	---	---	---	36	145	648	591	103	43
14	---	---	---	---	---	---	43	113	855	499	94	43
15	---	---	---	---	---	---	39	120	1010	421	84	41
16	---	---	---	---	---	---	37	157	1080	377	76	40
17	---	---	---	---	---	---	38	170	912	350	74	39
18	---	---	---	---	---	---	36	189	739	349	72	40
19	---	---	---	---	---	---	36	213	677	343	70	55
20	---	---	---	---	---	---	34	240	693	343	65	51
21	---	---	---	---	---	---	36	261	697	309	61	51
22	---	---	---	---	---	---	35	285	618	288	60	49
23	---	---	---	---	---	---	37	271	588	268	63	49
24	---	---	---	---	---	---	36	237	566	247	66	49
25	---	---	---	---	---	---	40	234	541	234	66	48
26	---	---	---	---	---	---	39	227	599	213	63	46
27	---	---	---	---	---	---	38	302	618	210	60	44
28	---	---	---	---	---	---	46	274	726	193	55	43
29	---	---	---	---	---	---	46	288	791	176	53	45
30	---	---	---	---	---	---	45	302	673	180	52	52
31	---	---	---	---	---	---	---	322	---	170	49	---
TOTAL	---	---	---	---	---	---	1068	5234	18855	12526	2731	1376
MEAN	---	---	---	---	---	---	35.6	169	628	404	88.1	45.9
MAX	---	---	---	---	---	---	46	322	1080	633	154	55
MIN	---	---	---	---	---	---	28	45	360	170	49	39
AC-FT	---	---	---	---	---	---	2120	10380	37400	24850	5420	2730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1971, BY WATER YEAR (WY)

	35.0	29.7	25.6	23.4	23.7	24.6	43.9	188	335	132	51.5	41.0
MEAN	35.0	29.7	25.6	23.4	23.7	24.6	43.9	188	335	132	51.5	41.0
MAX	49.0	41.8	35.8	32.9	42.5	33.9	76.6	334	720	332	98.6	62.6
(WY)	1948	1951	1951	1948	1962	1948	1952	1952	1965	1965	1950	1950
MIN	22.5	21.4	17.5	13.9	17.4	18.8	27.4	85.1	92.9	34.5	21.9	23.0
(WY)	1961	1963	1960	1963	1960	1957	1957	1959	1960	1961	1960	1958

SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1946 - 1971
ANNUAL MEAN	---	80.4
HIGHEST ANNUAL MEAN	---	131
LOWEST ANNUAL MEAN	---	37.0
HIGHEST DAILY MEAN	1080 Jun 16	1590 Jun 16 1963
LOWEST DAILY MEAN	28 Apr 1, 3	12 Jan 20, 21, Feb 26 to Mar 2 1960,
		Jan 10, 11, 18, 19 1963#
ANNUAL SEVEN-DAY MINIMUM	---	12 Feb 25 1960
INSTANTANEOUS PEAK FLOW	1200 Jun 16	2010 Jun 16 1963#
INSTANTANEOUS PEAK STAGE	5.59 Jun 16	6.64 Jun 16 1963#
ANNUAL RUNOFF (AC-FT)	---	58230
10 PERCENT EXCEEDS	---	213
50 PERCENT EXCEEDS	---	34
90 PERCENT EXCEEDS	---	21

* During period of operation.

For period of record through 1995.

YELLOWSTONE RIVER BASIN

06233900 POPO AGIE RIVER NEAR ARAPAHOE, WY

LOCATION.--Lat 42°56'47", long 108°30'34", in NE¹/₄ NE¹/₄ SW¹/₄ sec.27, T.1 S., R.3 E., Fremont County, Hydrologic Unit 10080003, Wind River Indian Reservation, on left bank 1.4 mi southwest of Arapahoe School and 3.0 mi upstream from Little Wind River.

DRAINAGE AREA.--796 mi².

PERIOD OF RECORD.--October 1979 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 4,995.72 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 19, 24-26, Nov. 30 to Dec. 3, and Dec. 9 to Mar. 9. Records fair except those for estimated daily discharges, which are poor. Diversions for irrigation of about 36,900 acres upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 9	0800	2,630	8.17	July 13	1700	3,430	8.97
June 17	1300	*4,760	*10.22				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	156	114	96	87	113	106	200	1060	2390	470	163
2	96	166	116	88	90	110	107	188	1250	2320	399	167
3	105	164	110	87	88	120	109	393	1650	2520	343	159
4	145	150	106	84	88	130	107	403	1830	2530	317	158
5	178	158	99	85	88	140	111	287	1880	2050	327	159
6	232	173	71	93	91	150	111	282	2340	2050	304	159
7	252	177	83	96	95	145	119	258	2510	2400	293	161
8	188	179	83	100	94	140	130	253	2320	2830	282	178
9	170	176	83	105	92	160	131	282	2500	2770	280	186
10	159	177	82	110	92	188	119	277	1840	2760	273	177
11	156	176	86	113	90	208	119	301	1550	2880	264	169
12	141	171	90	110	86	280	117	323	1670	2890	315	172
13	138	165	94	110	84	265	120	596	2420	3060	294	165
14	140	155	96	110	80	194	130	522	3350	2580	268	158
15	144	128	96	112	76	172	150	408	4110	1880	252	162
16	241	155	100	115	78	176	156	475	4480	1530	221	158
17	471	159	105	100	80	180	163	512	4630	1350	214	159
18	469	156	110	90	82	159	179	546	3990	1280	219	175
19	339	145	108	90	86	148	156	611	3180	1260	225	193
20	283	139	108	90	94	140	154	696	3070	1410	208	207
21	249	148	110	81	98	128	142	776	3150	1240	199	255
22	233	113	108	75	104	125	143	831	3160	1120	212	248
23	208	114	108	68	110	124	144	848	2750	1010	211	235
24	197	117	107	64	115	118	153	817	2570	912	242	232
25	184	120	107	68	120	117	143	730	2660	795	251	227
26	184	103	108	76	130	111	181	765	2620	709	249	222
27	187	93	109	82	125	114	202	1310	2890	648	240	211
28	183	107	110	87	120	112	197	1160	3390	608	208	204
29	176	110	110	86	---	111	213	973	3530	585	190	206
30	153	112	110	84	---	109	191	905	2660	544	174	248
31	146	---	100	84	---	109	---	951	---	522	168	---
TOTAL	6226	4362	3127	2839	2663	4596	4303	17879	81010	53433	8112	5673
MEAN	201	145	101	91.6	95.1	148	143	577	2700	1724	262	189
MAX	471	179	116	115	130	280	213	1310	4630	3060	470	255
MIN	79	93	71	64	76	109	106	188	1060	522	168	158
AC-FT	12350	8650	6200	5630	5280	9120	8530	35460	160700	106000	16090	11250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1995, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	181	150	120	107	109	148	224	686	1333	591	175	171				
MAX	383	197	165	155	152	209	470	1292	2920	1724	298	331				
(WY)	1983	1984	1984	1984	1992	1987	1987	1980	1986	1995	1983	1982				
MIN	80.0	116	96.6	88.0	76.3	96.9	101	227	347	73.5	40.3	46.7				
(WY)	1989	1993	1991	1981	1994	1982	1989	1990	1994	1994	1988	1994				

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1980 - 1995
ANNUAL TOTAL	66423	194223	--
ANNUAL MEAN	182	532	333
HIGHEST ANNUAL MEAN	--	--	566
LOWEST ANNUAL MEAN	--	--	179
HIGHEST DAILY MEAN	1130	May 14	4630
LOWEST DAILY MEAN	29	Sep 10	64
ANNUAL SEVEN-DAY MINIMUM	34	Sep 8	73
INSTANTANEOUS PEAK FLOW	--	--	4760
INSTANTANEOUS PEAK STAGE	--	--	10.22
ANNUAL RUNOFF (AC-FT)	131700	385200	241400
10 PERCENT EXCEEDS	422	1950	766
50 PERCENT EXCEEDS	125	166	154
90 PERCENT EXCEEDS	48	90	90

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LOCATION.--Lat 42°59'51", long 108°22'29", in NE1/4 NW1/4 sec.11, T.1 S., R.4 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on right bank 1.8 mi upstream from mouth and 1.9 mi southeast of Riverton.

DRAINAGE AREA.--1,904 mi².

PERIOD OF RECORD.--May 1941 to current year. Prior to October 1958, published as Popo Agie River near Riverton.
REVISED RECORDS.--WSP 1729: Drainage area.

REMARKS.--Estimated daily discharges: Nov. 18-20, 22-24, and Nov. 29 to Mar. 11. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 62,900 acres upstream from station. U.S. Bureau of Reclamation satellite telemeter at station.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 9	0945	5,460	7.65	June 29	0600	6,480	8.18
June 17	1345	*8,770	*9.29	July 13	2115	6,080	7.93

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	261	220	210	200	220	227	341	1730	4630	979	240
2	175	275	220	200	210	210	223	336	1910	4510	886	239
3	194	276	180	200	200	220	219	475	2420	4600	767	232
4	231	262	170	190	200	250	217	853	2760	4810	648	228
5	257	268	170	190	200	260	217	544	2920	4120	557	225
6	310	287	160	200	210	270	218	524	3420	3780	517	216
7	382	297	170	200	220	268	226	507	4030	4010	476	208
8	298	301	170	210	220	260	238	506	4530	4510	434	231
9	263	298	170	220	220	300	249	569	5230	4840	394	273
10	250	291	160	220	210	350	237	537	4150	4960	385	273
11	247	293	160	230	200	360	231	546	3310	5210	361	266
12	239	291	170	220	190	364	215	599	3130	5310	427	268
13	235	282	180	220	180	414	208	1080	3740	5690	444	249
14	235	271	180	220	170	344	207	1220	5240	5680	426	229
15	237	240	200	230	160	303	231	849	6690	4490	421	222
16	308	241	210	220	170	314	250	828	7700	3450	383	214
17	631	268	210	195	180	337	272	916	8630	3020	340	205
18	827	253	220	190	190	328	283	1000	7740	2760	345	221
19	570	239	210	180	210	317	275	1140	6070	2530	335	243
20	478	260	220	180	220	308	266	1240	5310	2610	317	269
21	409	280	210	170	240	296	252	1350	5260	2430	297	334
22	385	268	210	160	250	291	252	1440	5420	2310	300	359
23	333	231	210	150	260	280	248	1550	5190	2190	292	340
24	314	263	220	140	270	265	262	1550	4740	2040	315	330
25	298	275	230	150	280	257	259	1420	4760	1810	347	328
26	291	276	240	160	290	241	295	1450	4930	1580	353	319
27	290	238	250	170	300	240	335	1960	5100	1390	340	304
28	286	236	240	190	270	239	324	2280	5810	1260	308	283
29	275	230	240	210	---	238	365	1880	6400	1140	284	286
30	264	230	230	200	---	233	340	1670	5550	1030	268	395
31	256	---	220	200	---	223	---	1650	---	1000	249	---
TOTAL	9904	7981	6250	6025	6120	8800	7641	32810	143820	103700	13195	8029
MEAN	319	266	202	194	219	284	255	1058	4794	3345	426	268
MAX	827	301	250	230	300	414	365	2280	8630	5690	979	395
MIN	136	230	160	140	160	210	207	336	1730	1000	249	205
AC-FT	19640	15830	12400	11950	12140	17450	15160	65080	285300	205700	26170	15930

	MEAN	321	279	211	185	209	265	366	1109	2403	1007	265	261
	MAX	728	501	351	302	728	427	1044	2351	5109	3345	699	1323
(WY)	1983	1974	1974	1974	1962	1974	1974	1973	1958	1983	1995	1965	1973
MIN	115	174	129	95.0	123	181	148	242	288	111	58.4	82.5	
(WY)	1989	1989	1959	1961	1959	1989	1989	1960	1977	1994	1960	1994	
MEAN	321	279	211	185	209	265	366	1109	2403	1007	265	261	
MAX	728	501	351	302	728	427	1044	2351	5109	3345	699	1323	
(WY)	1983	1974	1974	1974	1962	1974	1973	1958	1983	1995	1965	1973	
MIN	115	174	129	95.0	123	181	148	242	288	111	58.4	82.5	
(WY)	1989	1989	1959	1961	1959	1989	1989	1960	1977	1994	1960	1994	

WATER YEARS 1941 - 1995

ANNUAL TOTAL	110377		354275		--	
ANNUAL MEAN	302		971		574	
HIGHEST ANNUAL MEAN	--		--		1021	1983
LOWEST ANNUAL MEAN	--		--		236	1960
HIGHEST DAILY MEAN	1980	May 14	8630	Jun 17	12800	Jun 17 1963
LOWEST DAILY MEAN	55	Sep 11	136	Oct 1	41	Aug 7 1960
ANNUAL SEVEN-DAY MINIMUM	60	Sep 6	157	Jan 21	46	Aug 5 1960
INSTANTANEOUS PEAK FLOW	--		8770	Jun 17	14700	Jun 17 1963
INSTANTANEOUS PEAK STAGE	--		9.29	Jun 17	10.85	Jun 17 1963
ANNUAL RUNOFF (AC-FT)	218900		702700		416200	
10 PERCENT EXCEEDS	638		3760		1440	
50 PERCENT EXCEEDS	234		275		261	
90 PERCENT EXCEEDS	81		198		145	

YELLOWSTONE RIVER BASIN

06235500 LITTLE WIND RIVER NEAR RIVERTON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-58, 1960-64, 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
NOV 09...	1545	300	978	8.8	4.0	1.5	636	12.0	110	34
MAR 09...	1400	250	936	8.4	0.5	10.0	633	11.4	96	K2
JUN 15...	1330	6600	245	8.1	14.0	27.0	632	8.3	97	1200
SEP 26...	1530	303	940	8.5	14.0	25.0	635	10.6	124	30

K-Results based on colony count outside the acceptable range (non-ideal colony count).

YELLOWSTONE RIVER BASIN

75

06236100 WIND RIVER ABOVE BOYSEN RESERVOIR, NEAR SHOSHONI, WY

LOCATION.--Lat 43°07'45", long 108°13'24", in SE¹/₄ SE¹/₄ SE¹/₄ sec.24, T.2 N., R.5 E., Fremont County, Hydrologic Unit 10080001, on left bank 5.3 mi upstream from Boysen Reservoir and 9.4 mi southwest of Shoshoni.

DRAINAGE AREA.--4,390 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 4,775 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 24 to Mar. 10 and May 2. Records good except those for estimated daily discharges, which are poor. Natural flow affected by Bull Lake, Pilot Butte Reservoir, and several small reservoirs, combined capacity, 190,000 acre-ft, and diversions for irrigation of about 191,000 acres upstream from station. Satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	446	699	490	600	540	460	518	535	2790	8940	1680	470
2	571	745	500	580	550	460	521	530	3350	8790	1420	472
3	656	801	450	580	530	490	518	661	4210	8780	1170	478
4	638	752	440	570	530	540	529	1230	6370	9350	1010	480
5	591	702	440	560	530	580	540	938	6790	8140	774	491
6	642	746	420	580	540	573	571	805	7410	7320	749	531
7	673	819	440	590	550	560	559	774	9900	7630	699	492
8	549	856	440	610	550	560	593	767	9400	8770	785	506
9	488	851	440	630	550	630	636	808	9290	9530	706	512
10	455	807	420	650	530	780	597	781	6920	9590	690	557
11	451	829	440	650	510	819	563	775	5180	9940	674	555
12	436	835	450	640	490	891	460	863	5000	10400	720	544
13	406	814	470	620	460	1020	410	1410	6950	11700	766	533
14	406	787	490	620	430	814	412	1610	10600	13300	716	519
15	420	689	520	630	410	709	409	1080	13400	11700	712	525
16	533	714	540	580	430	699	444	1010	15500	8250	656	526
17	960	752	560	510	440	755	479	1220	16500	6340	601	549
18	1110	679	580	478	470	750	481	1350	15300	5220	578	592
19	800	646	560	460	500	703	480	1570	12100	4500	573	635
20	688	612	580	460	520	673	504	1730	10000	4330	571	775
21	598	701	560	440	540	662	506	1870	9540	4330	540	804
22	570	696	560	420	560	621	484	2190	9640	4150	552	885
23	522	478	560	400	580	629	499	2590	9470	4240	573	824
24	494	520	590	390	600	615	513	2310	8210	3890	577	831
25	487	560	620	400	610	585	499	1960	8200	3450	598	826
26	688	580	650	420	630	557	510	1830	8870	3060	642	757
27	792	520	680	470	550	551	571	2290	9550	2620	630	687
28	787	510	660	530	480	550	543	2900	10900	2230	594	647
29	781	500	660	580	---	533	571	2270	12000	2030	552	624
30	776	500	640	540	---	524	535	2010	10800	1820	500	726
31	710	---	620	530	---	521	---	2070	---	1810	478	---
TOTAL	19124	20700	16470	16718	14610	19814	15455	44737	274140	206150	22486	18353
MEAN	617	690	531	539	522	639	515	1443	9138	6650	725	612
MAX	1110	856	680	650	630	1020	636	2900	16500	13300	1680	885
MIN	406	478	420	390	410	460	409	530	2790	1810	478	470
AC-FT	37930	41060	32670	33160	28980	39300	30650	88740	543800	408900	44600	36400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995
MEAN	589	697	489	504	508	654
MAX	783	840	562	565	699	806
(WY)	1991	1991	1992	1991	1992	1994
MIN	393	631	442	356	361	557
(WY)	1993	1993	1994	1993	1994	1991

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1990 - 1995
ANNUAL TOTAL	205843	688757	--
ANNUAL MEAN	564	1887	1167
HIGHEST ANNUAL MEAN	--	--	1887
LOWEST ANNUAL MEAN	--	--	551
HIGHEST DAILY MEAN	3500	May 14	16500 Jun 17
LOWEST DAILY MEAN	152	Jul 21	390 Jan 24
ANNUAL SEVEN-DAY MINIMUM	156	Jul 20	419 Jan 20
INSTANTANEOUS PEAK FLOW	--	--	17200 Jun 17
INSTANTANEOUS PEAK STAGE	--	--	8.99 Jun 17
ANNUAL RUNOFF (AC-FT)	408300	1366000	845500
10 PERCENT EXCEEDS	966	7360	2010
50 PERCENT EXCEEDS	490	620	590
90 PERCENT EXCEEDS	218	460	350

06236100 WIND RIVER ABOVE BOYSEN RESERVOIR, NEAR SHOSHONI, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: April to July 1991, April to July 1993, May to July 1994, April to August 1995..

INSTRUMENTATION: Sediment pumping sampler set for once or twice daily interval.

EXTREMES FOR PERIOD OF RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean during period of operation, 5,630 mg/L, June 13, 1991; minimum daily mean during period of operation, 20 mg/L, July 20, 1994.

SEDIMENT LOADS: Maximum daily during period of operation, 242,000 tons, June 13, 1991; minimum daily during period of operation, 8.3 tons, July 20, 1994.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean during period of operation, 2,810 mg/L, June 9; minimum daily mean during period of operation, 44 mg/L, Aug. 9.

SEDIMENT LOADS: Maximum daily during period of operation, 70,600 tons, June 19; minimum daily during period of operation, 84 tons, Aug. 9.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

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	---	---	780	1130	1460	11000	996	24000	309	1400	---	---
2	---	---	735	1050	1480	13400	746	17700	312	1200	---	---
3	---	---	930	1660	1490	16900	720	17100	264	834	---	---
4	---	---	1380	4580	1700	29200	758	19100	242	660	---	---
5	---	---	1290	3270	1820	33400	418	9190	141	295	---	---
6	---	---	1150	2500	1660	33200	626	12400	105	212	---	---
7	---	---	1010	2110	2150	57500	485	9990	65	123	---	---
8	---	---	982	2030	2570	65200	423	10000	57	121	---	---
9	---	---	1060	2310	2810	70500	241	6200	44	84	---	---
10	---	---	1020	2150	2490	46500	210	5440	---	---	---	---
11	---	---	1000	2090	1920	26900	248	6660	---	---	---	---
12	---	---	1080	2520	1450	19600	184	5170	---	---	---	---
13	---	---	1530	5820	1320	24800	151	4770	---	---	---	---
14	---	---	1600	6960	1640	46900	236	8470	---	---	---	---
15	---	---	1150	3350	1720	62200	228	7200	---	---	---	---
16	---	---	952	2600	1590	66500	147	3270	---	---	---	---
17	---	---	949	3130	1420	63300	384	6570	---	---	---	---
18	---	---	1020	3720	1580	65300	597	8410	---	---	---	---
19	---	---	1400	5930	2160	70600	508	6170	---	---	---	---
20	---	---	1510	7050	2100	56700	598	6990	---	---	---	---
21	---	---	1560	7880	1530	39400	478	5590	---	---	---	---
22	---	---	1740	10300	1630	42400	359	4020	---	---	---	---
23	---	---	1840	12900	1570	40100	356	4080	---	---	---	---
24	---	---	1570	9790	1720	38100	328	3440	---	---	---	---
25	---	---	1410	7460	1340	29700	267	2490	---	---	---	---
26	145	200	1300	6420	1020	24400	215	1780	---	---	---	---
27	519	800	1550	9580	956	24700	182	1290	---	---	---	---
28	900	1320	1810	14200	1170	34400	156	939	---	---	---	---
29	1290	1990	1290	7910	1170	37900	172	943	---	---	---	---
30	1150	1660	1050	5700	1130	33000	278	1370	---	---	---	---
31	---	---	1010	5640	---	---	299	1460	---	---	---	---
TOTAL	---	---	---	163740	---	1223700	---	222202	---	---	---	---

LOCATION.--Lat 43°18'05", long 108°42'08", in SE¹/₄ SW¹/₄ SE¹/₄ sec.24, T.4 N., R.1 E., Fremont County, Hydrologic Unit 10080005, on left bank 1,700 ft upstream from Wyoming Canal siphon and 4.0 mi north of Pavillion.

DRAINAGE AREA.--118 mi².

PERIOD OF RECORD.--October 1949 to September 1975, October 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,500 ft above sea level, from topographic map. Aug. 27, 1948, to Mar. 28, 1950, at site 0.2 mi downstream at different datum. Mar. 29, 1950, to Apr. 23, 1974, at site 325 ft downstream at present datum. Apr. 24, 1974, to September 30, 1975, at site 25 ft downstream at present datum.

REMARKS.--Estimated daily discharges: Oct. 1-11, Nov. 4, 5, and Nov. 10 to Mar. 8. Records good except those for estimated daily discharges, which are poor. Flow regulated by reservoir system approximately 10.5 mi upstream. Diversions for irrigation of about 320 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1948 reached a stage of about 6.1 ft, discharge, 2,600 ft³/s, on basis of slope-area measurement of peak flow.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	6.6	5.6	5.4	8.4	11	7.4	9.7	7.4	4.8	.74	.06
2	.40	7.1	5.6	4.0	10	12	7.1	9.5	6.7	5.7	.75	.17
3	5.0	7.2	5.6	4.2	9.8	13	6.8	14	10	4.7	.64	.46
4	4.0	6.6	5.6	4.1	9.6	13	6.7	15	10	4.9	.55	.60
5	6.0	6.6	5.4	4.1	9.2	12	6.6	14	8.5	5.0	.56	.71
6	5.8	7.2	5.2	4.4	9.2	11	6.4	15	7.9	3.9	.56	.75
7	5.8	7.8	5.2	5.0	10	12	6.1	13	7.8	3.0	.51	.85
8	5.8	8.5	5.0	5.6	10	12	5.9	14	15	2.3	.29	1.1
9	6.0	8.3	4.8	6.2	10	14	5.7	14	16	1.8	.19	1.8
10	6.2	7.0	4.8	6.6	9.6	11	5.7	13	13	1.8	.14	2.8
11	6.4	6.6	4.9	7.2	8.4	12	5.7	13	12	1.8	.19	2.3
12	6.9	6.4	5.0	7.6	7.6	13	5.7	13	11	2.0	.21	1.8
13	6.9	6.2	5.2	7.8	7.0	12	5.7	14	11	2.3	.11	1.2
14	7.0	5.8	5.4	7.8	6.4	11	6.6	12	10	2.0	.07	1.5
15	7.7	5.2	5.4	7.8	6.0	11	7.0	11	8.7	5.1	.05	1.5
16	9.4	5.6	5.6	7.6	6.4	10	7.3	11	6.4	3.7	.04	1.4
17	9.3	6.0	5.6	7.2	6.8	10	8.5	10	5.4	2.8	.04	1.5
18	9.0	5.4	5.8	6.0	7.4	9.9	7.9	12	5.2	2.4	.01	2.8
19	9.2	5.0	5.8	6.4	7.8	9.5	7.2	9.6	5.0	2.1	.01	6.1
20	8.5	5.2	6.0	5.6	8.4	9.2	6.9	7.8	4.5	4.1	.01	19
21	7.4	5.2	5.8	4.8	8.8	9.2	6.5	7.2	4.1	7.7	.01	18
22	7.1	5.0	5.8	4.4	9.4	9.0	6.5	7.8	3.6	16	.01	13
23	6.9	4.8	5.8	4.1	10	8.4	7.1	11	3.2	14	.01	9.6
24	6.9	4.8	6.0	4.4	11	8.9	7.4	10	3.1	5.2	.13	8.5
25	7.0	4.9	6.0	4.7	12	7.2	7.5	10	3.3	3.4	.67	7.7
26	6.9	5.0	6.0	5.4	12	8.1	7.7	11	3.7	2.2	.77	7.2
27	6.8	5.2	6.2	6.2	12	8.0	7.4	11	3.6	1.3	.69	6.8
28	6.7	5.2	6.2	7.4	11	7.6	8.7	10	4.0	.97	.55	6.3
29	6.5	5.0	6.0	8.8	---	8.2	10	9.7	5.0	.81	.39	7.2
30	6.5	5.2	5.8	7.8	---	8.3	11	9.1	4.5	.70	.21	8.8
31	6.6	---	5.6	7.0	---	7.6	---	8.4	---	.70	.18	---
TOTAL	201.00	180.6	172.7	185.6	254.2	319.1	212.7	349.8	219.6	119.18	9.29	141.50
MEAN	6.48	6.02	5.57	5.99	9.08	10.3	7.09	11.3	7.32	3.84	.30	4.72
MAX	9.4	8.5	6.2	8.8	12	14	11	15	16	16	.77	19
MIN	.40	4.8	4.8	4.0	6.0	7.2	5.7	7.2	3.1	.70	.01	.06
AC-FT	399	358	343	368	504	633	422	694	436	236	18	288

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

MEAN	2.59	2.94	1.88	1.90	3.45	5.36	4.41	5.33	5.96	1.81	.93	2.65
MAX	6.98	10.2	6.69	7.72	10.6	13.3	8.95	53.4	48.8	11.5	5.95	14.5
(WY)	1994	1992	1993	1994	1991	1993	1994	1991	1991	1973	1992	1973
MIN	.000	.000	.000	.000	.000	.27	.097	.38	.043	.000	.000	.000
(WY)	1955	1955	1953	1951	1956	1954	1954	1955	1952	1956	1954	1952

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1950 - 1995
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	1984	1985	1986	1987	1988	1989	1990	1991
ANNUAL TOTAL	1984.50				2365.27	--		
ANNUAL MEAN	5.44				6.48	3.26		
HIGHEST ANNUAL MEAN	--				--	12.4		1991
LOWEST ANNUAL MEAN	--				--	.25		1955
HIGHEST DAILY MEAN	18	Mar 5			19	Sep 20	273	Sep 20 1950
LOWEST DAILY MEAN	.11	Jul 2			.01	Aug 18-23	.00	Several days, most years
ANNUAL SEVEN-DAY MINIMUM	.13	Jun 30			.01	Aug 17	.00	Several days, most years
INSTANTANEOUS PEAK FLOW	--				27a	Jul 23, Sep 20	1750b	Sep 6 1951
INSTANTANEOUS PEAK STAGE	--				2.59c	Mar 3	5.60d	Sep 6 1951
ANNUAL RUNOFF (AC-FT)	3940				4690		2360	
10 PERCENT EXCEEDS	9.6				11		7.2	
50 PERCENT EXCEEDS	5.6				6.4		1.7	
90 PERCENT EXCEEDS	.60				.71		.00	

a Gage height July 23, 2.21 ft, gage height Sept. 20, 2.20 ft.

b From rating curve extended above 350 ft³/s.

c Backwater from ice.

d From floodmarks.

06253000 FIVEMILE CREEK NEAR SHOSHONI. WY

LOCATION.--Lat 43°13'20", long 108°13'06", in NW¼ SW¼ sec.19, T.3 N., R.6 E., Fremont County, Hydrologic Unit 10080005, on right bank 1.2 mi upstream from normal high-water line of Boysen Reservoir at elevation 4,725 ft and 5.0 mi west of Shoshoni.

DRAINAGE AREA.--418 mi², of which 133 mi² is probably noncontributing.

PERIOD OF RECORD.--May 1941 to September 1942, August 1948 to September 1983, October 1988 to current year.

REVISED RECORDS.--WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,750 ft above sea level, from topographic map. May 10, 1941 to Sept. 30, 1942, nonrecording gage at site 1.0 mi downstream at different datum. Aug. 28, 1948 to Sept. 30, 1983, at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 5-7, Nov. 4, 16, 18-25, Nov. 27 to Dec. 3, and Dec. 6 to Feb. 26.

Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by regulation from reservoir system in the headwaters, diversions for irrigation, and return flow from irrigated areas.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 24, 1923, discharge, 3,500 ft³/s, from estimate provided by Bureau of Reclamation, gage height not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	76	56	46	54	50	52	114	180	345	328	326
2	82	74	60	45	58	51	53	157	194	339	318	325
3	85	75	66	45	56	54	53	177	206	364	313	336
4	91	72	49	45	56	56	53	161	201	340	325	346
5	87	74	50	47	56	55	53	156	198	321	373	349
6	84	74	50	48	56	54	54	169	213	303	374	353
7	82	76	49	49	58	52	52	159	208	301	359	362
8	79	75	48	50	61	52	52	158	328	290	368	352
9	77	75	47	51	57	55	50	149	425	270	380	339
10	76	75	46	52	56	56	48	144	349	268	394	347
11	76	74	47	52	54	58	48	168	311	276	396	344
12	75	74	48	51	52	65	48	176	305	286	376	336
13	72	74	49	51	52	63	47	173	313	299	373	325
14	73	71	50	52	48	58	47	173	320	315	368	321
15	78	69	49	52	43	57	48	166	299	325	351	329
16	89	66	51	52	46	57	49	158	285	317	359	329
17	106	68	52	50	48	56	54	157	276	324	361	338
18	102	66	52	49	50	56	53	148	288	341	348	357
19	89	64	49	48	52	57	51	153	279	330	326	378
20	89	66	50	49	52	55	50	154	252	337	335	387
21	84	66	50	48	52	57	48	174	251	354	342	395
22	82	66	49	46	54	56	47	171	267	389	349	379
23	81	66	49	45	54	53	53	175	275	397	346	369
24	79	64	49	43	54	55	53	191	280	389	361	368
25	80	62	50	45	56	54	60	194	283	381	346	355
26	79	62	51	48	56	50	81	189	281	359	360	344
27	79	60	52	50	59	50	104	190	284	331	375	326
28	82	58	51	52	52	50	106	198	299	312	383	313
29	83	58	49	54	---	48	107	203	319	317	354	322
30	82	59	46	52	---	51	107	205	335	313	331	333
31	81	---	46	52	---	52	---	197	---	331	334	---
TOTAL	2571	2059	1560	1519	1502	1693	1781	5257	8304	10164	11006	10383
MEAN	82.9	68.6	50.3	49.0	53.6	54.6	59.4	170	277	328	355	346
MAX	106	76	66	54	61	65	107	205	425	397	396	395
MIN	72	58	46	43	43	48	47	114	180	268	313	313
AC-FT	5100	4080	3090	3010	2980	3360	3530	10430	16470	20160	21830	20590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

MEAN	136	75.6	56.0	47.6	46.9	52.0	77.7	172	271	327	331	279
MAX	222	120	89.7	82.2	79.5	87.2	178	265	442	524	525	451
(WY)	1994	1970	1956	1994	1959	1963	1990	1983	1976	1983	1983	1982
MIN	18.0	14.8	8.25	2.60	6.24	17.8	12.7	28.1	97.4	141	139	88.4
(WY)	1942	1942	1942	1942	1942	1942	1942	1942	1941	1977	1977	1941

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1941 - 1995
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ANNUAL TOTAL	45477		57799			
ANNUAL MEAN	125		158		158	
HIGHEST ANNUAL MEAN	--		--		229	1983
LOWEST ANNUAL MEAN	--		--		54.8	1942
HIGHEST DAILY MEAN	276	Jun 1	425	Jun 9	964	Sep 11 1973
LOWEST DAILY MEAN	46	Dec 10, 30, 31	43	Jan 24, Feb 15	1.0	Jan 4 1942
ANNUAL SEVEN-DAY MINIMUM	48	Dec 7	46	Dec 30	1.4	Jan 1 1942
INSTANTANEOUS PEAK FLOW	--		461a	Jun 9	3390b	Jun 15 1962
INSTANTANEOUS PEAK STAGE	--		4.47c	Feb 17	9.61c	Dec 27 1954
ANNUAL RUNOFF (AC-FT)	90200		114600		114500	
10 PERCENT EXCEEDS	230		351		354	
50 PERCENT EXCEEDS	89		78		98	
90 PERCENT EXCEEDS	60		49		39	

a Gage height, 3.78 ft.

b Gage height, 7.85 ft.

c Backwater from ice.

79

LOCATION.--Lat 43°25'30", long 108°10'42", in NW¹/₄ SW¹/₄ sec.9, T.5 N., R.6 E., Fremont County, Hydrologic Unit 10080005, on right bank 0.6 mi downstream from Boysen Dam and 13 mi north of Shoshoni.

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

REVISED RECORDS.--WSP 1709: Drainage area

GAGE.--Water-stage recorder. Datum of gage is 4,608.58 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Boysen Reservoir (station 06258900) since October 1951. Natural flow also affected by Bull Lake, Pilot Butte Reservoir, and several small reservoirs, combined capacity, 190,000 acre-ft, and diversions for irrigation of about 196,000 acres upstream from station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	516	520	538	601	474	472	458	794	2880	7380	3310	2110
2	519	520	542	599	472	472	471	804	2970	7350	3320	2110
3	514	515	556	598	483	473	466	809	3380	7280	3320	2120
4	504	512	566	596	484	476	484	802	3380	7250	3310	2130
5	500	508	560	597	484	478	491	810	3560	7290	3300	2120
6	502	508	558	598	484	474	478	913	4090	7300	3310	2140
7	498	509	566	599	487	492	484	1000	4430	7320	2860	2130
8	497	515	542	602	489	491	484	1110	4670	7340	2280	2140
9	498	511	538	602	488	494	488	1440	5160	7360	2120	2130
10	729	511	552	594	489	491	487	1800	5450	7390	2140	2130
11	714	511	550	588	482	481	487	2300	5470	7600	2140	2130
12	713	511	548	586	477	479	483	2420	5470	8180	2130	1800
13	644	511	554	585	472	474	482	2420	5480	8490	2130	1500
14	510	511	555	588	470	481	486	2410	5520	8810	2130	1510
15	516	511	559	585	466	485	478	2420	5610	9180	2120	1520
16	515	511	562	589	472	481	480	2410	5500	9420	2120	1520
17	516	514	566	582	463	474	527	2400	5430	8560	2100	1500
18	732	515	572	577	464	472	590	2400	5430	8010	2120	1500
19	628	520	576	578	469	480	646	2410	6150	7640	2120	1460
20	508	520	572	491	470	471	719	2410	7120	7070	2110	1480
21	502	524	575	482	468	473	767	2420	7270	6850	2100	1480
22	517	525	574	484	471	475	785	2640	7340	6770	2100	1470
23	515	527	572	488	473	481	783	2860	7360	6780	2090	1480
24	513	523	570	481	477	483	851	2860	7370	6370	2080	1490
25	511	527	571	479	474	478	907	2860	7370	5870	2080	1490
26	511	526	576	481	474	471	846	2870	7370	5850	2070	1480
27	513	525	579	481	474	461	815	2870	7330	5340	2070	1470
28	501	527	581	483	472	465	817	2860	7270	4320	2130	1470
29	514	535	591	483	---	462	816	2880	7300	3800	2110	1490
30	519	537	594	480	---	459	812	2880	7360	3800	2110	1480
31	519	---	602	474	---	462	---	2870	---	3610	2110	---
TOTAL	16908	15540	17517	17031	13322	14761	18368	65152	170490	215580	73540	51980
MEAN	545	518	565	549	476	476	612	2102	5683	6954	2372	1733
MAX	732	537	602	602	489	494	907	2880	7370	9420	3320	2140
MIN	497	508	538	474	463	459	458	794	2880	3610	2070	1460
AC-FT	33540	30820	34740	33780	26420	29280	36430	129200	338200	427600</		

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	1199	1196	1186	1115	1070	1109	1216	1425	2271	2476	1476	1285
MAX	2846	2086	2005	2208	2202	2027	2236	2359	7252	8816	2372	2502
(WY)	1983	1959	1959	1958	1958	1974	1974	1984	1991	1967	1995	1973
MIN	332	306	301	299	210	213	389	777	980	935	909	715
(WY)	1961	1978	1989	1989	1952	1952	1952	1952	1992	1992	1992	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1951 - 1995	
ANNUAL TOTAL	331808		690189		--	
ANNUAL MEAN	909		1891		1407	
HIGHEST ANNUAL MEAN	--		--		2349	1983
LOWEST ANNUAL MEAN	--		--		612	1961
HIGHEST DAILY MEAN	5490	Mar 29	9420	Jul 16	13200	Jul 7 1967
LOWEST DAILY MEAN	494	Sep 25	458	Apr 1	4.7	Apr 3 1962
ANNUAL SEVEN-DAY MINIMUM	502	Oct 3	463	Mar 26	106	Oct 12 1951
INSTANTANEOUS PEAK FLOW	--		9540	Jul 16	13500	Jul 7 1967
INSTANTANEOUS PEAK STAGE	--		11.24	Jul 16	13.35	Jul 7 1967
ANNUAL RUNOFF (AC-FT)	658100		1369000		1020000	
10 PERCENT EXCEEDS	1330		5980		2110	
50 PERCENT EXCEEDS	833		594		1170	
90 PERCENT EXCEEDS	515		475		638	

06260000 SOUTH FORK OWL CREEK NEAR ANCHOR, WY

LOCATION.--Lat 43°40'01", long 108°51'18", in sec.28, T.43 N., R.100 W., Hot Springs County, Hydrologic Unit 10080007, on left bank 0.2 mi upstream from normal high-water line of Anchor reservoir, 1.6 mi upstream from Anchor Dam, 2.6 mi southwest of Anchor, and 33 mi west of Thermopolis.

DRAINAGE AREA.--85.5 mi².

PERIOD OF RECORD.--April to May 1932, August 1939 to September 1943 (no winter records except 1941 water year), April 1959 to September 1985, May 1991 to September 1995 (discontinued).

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

GAGE.--Water-stage recorder and concrete flume. Datum of gage is 6,452.11 ft above sea level. See WSP 1916 for history of changes prior to Aug. 11, 1965. Aug. 11, 1965, to Nov. 3, 1968, at present site and datum 1.00 ft higher. Nov. 4, 1968, to June 5, 1970, at site 0.7 mi upstream on left bank at datum 52.36 ft higher. June 6, 1970, to Sept. 30, 1972, at site 0.7 mi upstream on right bank at datum 52.22 ft higher. Oct. 1, 1972, to June 5, 1978, at site 0.7 mi upstream on left bank at datum 52.36 ft higher. June 6, 1978 to Sept. 30, 1985, and May 13, 1991 to Sept. 30, 1993 at present site and datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: Nov. 15 to Apr. 4. Records fair except those for discharge above 100 cfs, and those for estimated discharges, which are poor. No diversion upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 3	1330	337	3.40	June 14	2100	*1,220	*5.65
June 6	0730	524	4.20	July 3	1630	382	3.65

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	8.2	4.7	3.0	4.5	3.5	12	5.3	112	227	56	25
2	9.9	6.2	4.7	2.4	4.0	4.3	7.5	6.8	149	278	55	25
3	8.7	3.0	4.2	2.2	3.2	3.8	8.0	6.8	294	322	51	24
4	8.5	5.7	4.5	2.1	3.5	3.5	6.0	7.8	192	272	51	25
5	12	5.7	4.2	2.6	4.0	4.5	5.6	15	243	260	46	40
6	12	7.9	4.4	3.0	4.2	3.6	4.5	20	409	270	47	20
7	11	7.6	3.5	3.5	4.0	2.9	17	21	241	230	47	22
8	8.8	7.3	2.8	4.0	3.8	3.3	15	23	144	207	46	33
9	8.0	7.6	3.0	4.5	3.7	3.8	7.8	23	104	203	38	21
10	7.5	5.2	2.6	5.0	4.0	4.1	6.6	31	91	201	35	20
11	7.4	7.3	2.5	4.5	3.3	4.5	6.0	32	128	185	42	24
12	7.3	7.9	2.6	4.2	2.5	5.6	7.9	36	355	168	37	23
13	7.3	6.7	4.0	4.2	2.2	4.0	14	36	685	218	33	22
14	7.3	5.3	3.7	4.3	2.5	4.2	20	36	783	162	29	21
15	8.8	5.0	3.5	4.5	2.7	4.7	12	47	754	141	28	21
16	8.3	6.0	4.1	4.0	3.1	4.8	8.4	74	645	100	29	20
17	7.7	5.0	4.7	3.7	3.5	3.9	6.2	83	544	97	28	19
18	8.3	5.2	4.5	3.3	4.0	4.6	6.2	86	453	88	28	19
19	7.6	4.5	4.2	3.6	4.5	4.7	6.5	78	415	122	28	20
20	6.2	3.8	3.8	3.4	4.3	4.0	5.1	73	385	128	29	16
21	6.9	3.4	3.5	2.9	4.3	4.4	5.5	89	387	110	28	18
22	6.3	3.0	3.6	2.6	4.4	4.0	5.5	84	337	99	28	18
23	6.8	2.7	3.3	2.4	4.5	4.7	5.3	56	301	89	27	18
24	8.7	2.6	3.4	2.4	4.9	4.4	5.1	44	328	87	26	17
25	8.5	3.0	3.5	2.3	5.4	3.9	6.5	40	351	83	25	18
26	7.8	3.7	3.3	3.0	5.8	4.4	4.1	39	320	79	27	18
27	7.9	3.4	3.4	3.6	5.0	3.7	5.0	37	309	78	28	17
28	7.3	3.0	3.7	3.0	4.0	4.1	7.3	37	319	77	28	17
29	4.1	3.4	4.0	2.7	---	5.0	7.1	42	277	72	27	18
30	2.7	4.2	4.0	3.0	---	7.0	6.2	67	263	72	26	19
31	5.4	---	3.5	4.0	---	10	---	103	---	64	25	---
TOTAL	244.7	153.5	115.4	103.9	109.8	137.9	239.9	1378.7	10318	4789	1078	638
MEAN	7.89	5.12	3.72	3.35	3.92	4.45	8.00	44.5	344	154	34.8	21.3
MAX	12	8.2	4.7	5.0	5.8	10	20	103	783	322	56	40
MIN	2.7	2.6	2.5	2.1	2.2	2.9	4.1	5.3	91	64	25	16
AC-FT	485	304	229	206	218	274	476	2730	20470	9500	2140	1270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

	MEAN	11.8	7.45	4.89	3.56	3.37	5.30	15.1	76.7	167	75.2	26.7	17.2
MAX	27.1	13.7	9.75	8.06	6.99	15.4	51.0	184	368	203	122	61.8	
(WY)	1941	1993	1993	1993	1993	1972	1962	1991	1967	1975	1941	1941	
MIN	6.69	3.46	1.17	.077	.19	.32	1.63	24.7	20.5	8.44	8.33	6.69	
(WY)	1970	1965	1980	1979	1980	1980	1973	1968	1994	1994	1985	1960	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1941 - 1995
ANNUAL TOTAL	4604.3	19306.8	--
ANNUAL MEAN	12.6	52.9	34.3
HIGHEST ANNUAL MEAN	--	--	62.0
LOWEST ANNUAL MEAN	--	--	13.6
HIGHEST DAILY MEAN	117	783	783
LOWEST DAILY MEAN	1.5	2.1	.00
ANNUAL SEVEN-DAY MINIMUM	1.8	2.7	.00
INSTANTANEOUS PEAK FLOW	--	1220	1940a
INSTANTANEOUS PEAK STAGE	--	5.65	8.73b
ANNUAL RUNOFF (AC-FT)	9130	38300	24860
10 PERCENT EXCEEDS	32	175	102
50 PERCENT EXCEEDS	7.3	7.6	10
90 PERCENT EXCEEDS	2.6	3.3	2.5

a From rating curve extended above 640 ft³/s on basis of slope-area measurement of peak flow.

b Site and datum then in use.

06260400 SOUTH FORK OWL CREEK BELOW ANCHOR RESERVOIR, WY

LOCATION.--Lat 43°39'57", long 108°47'34", in sec.25, T.43 N., R.100 W., Hot Springs County, Hydrologic Unit 10080007, on left bank 1.6 mi downstream from Anchor Dam and 30 mi west of Thermopolis.

DRAINAGE AREA.--131 mi².

PERIOD OF RECORD.--April 1959 to current year (no winter records since 1988).

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

GAGE.--Water-stage recorder. Elevation of gage is 6,120 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Anchor Dam. No diversion upstream from station. Result of discharge measurements, in cubic feet per second, made during the period when station was not in operation is given below:

Oct. 25 . . . 1.98

Mar. 28 . . . 2.52

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	1.1	2.9	39	96	61	63
2	---	---	---	---	---	---	2.5	3.1	45	62	70	56
3	---	---	---	---	---	---	2.5	3.5	47	119	62	32
4	---	---	---	---	---	---	3.4	3.5	52	153	67	15
5	---	---	---	---	---	---	3.5	3.5	54	125	75	35
6	---	---	---	---	---	---	3.6	3.5	80	87	82	21
7	---	---	---	---	---	---	3.7	3.7	115	87	93	18
8	---	---	---	---	---	---	4.0	3.9	150	100	105	31
9	---	---	---	---	---	---	4.4	3.9	171	108	104	26
10	---	---	---	---	---	---	5.4	4.1	178	108	102	19
11	---	---	---	---	---	---	4.7	4.4	185	107	94	17
12	---	---	---	---	---	---	4.3	4.7	185	107	87	15
13	---	---	---	---	---	---	4.4	5.0	192	107	85	13
14	---	---	---	---	---	---	4.5	4.9	201	108	84	12
15	---	---	---	---	---	---	4.7	6.7	204	107	82	12
16	---	---	---	---	---	---	4.9	20	209	107	86	12
17	---	---	---	---	---	---	4.9	30	193	107	88	11
18	---	---	---	---	---	---	4.7	39	154	91	87	11
19	---	---	---	---	---	---	4.4	46	144	76	85	21
20	---	---	---	---	---	---	4.3	50	114	76	83	23
21	---	---	---	---	---	---	4.1	50	84	66	81	18
22	---	---	---	---	---	---	4.1	51	84	40	79	17
23	---	---	---	---	---	---	3.9	44	84	39	76	15
24	---	---	---	---	---	---	3.9	34	85	39	74	14
25	---	---	---	---	---	---	3.7	33	85	39	71	14
26	---	---	---	---	---	---	2.2	32	86	38	69	13
27	---	---	---	---	---	---	2.2	32	86	37	67	13
28	---	---	---	---	---	---	3.3	30	119	45	66	13
29	---	---	---	---	---	---	3.5	29	131	48	64	14
30	---	---	---	---	---	---	3.5	29	131	47	64	15
31	---	---	---	---	---	---	---	30	---	47	69	---
TOTAL	---	---	---	---	---	---	114.3	640.3	3687	2523	2462	609
MEAN	---	---	---	---	---	---	3.81	20.7	123	81.4	79.4	20.3
MAX	---	---	---	---	---	---	5.4	51	209	153	105	63
MIN	---	---	---	---	---	---	1.1	2.9	39	37	61	11
AC-FT	---	---	---	---	---	---	227	1270	7310	5000	4880	1210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1988, BY WATER YEAR (WY)

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
MEAN	7.40	2.71	.98	.40	.71	2.06	10.2	49.4	99.1	57.4	22.1	11.6																		
MAX	20.5	8.90	3.86	2.39	2.82	8.66	30.2	90.1	226	124	60.4	23.7																		
(WY)	1983	1982	1982	1981	1988	1960	1987	1974	1986	1982	1975	1963																		
MIN	2.49	.013	.000	.000	.000	.000	1.01	14.3	34.7	11.9	4.18	4.01																		
(WY)	1965	1962	1961	1960	1960	1961	1975	1981	1985	1988	1966	1964																		

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR*	WATER YEARS 1959 - 1988
ANNUAL MEAN	---	---	22.1
HIGHEST ANNUAL MEAN	---	---	35.9
LOWEST ANNUAL MEAN	---	---	11.3
HIGHEST DAILY MEAN	145 May 14	209 Jun 16	303 Jun 12 1991#
LOWEST DAILY MEAN	.90 Apr 7	1.1 Apr 1	.00 Several days, most years#
ANNUAL SEVEN-DAY MINIMUM	1.0 Apr 5	2.9 Apr 1	.00 most years
INSTANTANEOUS PEAK FLOW	---	213 Jun 16	373a May 26 1967#
INSTANTANEOUS PEAK STAGE	---	3.68 Jun 16	4.02 Jun 11 1991#
ANNUAL RUNOFF (AC-FT)	---	---	16040
10 PERCENT EXCEEDS	38	117	76
50 PERCENT EXCEEDS	7.3	44	5.8
90 PERCENT EXCEEDS	2.7	3.7	.00

* During period of operation.

For period of record through 1995.

a Gage height, 3.64 ft.

YELLOWSTONE RIVER BASIN

06262300 NORTH FORK OWL CREEK ABOVE BASIN RANCH, NEAR ANCHOR, WY

LOCATION.--Lat 43°41'21", long 108°50'24", in NW¼ SW¼ SE¼ sec.15, T.43 N., R.100 W., Hot Springs County, Hydrologic Unit 10080007, on right bank 0.1 mi downstream from Anchor Dam road, 1.1 mi southwest of Anchor, and 32 mi west of Thermopolis.

DRAINAGE AREA.--61 mi², approximately.

PERIOD OF RECORD.--April 1962 to September 1975 (discharge measurements only in 1973 and no winter records 1974), April 1991 to September 1995 (discontinued). Published as "below Cup Creek, near Anchor" 1962-67.

GAGE.--Water-stage recorder. Elevation of gage is 6,340 ft above sea level, from topographic map. Prior to Oct. 1, 1967 at site 0.1 mi upstream at different datum. Oct. 1, 1967 to Sept. 5, 1972 at site 0.5 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 3, 4, 9-11, 14-17, 19-30, and Dec. 4 to Mar. 22. Records fair except those for estimated discharges, which are poor. Several small reservoirs upstream from station used for storage of stock and irrigation water. Diversion upstream from station into H.D. Ranch ditch for irrigation of about 820 acres downstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 160 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 3	1515	*342	*4.36	June 12	2245	306	3.86
June 6	0715	296	3.70				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	4.6	1.6	.40	1.1	.85	3.3	2.9	80	98	17	3.5
2	3.2	2.8	1.8	.30	.90	1.2	4.8	8.9	94	94	16	3.5
3	3.0	2.8	1.9	.25	.70	1.1	4.5	7.6	213	93	15	3.5
4	5.0	3.0	1.7	.22	.80	1.0	2.2	7.1	117	87	14	4.2
5	7.5	3.0	1.5	.20	1.0	1.3	1.8	13	138	77	14	4.6
6	5.9	3.5	1.6	.25	1.2	1.0	2.9	20	205	77	13	2.5
7	6.5	3.4	.70	.30	1.3	.90	4.3	17	142	80	12	2.6
8	4.7	3.0	.40	.45	1.1	.90	2.4	15	107	75	11	11
9	4.7	3.2	.70	.55	.90	1.3	1.3	12	89	69	9.8	4.9
10	4.6	2.2	.50	.90	.70	2.5	1.3	26	69	63	9.6	3.6
11	4.3	2.9	.30	1.4	.50	5.0	1.4	39	86	51	9.6	3.2
12	3.5	3.1	.50	1.0	.40	4.0	1.4	60	173	51	8.9	2.9
13	3.3	3.1	1.1	.90	.35	3.5	6.6	27	228	48	7.7	2.6
14	3.1	2.7	.90	1.0	.45	4.0	8.5	19	226	41	7.1	2.5
15	4.0	2.3	.70	1.3	.60	4.5	2.0	59	198	38	6.7	2.4
16	4.2	3.5	1.1	1.0	.80	5.0	2.2	108	185	36	6.3	2.3
17	5.6	2.3	1.4	.90	1.0	5.0	2.4	97	160	34	6.5	2.5
18	6.8	2.7	1.6	.80	1.3	4.4	2.0	89	119	38	6.4	2.8
19	4.5	3.4	1.3	.90	1.5	5.5	2.0	83	109	48	6.2	5.6
20	3.7	3.3	1.1	.80	.90	5.0	1.7	80	106	42	5.5	9.6
21	4.9	3.0	1.2	.70	.95	5.8	1.7	88	108	31	5.2	6.0
22	4.6	2.0	1.0	.56	1.0	5.5	1.7	81	103	30	5.2	6.2
23	3.7	1.3	1.3	.47	1.1	4.6	1.7	62	91	29	5.0	5.8
24	4.1	.90	.60	.50	1.4	4.2	1.9	49	83	26	6.0	5.1
25	4.1	1.2	1.0	.45	1.8	3.7	2.3	39	85	24	5.7	5.0
26	4.6	1.7	1.2	.58	2.3	4.9	1.9	35	84	22	5.2	4.6
27	5.3	1.2	.86	.68	1.4	4.1	2.0	33	90	21	4.3	4.0
28	4.9	.80	1.1	.60	1.1	4.6	3.0	31	97	19	4.0	2.7
29	3.0	1.1	1.3	.50	---	4.5	2.7	33	94	18	3.7	3.2
30	2.8	1.3	.90	.60	---	4.0	2.4	42	85	17	3.6	6.1
31	3.9	---	.60	.70	---	3.2	---	70	---	18	3.5	---
TOTAL	138.7	75.30	33.46	20.16	28.55	107.05	80.3	1353.5	3764	1495	253.7	129.0
MEAN	4.47	2.51	1.08	.65	1.02	3.45	2.68	43.7	125	48.2	8.18	4.30
MAX	7.5	4.6	1.9	1.4	2.3	5.8	8.5	108	228	98	17	11
MIN	2.8	.80	.30	.20	.35	.85	1.3	2.9	69	17	3.5	2.3
AC-FT	275	149	66	40	57	212	159	2680	7470	2970	503	285

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

	MEAN	STANDARD DEVIATION	CORRELATION COEFFICIENT	SLOPE OF REGRESSION LINE	INTERCEPT OF REGRESSION LINE	P-VALUE	CONFIDENCE INTERVAL FOR SLOPE	CONFIDENCE INTERVAL FOR INTERCEPT	COEFFICIENT OF DETERMINATION	F-STATISTIC	D.F.	T-STATISTIC	P-VALUE
MEAN	3.45	2.86	1.92	1.29	2.14	5.17	13.7	41.8	68.3	19.1	5.97	4.32	
MAX	7.67	8.07	4.21	3.97	4.39	18.8	54.0	100	139	56.5	19.2	15.8	
(WY)	1972	1994	1993	1993	1993	1972	1962	1963	1963	1975	1968	1991	
MIN	.000	.043	.24	.031	.000	1.76	2.69	9.93	.38	.000	.30	.000	
(WY)	1965	1967	1967	1967	1966	1967	1995	1994	1994	1994	1966	1966	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1962 - 1995

ANNUAL TOTAL	1289.01		7478.72		--	
ANNUAL MEAN	3.53		20.5		13.6	
HIGHEST ANNUAL MEAN	--		--		24.4	1963
LOWEST ANNUAL MEAN	--		--		4.16	1994
HIGHEST DAILY MEAN	33	Apr 17, 18	228	Jun 13	430	Jun 5 1968
LOWEST DAILY MEAN	.00	Jun 25 to Jul 31, Aug 19-31	.20	Jan 5	.00	Many days, several years
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 25	.27	Jan 1	.00	Aug 6 1964
INSTANTANEOUS PEAK FLOW	--		342	Jun 3	1370a	Jun 15 1963
INSTANTANEOUS PEAK STAGE	--		4.36	Jun 3	--	
ANNUAL RUNOFF (AC-FT)	2560		14830		9830	
10 PERCENT EXCEEDS	7.5		83		46	
50 PERCENT EXCEEDS	1.5		3.7		4.1	
90 PERCENT EXCEEDS	.00		.76		.20	

a From culvert and flow over embankment computation of peak flow.

YELLOWSTONE RIVER BASIN

83

06264700 BIGHORN RIVER AT LUCERNE, WY

LOCATION.--Lat 43°44'10", long 108°09'38", in SE¹/₄ sec.32, T.44 N., R.94 W., Hot Springs County, Hydrologic Unit 10080007, at bridge on Black Mountain road, 0.7 mi upstream from Kirby Creek, 0.8 mi east of Lucerne, and 1.0 mi downstream from Owl Creek.

PERIOD OF RECORD.--Water years 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)
OCT 25...	1055	740	854	8.4	10.0	11.5	659
MAR 28...	1035	528	923	8.4	4.0	1.0	660
JUN 20...	1100	7700	700	8.2	16.5	17.0	655
SEP 27...	1115	1750	530	8.5	16.0	23.0	653

DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 25...	12.2	126	84	<0.01	<0.05	<0.02	<0.01
MAR 28...	12.0	106	260	<0.01	0.08	0.05	0.02
JUN 20...	7.9	95	K3200	<0.01	0.12	0.05	0.01
SEP 27...	11.6	138	210	<0.01	0.06	<0.02	0.02

K-Results based on colony count outside the acceptable range (non-ideal colony count).

06265337 COTTONWOOD CREEK AT HIGH ISLAND RANCH, NEAR HAMILTON DOME, WY

LOCATION.--Lat 43°45'46", long 108°40'34", in SW¹/₄ NE¹/₄ SE¹/₄ sec.24, T.44 N., R.99 W., Hot Springs County, Hydrologic Unit 10080007, on right bank 6 ft upstream from county bridge, 5.2 miles west of Hamilton Dome, and 12 miles south of Grass Creek.

DRAINAGE AREA.--81.4 mi².

PERIOD OF RECORD.--May 1977 to September 1978 (discharge measurements and water quality only), April 1993 to current year. Prior to April 1993, published as Cottonwood Creek at county bridge, near Hamilton Dome.

GAGE.--Water-stage recorder. Elevation of gage is 5,680 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 25 to Mar 15. Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.0	.07	.01	.12	.38	6.6	11	62	56	7.7	2.8
2	7.6	.80	.10	.00	.10	.48	5.1	20	60	55	7.0	3.0
3	9.1	.50	.12	.00	.06	.45	6.3	25	114	51	6.9	3.0
4	9.8	.70	.10	.00	.10	.40	5.9	21	121	49	7.4	3.5
5	8.5	.40	.04	.00	.15	.50	6.8	25	114	42	8.2	6.2
6	9.0	.50	.06	.00	.20	.40	9.1	37	125	39	6.8	4.6
7	11	.45	.01	.00	.22	.40	9.1	32	114	36	6.3	4.7
8	9.4	.40	.00	.00	.14	.50	6.6	38	122	33	5.7	9.1
9	10	.50	.00	.02	.05	1.1	4.6	39	108	30	5.8	6.1
10	11	.60	.00	.10	.00	2.5	4.2	40	108	27	5.7	4.7
11	12	.35	.00	.05	.00	15	5.1	46	109	26	5.8	3.5
12	13	.35	.00	.02	.00	14	5.1	59	114	24	5.2	2.7
13	13	.70	.10	.00	.00	10	7.6	58	116	24	5.0	2.4
14	13	.60	.05	.00	.00	13	8.5	55	116	21	5.1	2.1
15	14	.40	.02	.05	.02	16	5.8	57	125	19	5.0	2.0
16	15	.50	.04	.04	.04	18	5.9	61	113	18	4.8	1.7
17	15	.35	.10	.02	.14	12	6.0	60	110	18	4.8	1.9
18	8.3	.25	.15	.01	.25	14	5.4	64	108	20	4.3	2.1
19	3.3	.30	.10	.01	.30	8.9	5.6	68	98	18	4.2	4.2
20	2.5	.30	.05	.01	.38	9.8	4.5	68	92	20	3.8	13
21	2.1	.20	.06	.00	.40	15	4.2	67	89	18	3.0	6.7
22	2.1	.10	.06	.00	.45	6.7	4.2	62	86	16	2.5	5.4
23	1.2	.05	.06	.00	.60	7.8	4.3	68	79	15	2.5	5.2
24	.98	.02	.02	.00	.80	4.9	4.0	74	74	13	4.9	4.9
25	1.5	.04	.04	.00	1.0	4.5	6.6	72	71	11	4.6	3.8
26	2.5	.08	.10	.00	1.2	4.3	6.6	69	69	10	4.1	3.4
27	4.0	.02	.05	.06	.80	4.3	7.6	67	69	9.3	3.2	3.2
28	3.0	.01	.08	.02	.40	3.9	13	65	72	8.7	2.9	3.0
29	1.9	.03	.12	.00	---	3.5	13	65	67	8.4	3.1	3.2
30	1.0	.06	.06	.00	---	2.5	13	65	57	7.8	3.0	6.0
31	1.5	---	.01	.04	---	4.0	---	61	---	8.3	2.8	---
TOTAL	219.18	11.56	1.77	0.46	7.92	199.21	200.3	1619	2882	751.5	152.1	128.1
MEAN	7.07	.39	.057	.015	.28	6.43	6.68	52.2	96.1	24.2	4.91	4.27
MAX	15	2.0	.15	.10	1.2	18	13	74	125	56	8.2	13
MIN	.98	.01	.00	.00	.00	.38	4.0	11	57	7.8	2.5	1.7
AC-FT	435	23	3.5	.9	16	395	397	3210	5720	1490	302	254

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

	1993	1994	1995	1993	1994	1995	1993	1994	1995	1993	1994	1995
MEAN	6.33	3.65	1.33	.66	.88	6.42	8.42	46.7	52.3	14.9	4.67	3.32
MAX	7.07	6.91	2.60	1.30	1.47	6.43	13.1	72.8	96.1	24.2	8.05	5.59
(WY)	1995	1994	1994	1994	1994	1995	1994	1993	1995	1995	1993	1993
MIN	5.60	.39	.057	.015	.28	6.41	5.43	15.1	5.00	2.55	1.05	.11
(WY)	1994	1995	1995	1995	1995	1994	1993	1994	1994	1994	1994	1994

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1993 - 1995
ANNUAL TOTAL	1640.90	6173.10	--
ANNUAL MEAN	4.50	16.9	11.0
HIGHEST ANNUAL MEAN	--	--	16.9
LOWEST ANNUAL MEAN	--	--	5.12
HIGHEST DAILY MEAN	27	125	160
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW	--	190	510
INSTANTANEOUS PEAK STAGE	--	2.08	4.13
ANNUAL RUNOFF (AC-FT)	3250	12240	7980
10 PERCENT EXCEEDS	13	65	57
50 PERCENT EXCEEDS	1.6	4.3	5.1
90 PERCENT EXCEEDS	.04	.02	.09

YELLOWSTONE RIVER BASIN

85

06274300 BIGHORN RIVER AT BASIN, WY

LOCATION.--Lat 44°23'00", long 108°02'08", in SE¹/₄ NW¹/₄ NE¹/₄ sec.21, T.51 N., R.93 W., Big Horn County, Hydrologic Unit 10080007, on left bank 10 ft. downstream from county bridge on E Street, 0.2 mi northeast of Big Horn County Courthouse in Basin, and 1.8 mi downstream from Antelope Creek.

DRAINAGE AREA.--13,223 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,821.29 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 18-25, Nov. 28 to Mar. 23, May 12-15, and May 28 to June 1. Records fair except those for estimated daily discharges, which are poor. Diversions for irrigation of about 226,000 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	765	969	960	860	580	1100	833	993	3700	9460	3620	1480
2	830	973	980	840	540	940	824	900	3910	9460	3270	1540
3	955	977	980	780	500	820	815	871	5080	9550	3180	1630
4	1370	926	1050	720	480	880	814	852	6570	9620	3150	1710
5	1260	909	1100	640	480	960	805	878	7440	9500	3120	1720
6	1270	900	1100	680	460	940	823	986	7930	9300	3130	1680
7	1200	914	1040	740	450	900	815	1170	8490	9330	3090	1690
8	1180	949	1000	760	440	940	842	1300	8370	9680	2610	1800
9	1140	946	960	780	430	960	889	1500	9020	9580	1970	2150
10	1130	959	940	800	420	1000	909	2180	9500	9560	1710	2370
11	1210	956	900	800	410	1100	825	2920	9030	9350	1730	2050
12	1310	962	880	800	410	1200	779	3360	8630	9560	1660	2030
13	1280	996	860	800	410	1400	760	3270	9330	10000	1610	1840
14	1300	1010	880	800	400	1300	726	4340	10500	10300	1580	1370
15	1140	966	900	760	430	1200	742	4400	11200	10300	1540	1300
16	1080	969	900	740	460	1100	786	3820	12000	10600	1510	1310
17	1460	981	900	700	510	1100	796	3800	11900	10800	1460	1300
18	1480	960	900	660	560	1000	761	3780	10400	10100	1400	1320
19	1480	920	900	620	610	1000	742	3880	9310	9180	1420	1360
20	1380	920	900	580	700	960	760	3930	9610	9020	1510	1950
21	1190	960	860	560	900	940	769	3970	10900	8480	1490	2400
22	1220	960	860	540	1200	940	778	4010	11400	8230	1460	1920
23	1190	940	860	520	1700	950	805	4380	10800	8180	1440	1840
24	1140	980	860	496	1400	959	787	4460	10100	8010	1440	1770
25	1130	1000	860	500	1300	969	763	4150	9800	7480	1450	1790
26	1000	1010	860	500	1300	920	926	4140	9730	6770	1480	1800
27	970	983	880	540	1200	880	920	3860	9810	6510	1490	1780
28	1020	940	900	560	1200	871	790	3700	10600	5720	1500	1760
29	1010	900	900	580	---	834	805	3700	10200	4490	1460	1760
30	937	940	900	600	---	833	898	3600	9730	3850	1420	2920
31	950	---	860	580	---	842	---	3500	---	3820	1440	---
TOTAL	35977	28675	28630	20836	19880	30738	24287	92600	274990	265790	60340	53340
MEAN	1161	956	924	672	710	992	810	2987	9166	8574	1946	1778
MAX	1480	1010	1100	860	1700	1400	926	4460	12000	10800	3620	2920
MIN	765	900	860	496	400	820	726	852	3700	3820	1400	1300
AC-FT	71360	56880	56790	41330	39430	60970	48170	183700	545400	527200	119700	105800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1515	1437	1279	1151	1169	1328	1240	2304	4005	2199	1028	1265
MAX	2346	2439	1933	1975	1644	2118	2302	4030	11210	8574	2105	2082
(WY)	1984	1984	1985	1992	1992	1986	1986	1984	1991	1995	1984	1991
MIN	694	659	642	566	504	634	723	1052	1075	357	455	749
(WY)	1989	1989	1989	1989	1989	1989	1992	1989	1994	1988	1988	1968

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1984 - 1995
ANNUAL TOTAL	382510	936083	--
ANNUAL MEAN	1048	2565	1660
HIGHEST ANNUAL MEAN	--	--	2565
LOWEST ANNUAL MEAN	--	--	800
HIGHEST DAILY MEAN	6280	12000	16600
LOWEST DAILY MEAN	458	400	276
ANNUAL SEVEN-DAY MINIMUM	514	416	292
INSTANTANEOUS PEAK FLOW	--	13100	19500
INSTANTANEOUS PEAK STAGE	--	9.64	10.49
ANNUAL RUNOFF (AC-FT)	758700	1857000	1203000
10 PERCENT EXCEEDS	1470	9300	2600
50 PERCENT EXCEEDS	973	1100	1230
90 PERCENT EXCEEDS	578	700	680

YELLOWSTONE RIVER BASIN

06274300 BIGHORN RIVER AT BASIN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)
OCT 25...	1430	1040	1020	8.5	9.0	16.5	651
MAR 28...	1400	847	1040	8.6	3.0	5.0	670
JUN 20...	1400	9980	575	8.3	18.0	19.0	665
SEP 27...	1355	1860	762	8.5	16.0	21.0	662

DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 25...	12.0	122	30	<0.01	0.31	<0.02	<0.01
MAR 28...	12.2	104	K5	<0.01	0.38	0.02	0.01
JUN 20...	7.9	96	K1500	<0.01	0.16	0.02	0.02
SEP 27...	8.7	102	120	<0.01	0.22	<0.02	0.01

K-Results based on colony count outside the acceptable range (non-ideal colony count).

YELLOWSTONE RIVER BASIN

87

06276500 GREYBULL RIVER AT MEETEETSE, WY

LOCATION.--Lat 44°09'20", long 108°52'35", in sec.4, T.48 N., R.100 W., Park County, Hydrologic Unit 10080009, on right bank at Meeteetse, 0.3 mi upstream from bridge on State Highway 120, and 3.0 mi upstream from Meeteetse Creek.

DRAINAGE AREA.--681 mi².

PERIOD OF RECORD.--June to December 1897, April to October 1903 (gage heights and discharge measurements only), July 1920 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1309.

REVISED RECORDS.--WSP 1309: 1923(M), 1924, 1925(M). WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,739.42 ft above sea level. See WSP 1916 for history of changes prior to Apr. 28, 1938. Apr. 28, 1938 to May 24, 1961, at site on left bank at datum 2.00 ft higher. May 25, 1961, to May 9, 1967, at site 100 ft downstream at present datum.

REMARKS.--Estimated daily discharges: July 16, 19. Records fair. Some regulation by Sunshine Reservoir beginning May 1940, capacity, 52,990 acre-ft, and Lower Sunshine Reservoir beginning December 1972, capacity, 58,900 acre-ft. Diversions for irrigation of about 10,600 acres upstream from station. Several diversions upstream from station for irrigation downstream from station. Results of discharge measurement, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 3 . . . 137
Mar. 8 . . . 29.0

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	34	104	709	953	639	603
2	---	---	---	---	---	---	34	138	874	990	709	612
3	---	---	---	---	---	---	35	209	2110	1100	760	603
4	---	---	---	---	---	---	35	223	1700	886	750	617
5	---	---	---	---	---	---	35	262	1520	817	741	653
6	---	---	---	---	---	---	35	355	2330	861	709	593
7	---	---	---	---	---	---	35	332	1450	1160	709	587
8	---	---	---	---	---	---	35	322	978	1300	686	636
9	---	---	---	---	---	---	35	306	650	1160	661	530
10	---	---	---	---	---	---	35	308	477	1060	625	502
11	---	---	---	---	---	---	34	364	617	1450	681	467
12	---	---	---	---	---	---	35	407	1710	1710	658	432
13	---	---	---	---	---	---	34	261	3200	1520	609	425
14	---	---	---	---	---	---	34	97	3260	1280	585	409
15	---	---	---	---	---	---	34	95	3520	1130	587	398
16	---	---	---	---	---	---	37	157	2760	1050	566	401
17	---	---	---	---	---	---	39	256	2700	1030	620	414
18	---	---	---	---	---	---	93	263	1790	1090	664	421
19	---	---	---	---	---	---	97	269	1280	1070	684	427
20	---	---	---	---	---	---	91	262	1250	1080	647	450
21	---	---	---	---	---	---	97	338	1210	918	675	362
22	---	---	---	---	---	---	97	414	1180	827	686	349
23	---	---	---	---	---	---	95	312	911	744	709	304
24	---	---	---	---	---	---	95	286	774	701	747	264
25	---	---	---	---	---	---	104	364	847	684	712	243
26	---	---	---	---	---	---	101	362	1050	661	686	245
27	---	---	---	---	---	---	104	351	1320	623	653	243
28	---	---	---	---	---	---	141	336	1270	612	631	234
29	---	---	---	---	---	---	138	420	855	650	609	249
30	---	---	---	---	---	---	113	593	783	695	606	332
31	---	---	---	---	---	---	---	681	---	647	603	---
TOTAL	---	---	---	---	---	---	1961	9447	45085	30459	20607	13005
MEAN	---	---	---	---	---	---	65.4	305	1503	983	665	433
MAX	---	---	---	---	---	---	141	681	3520	1710	760	653
MIN	---	---	---	---	---	---	34	95	477	612	566	234
AC-FT	---	---	---	---	---	---	3890	18740	89430	60420	40870	25800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1971, BY WATER YEAR (WY)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931-1971, BY WATER YEAR (WY)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</	
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SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1931 - 1971**
ANNUAL MEAN	---	333
HIGHEST ANNUAL MEAN	---	566
LOWEST ANNUAL MEAN	---	130
HIGHEST DAILY MEAN	3520 Jun 15	6770 Jun 6 1957
LOWEST DAILY MEAN	34 Apr 1,2,11,13-15	13 Apr 18 1989#
ANNUAL SEVEN-DAY MINIMUM	---	20 Feb 25 1960
INSTANTANEOUS PEAK FLOW	5110a Jun 15	13600b Jun 15 1963#
INSTANTANEOUS PEAK STAGE	6.09 Jun 14	9.20c Jun 15 1963#
ANNUAL RUNOFF (AC-FT)	---	241200
10 PERCENT EXCEEDS	---	800
50 PERCENT EXCEEDS	---	130
90 PERCENT EXCEEDS	---	55

* During period of operation.

** Record prior to October 1930 not used in computations, monthly discharge only for selected months.

For period of record through 1995.

a Gage height, 6.07 ft.

b From rating curve extended above 4,600 ft³/s on basis of velocity-area study.

c From floodmark.

YELLOWSTONE RIVER BASIN

89

06278500 SHELL CREEK NEAR SHELL, WY

LOCATION.--Lat 44°33'54", long 107°42'44", in SE¹/₄ SW¹/₄ sec.17, T.53 N., R.90 W., Big Horn County, Hydrologic Unit 10080010, on right bank 0.9 mi upstream from White Creek and 5.0 mi northeast of Shell.

DRAINAGE AREA.--145 mi².

PERIOD OF RECORD.--October 1940 to current year (no winter records since 1971). Prior to December 1940, monthly discharge only, published in WSP 1309.

REVISED RECORDS.--WSP 1239: 1941, 1945(M). WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,370.05 ft above sea level.

REMARKS.--Estimated daily discharges: Apr. 1-19. Records good except those for estimated daily discharges, which are poor. Some regulation by two small reservoirs, capacity, 3,650 acre-ft. Diversions upstream from station for irrigation of about 80 acres downstream from station. Result of discharge measurement, in cubic feet per second, made during the period when station was not in operation, is given below:

Oct. 11 . . . 55.4

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 750 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 6	2000	1,070	4.86	June 28	0430	904	4.58
June 16	0405	*2,450	*6.67				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	33	35	180	412	133	119
2	---	---	---	---	---	---	33	38	227	430	126	118
3	---	---	---	---	---	---	34	37	317	533	121	118
4	---	---	---	---	---	---	35	36	477	488	118	119
5	---	---	---	---	---	---	38	40	747	453	114	121
6	---	---	---	---	---	---	38	47	956	434	111	116
7	---	---	---	---	---	---	39	49	810	472	105	116
8	---	---	---	---	---	---	43	52	546	472	103	116
9	---	---	---	---	---	---	39	54	405	419	103	121
10	---	---	---	---	---	---	27	53	332	388	100	113
11	---	---	---	---	---	---	31	65	314	382	99	110
12	---	---	---	---	---	---	38	74	467	374	96	108
13	---	---	---	---	---	---	40	68	915	345	93	106
14	---	---	---	---	---	---	42	59	1280	302	88	106
15	---	---	---	---	---	---	39	65	1650	268	114	105
16	---	---	---	---	---	---	38	86	1910	245	123	104
17	---	---	---	---	---	---	38	97	1530	220	142	103
18	---	---	---	---	---	---	37	105	1080	211	144	105
19	---	---	---	---	---	---	37	119	881	225	140	107
20	---	---	---	---	---	---	38	114	936	247	140	110
21	---	---	---	---	---	---	38	124	1010	213	138	103
22	---	---	---	---	---	---	38	123	951	211	137	100
23	---	---	---	---	---	---	38	102	655	193	137	105
24	---	---	---	---	---	---	36	97	504	178	128	102
25	---	---	---	---	---	---	37	95	537	168	126	80
26	---	---	---	---	---	---	35	93	640	158	124	71
27	---	---	---	---	---	---	35	93	688	151	123	71
28	---	---	---	---	---	---	38	97	810	144	123	69
29	---	---	---	---	---	---	38	106	581	131	121	70
30	---	---	---	---	---	---	38	119	441	137	121	76
31	---	---	---	---	---	---	---	149	---	138	121	---
TOTAL	---	---	---	---	---	---	1108	2491	22777	9142	3712	3088
MEAN	---	---	---	---	---	---	36.9	80.4	759	295	120	103
MAX	---	---	---	---	---	---	43	149	1910	533	144	121
MIN	---	---	---	---	---	---	27	35	180	131	88	69
AC-FT	---	---	---	---	---	---	2200	4940	45180	18130	7360	6130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1971, BY WATER YEAR (WY)

	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
MEAN	56.9	47.2	41.5	36.9	35.2	34.7	50.9	272	519	166	91.1	70.9																			
MAX	95.2	76.4	60.4	48.7	44.6	48.0	138	438	990	308	135	134																			
(WY)	1942	1969	1969	1948	1947	1946	1946	1969	1968	1945	1968	1968																			
MIN	35.3	31.5	30.0	28.3	26.9	25.9	29.0	92.7	163	69.2	57.7	36.0																			
(WY)	1955	1955	1941	1967	1961	1961	1961	1953	1966	1961	1966	1954																			

SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1941 - 1971
ANNUAL MEAN	--	119
HIGHEST ANNUAL MEAN	--	160
LOWEST ANNUAL MEAN	--	77.3
HIGHEST DAILY MEAN	1910 Jun 16	1980 Jun 4 1968
LOWEST DAILY MEAN	27 Apr 10	13 Apr 10 1989#
ANNUAL SEVEN-DAY MINIMUM	--	20 Jan 28 1951
INSTANTANEOUS PEAK FLOW	2450 Jun 16	3020a Jun 24 1945#
INSTANTANEOUS PEAK STAGE	6.67 Jun 16	7.49 Jun 24 1945#
ANNUAL RUNOFF (AC-FT)	--	85900
10 PERCENT EXCEEDS	--	288
50 PERCENT EXCEEDS	--	50
90 PERCENT EXCEEDS	--	33

* During Period of operation.

For period of record through 1995.

a From rating curve extended above 1,600 ft³/s.

LOCATION.--Lat 44°45'31", long 108°10'51", in NW¼ NE¼ SW¼ sec.9, T.55 N., R.94 W., Big Horn County, Hydrologic Unit 10080010, on right bank 180 ft upstream from Bighorn Canyon National Recreation Area boundary, 0.5 mi upstream from normal high-water line of Bighorn Lake at elevation 3,660 ft, 1.3 mi upstream from Five Springs Creek, and 5.9 mi south of Kane.

WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Elevation of gage is 3,660 ft above sea level, from topographic map. Aug. 29, 1928, to Apr. 25, 1932, nonrecording gage, and Apr. 25, 1932, to May 16, 1956, water-stage recorder at site 12.5 mi downstream at different datum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1923, 14.8 ft, Sept. 30, 1923, site and datum in use April 1932 to May 1956.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	871	1190	1000	920	960	1880	953	1110	3600	8970	3620	1780
2	903	1170	980	900	1000	1370	955	1080	3860	8960	3240	1850
3	956	1170	960	860	1000	1160	939	1010	4870	9230	3120	1920
4	1220	1160	940	800	990	1210	932	1000	7480	9510	3140	2050
5	1350	1160	930	750	980	1270	919	988	8710	9220	3160	2210
6	1250	1120	920	760	980	1090	908	1030	9370	8850	3190	2150
7	1220	1110	920	780	980	1000	918	1170	10900	8910	3160	2050
8	1230	1110	930	800	980	1130	932	1280	10000	9530	2900	2170
9	1200	1100	940	830	980	1230	943	1400	9710	9640	2340	2820
10	1180	1090	940	850	970	1400	984	1700	10100	9430	1930	2970
11	1170	1100	940	900	930	1500	951	2450	9250	9180	1990	2620
12	1300	1100	940	880	920	1600	931	3060	8680	9570	1990	2500
13	1300	1110	950	880	900	2000	872	3830	9880	10500	1950	2390
14	1320	1110	950	900	900	1800	905	4230	12600	10600	1910	1960
15	1300	1090	960	900	900	1310	922	4440	13900	10100	1850	1730
16	1210	1070	960	890	970	1210	959	3940	14900	10200	1780	1690
17	1510	1090	960	880	980	1220	963	3770	15100	10400	1730	1670
18	1800	1120	970	870	1080	1210	923	3720	13400	10000	1670	1680
19	1740	1100	970	850	1180	1140	886	3830	10900	8840	1700	1750
20	1720	1090	980	830	1300	1080	919	3920	10200	8870	1820	2130
21	1510	1070	980	820	1360	1040	886	3900	11200	8570	1820	3020
22	1330	1050	990	820	2120	1030	894	3970	11700	7900	1780	2640
23	1300	1040	990	808	2760	1020	925	4280	11400	7940	1730	2430
24	1290	1030	1000	800	2580	1020	927	4490	10100	7690	1730	2320
25	1280	1020	1020	810	2370	1050	882	4030	9520	7310	1820	2290
26	1270	1000	1020	820	2200	1020	918	3800	9590	6320	1870	2270
27	1260	980	1040	840	2100	997	1040	3790	9830	5990	1890	2250
28	1250	960	1050	860	1980	965	961	3780	10700	5590	1920	2210
29	1240	940	1070	890	---	953	921	3760	11000	4570	1830	2150
30	1220	960	1000	920	---	945	1020	3610	9690	3820	1740	3080
31	1200	---	960	920	---	946	---	3450	---	3690	1720	---
TOTAL	39900	32410	30160	26338	37350	37796	27988	91818	302140	259900	68040	66750
MEAN	1287	1080	973	850	1334	1219	933	2962	10070	8384	2195	2225
MAX	1800	1190	1070	920	2760	2000	1040	4490	15100	10600	3620	3080
MIN	871	940	920	750	900	945	872	988	3600			

MEAN	1801	1682	1456	1360	1534	1800	1797	3197	5913	3177	1427	1515
MAX	3994	2871	2506	2871	3164	3171	3454	7505	14680	11650	6388	3673
(WY)	1983	1984	1983	1972	1983	1972	1943	1947	1944	1967	1930	1973
MIN	524	737	627	580	550	740	696	1005	1032	501	305	386
(WY)	1936	1961	1961	1937	1933	1989	1961	1960	1934	1961	1940	1934

WATER YEARS 1930 - 1995*

[illegible]

* August 1928 to September 1929 not used in computations, monthly discharge only for selected months.
a Site and datum then in use.

YELLOWSTONE RIVER BASIN

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06279500 BIGHORN RIVER AT KANE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)
OCT					
24...	1125	1290	1040	7.0	10.0
NOV					
09...	1540	1240	1490	4.5	7.0
DEC					
06...	1115	920	1820	0.0	0.0
JAN					
23...	1220	808	1850	0.0	0.0
FEB					
22...	1150	2110	1040	2.5	7.0
APR					
05...	1150	927	1290	12.0	16.0
MAY					
15...	1630	4470	806	12.5	24.5
JUN					
06...	1025	8990	530	12.0	12.0
JUL					
17...	1320	10400	544	21.0	42.0
AUG					
16...	0905	1720	772	20.5	16.5

YELLOWSTONE RIVER BASIN

06279940 NORTH FORK SHOSHONE RIVER AT WAPITI, WY

LOCATION.--Lat 44°28'10", long 109°25'49", in SE¹/₄ NW¹/₄ NW¹/₄ sec.19, T.52 N., R.104 W., Park County, Hydrologic Unit 10080012, on left bank 1,000 ft downstream from bridge on U.S. Highway 14-20, 0.3 mi upstream from Jim Creek, and 0.3 mi downstream from Wapiti.

DRAINAGE AREA.--699 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 5,580 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 14, 15, 20, 21, Dec. 3-5, Dec. 13 to Jan. 24, Jan. 29, Feb. 9, 10, 13-17, 27, 28, and Mar. 3-6. Records good except for those greater than 2,500 ft³/s, which are fair and those for estimated daily discharges, which are poor. Diversion for irrigation of about 1,500 acres upstream from station. U.S. Bureau of Reclamation satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 9, 1981, at station 06280000 North Fork Shoshone River near Wapiti, 4.2 mi downstream, reached a discharge of 20,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 6	0800	*7,110	*8.49	June 27	0115	5,290	7.02
June 14	2400	6,680	7.75				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	191	171	100	162	198	254	350	2930	3420	1250	418
2	174	191	166	90	175	194	267	412	3470	3420	1190	403
3	203	188	165	88	173	210	285	546	4480	4080	1140	395
4	198	168	170	86	150	220	307	585	3980	3830	1100	426
5	215	193	165	94	156	215	339	704	4300	3490	1020	417
6	270	174	159	105	158	210	318	1140	5210	3680	993	393
7	232	171	157	115	159	196	360	982	3560	4060	969	383
8	219	167	129	130	154	199	349	992	2780	4360	1220	436
9	214	160	127	145	155	219	284	896	2310	4290	928	406
10	214	169	126	160	160	226	287	1090	2000	4180	822	365
11	211	164	106	150	120	253	275	1290	2170	4380	863	349
12	216	162	114	145	92	258	278	1380	3320	4070	806	338
13	219	163	120	140	100	248	287	1160	4660	3710	721	324
14	219	160	115	145	105	246	377	996	5540	3440	651	316
15	253	150	120	150	120	249	290	1380	5690	3140	621	301
16	250	159	130	140	150	263	278	2150	5840	2860	618	298
17	251	154	140	130	170	266	273	2240	5410	2670	619	293
18	256	142	150	120	165	268	275	2060	4680	2660	625	296
19	259	127	160	126	172	269	288	2120	4080	2730	579	343
20	233	130	155	120	195	270	298	2320	3710	2540	542	407
21	231	140	150	120	202	270	310	2430	3620	2420	529	341
22	237	123	155	125	201	270	313	2290	3520	2320	526	324
23	224	112	145	130	203	261	327	1560	3060	2200	529	310
24	220	150	150	125	211	265	319	1440	3090	2040	555	291
25	219	174	155	121	224	259	352	1250	3570	2000	574	281
26	217	145	150	130	230	257	337	1170	4140	1840	606	281
27	211	140	160	136	230	255	364	1090	4640	1770	521	274
28	220	134	160	132	220	267	410	1060	4500	1780	482	273
29	207	147	160	130	---	255	381	1290	3670	1690	455	286
30	191	157	140	127	---	257	372	1830	3400	1700	447	332
31	189	---	115	138	---	257	---	2370	---	1410	429	---
TOTAL	6847	4705	4485	3893	4716	7550	9454	42573	117330	92180	22930	10300
MEAN	221	157	145	126	168	244	315	1373	3911	2974	740	343
MAX	270	193	171	160	230	270	410	2430	5840	4380	1250	436
MIN	174	112	106	86	92	194	254	350	2000	1410	429	273
AC-FT	13580	9330	8900	7720	9350	14980	18750	84440	232700	182800	45480	20430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995
MEAN	247	192	147	133	141	195
MAX	297	236	159	149	168	244
(WY)	1991	1991	1990	1990	1995	1990
MIN	221	157	139	121	123	144
(WY)	1995	1995	1993	1992	1994	1991

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1990 - 1995
ANNUAL TOTAL	200142	326963	---
ANNUAL MEAN	548	896	767
HIGHEST ANNUAL MEAN	---	---	934
LOWEST ANNUAL MEAN	---	---	551
HIGHEST DAILY MEAN	4060	May 13	7550
LOWEST DAILY MEAN	106	Dec 11	86
ANNUAL SEVEN-DAY MINIMUM	116	Feb 7	97
INSTANTANEOUS PEAK FLOW	---	7110	9460
INSTANTANEOUS PEAK STAGE	---	8.49	9.54
ANNUAL RUNOFF (AC-FT)	397000	648500	555600
10 PERCENT EXCEEDS	1770	3350	2400
50 PERCENT EXCEEDS	202	270	254
90 PERCENT EXCEEDS	128	130	130

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LOCATION.--Lat 44°12'30", long 109°33'15", in NE¹/₄ NE¹/₄ sec.24, T.49 N., R.106 W., Park County, Hydrologic Unit 10080013, Shoshone National Forest, on left bridge abutment of U.S. Forest Service bridge, 0.4 mi downstream from Boulder Creek, 3.2 mi northeast of Valley, and 34 mi southwest of Cody.

GAGE.--Water-stage recorder. Elevation of gage is 6,200 ft above sea level, from topographic map. Prior to Nov. 22, 1961, at site 75 ft upstream at same datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	110	86	55	78	76	72	105	1110	1730	835	228
2	108	110	86	53	81	71	75	116	1290	1740	810	224
3	118	102	80	52	66	84	79	124	2140	2080	786	222
4	121	85	79	51	74	80	85	124	1700	1660	775	232
5	138	84	77	51	74	78	105	151	2040	1550	713	240
6	163	91	79	53	75	73	99	173	2600	1790	708	226
7	149	100	73	59	74	70	101	180	1450	2390	696	232
8	134	100	59	65	73	73	100	177	1080	2670	720	323
9	131	97	65	71	69	83	88	172	888	2910	563	248
10	126	106	58	76	69	87	85	227	806	2960	516	225
11	124	105	55	75	61	93	82	332	999	3280	894	214
12	123	107	59	73	57	97	84	361	1780	3270	645	205
13	121	103	71	73	58	87	87	290	2580	2670	525	202
14	121	89	68	72	55	84	109	256	3150	2150	431	196
15	131	83	63	73	59	86	93	418	3280	1970	366	191
16	140	91	68	72	55	89	94	711	2890	1900	374	190
17	153	79	81	65	55	85	92	703	2390	1670	384	187
18	157	71	81	62	60	88	89	624	1920	1710	378	187
19	142	60	78	64	66	90	90	621	1690	1720	328	203
20	136	63	75	61	75	85	91	686	1630	1720	299	265
21	129	67	73	53	80	88	95	746	1650	1600	292	232
22	122	56	73	53	81	87	95	707	1670	1570	281	224
23	117	52	74	52	83	81	98	474	1410	1400	314	209
24	118	52	77	51	87	85	94	376	1490	1320	463	194
25	116	55	77	54	93	79	101	318	1750	1300	380	193
26	118	61	75	65	97	79	101	291	2170	1230	327	185
27	118	60	76	70	92	78	100	282	2440	1200	301	183
28	126	59	76	70	83	78	111	300	2180	1210	275	178
29	113	60	76	60	---	75	113	367	1680	1190	259	191
30	103	69	67	56	---	73	110	601	1600	1200	248	216
31	105	---	58	70	---	73	---	921	---	961	234	---
TOTAL	3926	2427	2243	1930	2030	2535	2818	11934	55453	57721	15120	6445
MEAN	127	80.9	72.4	62.3	72.5	81.8	93.9	385	1848	1862	488	215
MAX	163	110	86	76	97	97	113	921	3280	3280	894	323
MIN	103	52	55	51	55	70	72	105	806	961	234	178
AC-FT	7790	4810	4450	3830	4030	5030	5590	23670	110000	114500	29990	12780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1995, BY WATER YEAR (WY)

MEAN	154	106	82.8	75.5	71.9	77.6	162	735	1722	1113	374	210
MAX	244	147	109	94.9	93.7	128	341	1387	2910	2287	834	341
(WY)	1983	1985	1966	1983	1962	1986	1962	1958	1974	1975	1982	1982
MIN	92.5	70.6	56.2	55.2	54.8	59.8	69.6	252	856	308	156	110
(WY)	1989	1980	1989	1989	1989	1975	1970	1977	1994	1988	1988	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1957 - 1995
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ANNUAL TOTAL	92730		164582		--	
ANNUAL MEAN	254		451		408	
HIGHEST ANNUAL MEAN	--		--		583	1965
LOWEST ANNUAL MEAN	--		--		221	1977
HIGHEST DAILY MEAN	1690	May 13	3280	Jun 15	6100	Jun 9 1981
LOWEST DAILY MEAN	52	Nov 23	51	Jan 4, 5, 24	35	Dec 20 1990
ANNUAL SEVEN-DAY MINIMUM	56	Nov 22	53	Dec 31	40	Dec 18 1990
INSTANTANEOUS PEAK FLOW	--		4810	Jun 14	10000	Jun 9 1981
INSTANTANEOUS PEAK STAGE	--		7.94	Jun 14	9.24a	Jun 9 1981
ANNUAL RUNOFF (AC-FT)	183900		326400		295700	
10 PERCENT EXCEEDS	746		1660		1240	
50 PERCENT EXCEEDS	111		110		136	
90 PERCENT EXCEEDS	65		61		67	

a From floodmarks.

06281700 SHOSHONE RIVER ABOVE DEMARIS SPRINGS, NEAR CODY, WY

LOCATION.--Lat 44°30'39", long 109°08'47", in NW¹/₄ SE¹/₄ sec.5, T.52 N., R.102 W, Park County, Hydrologic Unit 10080014, at bridge on State Highway 16, 1.9 mi downstream from Buffalo Bill Reservoir, and 3.8 mi west of Cody city limits.

PERIOD OF RECORD.--October 1987 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL AS CACO3) (00900)
OCT											
26...	1520	102	252	7.9	11.0	17.0	631	13	10.0	110	86
NOV											
10...	1145	90	287	7.7	7.0	8.0	630	3.6	10.2	102	110
DEC											
12...	1120	96	427	7.8	2.0	-1.0	635	1.4	11.6	101	180
JAN											
18...	1200	133	376	7.3	2.0	0.0	631	1.5	11.5	101	150
MAR											
29...	1440	100	423	7.9	5.5	5.0	638	0.80	12.9	123	170
APR											
25...	1115	870	264	7.9	5.0	2.0	630	0.60	11.0	104	88
JUN											
21...	1630	1260	152	7.9	10.0	17.0	635	24	9.7	103	46
JUL											
13...	1150	6200	126	8.1	12.0	21.5	640	17	10.8	120	39
AUG											
18...	0730	1110	114	7.8	11.0	12.0	638	11	9.2	100	38
SEP											
28...	1520	530	144	7.9	14.0	23.0	630	7.5	9.2	108	49

E - Estimate.

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)
OCT										
26...	25	5.8	17	0.8	1.5	92	34	1.1	0.2	13
NOV										
10...	31	7.2	18	0.8	1.8	105	40	1.5	0.2	13
DEC										
12...	53	12	22	0.7	3.5	159	68	3.6	0.2	14
JAN										
18...	43	9.9	23	0.8	2.6	134	63	2.7	0.2	15
MAR										
29...	50	12	22	0.7	3.0	153	62	3.2	0.3	13
APR										
25...	25	6.1	20	0.9	1.4	95	39	1.6	0.2	13
JUN										
21...	13	3.3	12	0.8	0.80	58	16	0.80	0.1	15
JUL										
13...	11	2.7	9.3	0.7	0.80	50	13	0.50	<0.1	15
AUG										
18...	11	2.6	8.2	0.6	0.80	47	11	0.60	0.1	16
SEP										
28...	14	3.3	9.6	0.6	1.0	56	15	0.50	0.1	15

YELLOWSTONE RIVER BASIN

06281700 SHOSHONE RIVER ABOVE DEMARIS SPRINGS, NEAR CODY, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 26...	--	<0.01	0.08	0.02	<0.2	0.05	0.03	0.02	--	--
NOV 10...	179	<0.01	0.07	<0.02	<0.2	0.03	0.02	0.02	20	33
DEC 12...	277	0.01	0.11	0.04	<0.2	0.03	0.03	0.01	7	64
JAN 18...	242	<0.01	0.08	0.05	<0.2	0.02	<0.01	0.01	18	85
MAR 29...	256	<0.01	<0.05	<0.02	<0.2	<0.01	<0.01	<0.01	8	42
APR 25...	168	<0.01	<0.05	<0.02	<0.2	0.02	0.01	0.01	7	8
JUN 21...	101	<0.01	0.07	0.03	<0.2	0.08	0.04	0.05	91	2
JUL 13...	85	<0.01	<0.05	0.02	<0.2	0.06	0.04	0.04	7	<1
AUG 18...	79	<0.01	0.10	<0.02	<0.2	0.08	0.06	0.05	78	3
SEP 28...	94	<0.01	0.05	<0.02	<0.2	0.06	0.04	0.04	64	10

LOCATION.--Lat 44°31'00", long 109°05'50", in lot 71, NE1/4 sec.3, T.52 N., R.102 W., Park County, Hydrologic Unit 10080014, on left bank 0.5 mi downstream from Trail Creek, 1.0 mi west of Cody city limits, and 5.5 mi downstream from Buffalo Bill Reservoir.

PERIOD OF RECORD.--January 1921 to current year. Prior to October 1944, no

PERIOD OF RECORD.--January 1921 to current year. Prior to October 1944, published as below Shoshone Reservoir.
GAGE.--Water-stage recorder. Elevation of gage is 4.900 ft above sea level, from topographic map. Prior to Oct. 1,

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Buffalo Bill Reservoir. (See

REMARKS:-- No estimated daily discharges. Records good. Flow completely regulated by Buffalo Bill Reservoir. (See station 06281500.) Diversions upstream from station for irrigation of about 56,100 acres, of which about

U.S. Bureau of Reclamation satellite telemeter at station.

EXTRIMES OUTSIDE PERIOD OF RECORD.--Maximum flood since construction of Buffalo Bill Reservoir in 1905, 18,700 ft³/s, June 15, 1918, by computation of flow over dam.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	576	167	166	224	251	185	162	1020	1240	1230	1230	1110
2	590	165	167	226	252	181	163	978	1230	1200	1230	1120
3	549	165	167	226	249	180	164	978	1210	1190	1240	1120
4	509	164	167	233	247	180	164	958	1220	1180	1250	1120
5	514	164	168	249	248	180	163	973	1240	1170	1250	1070
6	470	163	169	250	248	180	158	967	1270	1160	1250	1030
7	431	163	169	252	246	182	160	967	1310	1280	1230	1030
8	409	162	168	252	242	181	164	971	1380	1400	1220	1020
9	407	162	170	255	203	181	165	959	1370	1440	1170	986
10	326	163	170	256	193	180	165	925	1230	3090	1140	994
11	318	164	170	256	192	181	167	912	1190	5850	1160	978
12	224	165	171	258	191	181	259	830	1180	6240	1160	886
13	157	164	171	258	189	180	409	706	1190	6260	1140	842
14	160	163	171	260	188	178	469	660	1200	6310	1160	815
15	161	164	170	261	187	176	389	664	1200	6010	1140	797
16	165	165	172	263	186	175	420	676	1170	5390	1150	790
17	161	166	172	261	194	167	720	680	1170	3970	1170	800
18	152	166	173	262	200	161	810	679	1180	1700	1170	801
19	151	166	174	264	191	161	759	660	1200	1420	1180	790
20	151	166	174	264	191	162	758	602	1200	1370	1200	799
21	158	165	176	264	191	161	829	623	1250	1360	1190	802
22	159	165	178	263	192	166	876	723	1270	1250	1140	775
23	160	166	180	262	187	164	913	721	1260	1160	1140	720
24	167	167	180	261	185	161	939	722	1260	1160	1140	649
25	160	167	181	259	186	160	946	723	1280	1250	1150	597
26	168	165	182	254	187	160	1020	770	1250	1280	1160	601
27	164	166	182	247	185	163	1050	815	1250	1220	1140	601
28	164	165	185	244	185	163	1050	820	1240	1210	1120	596
29	166	165	217	245	---	162	1040	834	1240	1220	1110	585
30	164	165	223	245	---	162	1040	978	1230	1220	1110	576
31	164	---	224	247	---	162	---	1130	---	1230	1110	---
TOTAL	8375	4943	5507	7821	5786	5316	16491	25624	37110	72420	36350	25400
MEAN	270	165	178	252	207	171	550	827	1237	2336	1173	847
MAX	590	167	224	264	252	185	1050	1130	1380	6310	1250	1120
MIN	151	162	166	224	185	160	158	602	1170	1160	1110	576
AC-FT	16610	9800	10920	15510	11480	10540	32710	50830	73610	143600	72100	50380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1955, BY WATER YEAR (WY)												
MEAN	692	528	529	499	485	489	774	1405	2445	2602	1319	935
MAX	1198	966	944	894	893	866	1743	2958	6440	6556	3397	2113
(WY)	1953	1952	1951	1952	1973	1973	1976	1951	1943	1943	1958	1958
MIN	187	128	111	115	65.4	72.5	113	827	807	1017	685	582
(WY)	1989	1989	1989	1989	1959	1959	1959	1995	1992	1993	1977	1988

* Period following Heart Mountain Diversion. See REMARKS.

For period of record through 1995.

a Average discharge (water years 1922-1942) prior to Heart Mountain Diversion, 1,256 ft³/s.

YELLOWSTONE RIVER BASIN

06284500 BITTER CREEK NEAR GARLAND, WY

LOCATION.--Lat 44°45'13", long 108°35'29", in SW¹/₄ SW¹/₄ SW¹/₄ sec.7, T.55 N., R.97 W., Big Horn County, Hydrologic Unit 10080014, 100 ft downstream from bridge on county road, 1.0 mi upstream from mouth, 4.0 mi southeast of Garland, and 5.0 mi southwest of Byron.

DRAINAGE AREA.--80.5 mi².

PERIOD OF RECORD.--Water years 1951-53, 1958-61, 1969 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1969 to September 1983.

WATER TEMPERATURES: July 1969 to September 1983.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)
OCT 27...	0920	50	1250	8.5	8.0	12.0	652
MAR 29...	0940	19	1530	8.6	1.0	0.0	662
JUN 22...	0915	354	608	8.3	14.0	18.0	660
SEP 29...	0845	322	735	8.3	11.0	10.0	653
DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 27...	11.4	113	320	0.02	5.0	<0.02	<0.01
MAR 29...	14.4	117	K20	0.04	4.6	0.04	0.02
JUN 22...	9.2	103	800	0.03	2.7	0.06	0.11
SEP 29...	9.2	98	250	<0.01	1.8	<0.02	0.04

K-Results based on colony count outside the acceptable range (non-ideal count).

YELLOWSTONE RIVER BASIN

99

06285100 SHOSHONE RIVER NEAR LOVELL, WY

LOCATION.--Lat 44°50'19", long 108°26'04", in NW¹/₄ NE¹/₄ NE¹/₄ sec.17, T.56 N., R.96 W., Big Horn County, Hydrologic Unit 10080014, on left bank 20 ft upstream from bridge on County Road 9 and 1.5 mi west of Lovell.

DRAINAGE AREA.--2,350 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,850 ft above sea level, from topographic map. Prior to Oct. 1, 1976, at site 500 ft downstream, at datum 2.00 ft higher. Oct. 1, 1976 to Sept. 30, 1980, at site 500 ft downstream, at datum 1.00 ft higher. Oct. 1, 1981 to Nov. 13, 1986, at site 500 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Nov. 18 to Jan. 26, Feb. 1-3, 10-22, Feb. 28 to Apr. 5, and July 13, 15, 16. Records fair except those for estimated daily discharges, which are poor. Flow regulated by Buffalo Bill Reservoir. (See station 06281500.) Natural flow of stream affected by storage reservoirs, power development, diversions upstream from station for irrigation of about 143,000 acres, of which about 8,000 acres are downstream from station, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	547	410	330	320	380	300	200	613	230	679	520	534
2	628	408	350	310	400	290	200	522	222	698	460	608
3	1010	408	360	290	420	300	210	426	160	702	488	726
4	906	396	350	290	380	310	220	389	156	736	470	762
5	861	383	350	280	375	320	210	382	157	789	561	734
6	863	379	340	300	370	320	199	529	134	736	696	519
7	754	408	333	330	367	320	150	540	158	759	760	510
8	672	441	330	350	363	310	126	540	647	834	639	644
9	625	438	310	380	346	290	141	596	956	795	605	992
10	604	442	310	380	320	280	135	493	1160	1040	518	942
11	568	444	300	390	310	280	116	497	907	3320	533	989
12	566	444	290	400	300	265	76	1260	945	4540	536	935
13	549	451	280	400	300	260	105	746	931	5010	617	755
14	490	431	270	420	300	260	432	629	809	5780	662	741
15	480	411	270	420	310	280	422	704	675	6680	603	649
16	579	423	270	420	340	280	337	486	531	6340	501	628
17	683	425	270	420	350	280	331	389	390	5170	536	652
18	615	430	270	410	370	265	612	388	364	2280	515	634
19	532	410	270	400	390	260	728	379	343	1070	564	621
20	493	390	280	400	400	260	576	340	254	1300	655	1060
21	479	370	280	385	390	260	545	302	277	1440	684	1060
22	469	360	290	370	353	250	517	288	419	1350	532	1060
23	477	340	290	353	323	200	441	339	497	1230	490	1060
24	466	340	290	360	307	100	365	333	597	1170	542	999
25	505	350	300	350	300	110	248	336	661	1080	493	826
26	482	350	310	350	300	120	391	331	738	960	782	695
27	456	360	310	372	286	120	358	364	690	719	774	639
28	446	340	310	379	300	140	356	406	690	602	661	577
29	446	320	310	367	---	160	471	377	706	567	529	584
30	423	320	320	362	---	170	659	272	732	559	511	1670
31	414	---	330	371	---	180	---	278	---	603	512	---
TOTAL	18088	11822	9473	11329	9650	7540	9877	14474	16136	59538	17949	23805
MEAN	583	394	306	365	345	243	329	467	538	1921	579	793
MAX	1010	451	360	420	420	320	728	1260	1160	6680	782	1670
MIN	414	320	270	280	286	100	76	272	134	559	460	510
AC-FT	35880	23450	18790	22470	19140	14960	19590	28710	32010	118100	35600	47220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1995, BY WATER YEAR (WY)

	MEAN	771	711	650	593	599	617	675	784	1819	1789	743	770
MAX	1251	1146	1168	1065	1139	1133	1877	1909	4935	4686	1305	1354	
(WY)	1972	1969	1969	1973	1973	1973	1976	1975	1981	1982	1982	1991	
MIN	369	297	306	226	228	243	248	193	203	149	207	245	
(WY)	1989	1986	1995	1991	1989	1995	1981	1977	1977	1977	1977	1977	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1967 - 1995
ANNUAL TOTAL	192085	209681	--
ANNUAL MEAN	526	574	878
HIGHEST ANNUAL MEAN	--	--	1313
LOWEST ANNUAL MEAN	--	--	359
HIGHEST DAILY MEAN	1220	Jul 7	15200
LOWEST DAILY MEAN	200	Jul 1	27
ANNUAL SEVEN-DAY MINIMUM	244	Jun 30	48
INSTANTANEOUS PEAK FLOW	--	8100	16400a
INSTANTANEOUS PEAK STAGE	--	9.20	10.09b
ANNUAL RUNOFF (AC-FT)	381000	415900	635800
10 PERCENT EXCEEDS	679	862	1380
50 PERCENT EXCEEDS	537	410	660
90 PERCENT EXCEEDS	320	260	320

a Gage height, 9.16 ft, site then in use, at present datum.
b backwater from ice, site then in use, at present datum.

YELLOWSTONE RIVER BASIN

06285100 SHOSHONE RIVER NEAR LOVELL, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1966 to September 1983.

WATER TEMPERATURES: October 1966 to September 1983

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)
OCT					
24...	1520	442	1220	9.0	18.5
NOV					
09...	1640	438	1560	5.0	10.0
DEC					
07...	1105	333	1990	0.0	0.0
JAN					
23...	1410	353	1860	0.0	-0.5
FEB					
22...	1450	353	1370	2.0	13.0
APR					
06...	0935	212	1500	10.0	11.0
MAY					
16...	1005	539	906	13.0	20.0
JUL					
10...	1305	1020	498	21.0	35.0
17...	1425	5070	296	16.5	34.5
AUG					
16...	1245	576	659	19.0	40.0

YELLOWSTONE RIVER BASIN

101

06286400 BIGHORN LAKE NEAR ST. XAVIER, MT

LOCATION.--Lat 45°18'27", long 107°57'26", in SW¹/₄ SE¹/₄ sec.18, T.6 S., R.30 E., Big Horn County, Hydrologic Unit 10080010, in block 13 of Yellowtail Dam on Bighorn River, 1.3 mi upstream from Grapevine Creek, 15.5 mi southwest of St. Xavier, and at river mile 86.6.

DRAINAGE AREA.--19,626 mi².

PERIOD OF RECORD.--November 1965 to current year (monthend contents only). Prior to October 1969, published as "Yellowtail Reservoir." Records of daily elevations and contents on file in Helena district office.

GAGE.--Water-stage recorder in powerhouse control room. Datum of gage is referenced to sea level (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by thin concrete-arch dam; construction began in 1961; completed in 1967. Storage began Nov. 3, 1965. Usable capacity, 1,312,000 acre-ft, between elevation 3,296.50 ft, river outlet invert, and 3,657.00 ft, top of flood control. Elevation of spillway crest, 3,593.00 ft. Normal maximum operating level, 1,097,000 acre-ft, elevation, 3,640.00 ft. Minimum operating level, 483,400 acre-ft, elevation, 3,547.00 ft. Dead storage, 16,010 acre-ft, below elevation 3,296.50 ft. Figures given herein represent usable contents. Water is used for power production, flood control, irrigation, and recreation.

COOPERATION.--Elevations and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,346,000 acre-ft, July 6, 1967, elevation, 3,656.43 ft; minimum since first filling, 641,900 acre-ft, Apr. 14, 1989, elevation 3,583.30 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,140,000 acre-ft, July 17, elevation, 3,646.30 ft; minimum, 775,600 acre-ft, Oct. 1, elevation, 3,608.13 ft.

MONTHEND GAGE HEIGHT AND CONTENTS AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Gage height (feet)	Contents (acre-feet)	Change in Contents (acre-feet)
Sept 30	3,608.06	775,200	---
Oct. 31	3,616.38	830,500	+55,300
Nov. 30	3,617.96	842,100	+11,600
Dec. 31	3,614.63	818,100	-24,000
CAL YR 1994			-65,100
Jan. 31	3,610.87	792,800	-25,300
Feb. 28	3,611.46	796,600	+3,800
Mar. 31	3,611.61	798,000	+1,400
Apr. 30	3,610.46	790,100	-7,900
May 31	3,613.43	810,000	+19,900
June 30	3,640.16	1,056,000	+246,000
July 31	3,641.37	1,072,000	+16,000
Aug. 31	3,638.51	1,036,000	-36,000
Sept 30	3,636.72	1,014,000	-22,000
WTR YR 1995			+238,800

YELLOWSTONE RIVER BASIN

06287000 BIGHORN RIVER NEAR ST. XAVIER, MT

LOCATION.--Lat 45°19'00", long 107°55'05", in NW¹/₄ NW¹/₄ NE¹/₄ sec.16, T.6 S., R.31 E., Big Horn County, Hydrologic Unit 10080015, on right bank 800 ft downstream from Yellowtail afterbay dam, 1,500 ft downstream from Lime Kiln Creek, 14 mi southwest of St. Xavier, and at river mile 83.9.

DRAINAGE AREA.--19,667 mi². Area at site used prior to Apr. 16, 1963, 19,626 mi².

PERIOD OF RECORD.--October 1934 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,158.38 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Apr. 16, 1963, and June 13, 1964, to Mar. 31, 1965, water-stage recorder at site 1.2 mi upstream at different datum. Apr. 1, 1965, to July 31, 1966, water-stage recorder at site 1,300 ft downstream at present datum.

REMARKS.--Records fair. Figures of discharge given herein are sum of river flow and flow of Bighorn Canal. Some regulation by 14 reservoirs in Wyoming with combined capacity of 1,400,000 acre-ft and complete regulation by Bighorn Lake (see preceding page) since Nov. 3, 1965. Diversions for irrigation of about 375,000 acres upstream from station. Bureau of Reclamation satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1690	1520	1510	2050	1750	1820	1650	1650	4620	8240	5910	2930
2	1680	1520	1670	2060	1670	1830	1650	1650	4640	8240	5200	2910
3	1660	1510	1680	1990	1670	1840	1660	1670	4630	8220	4630	2920
4	1660	1510	1670	1720	1670	1840	1660	1670	4620	8230	4210	2940
5	1650	1510	1690	1750	1680	1840	1650	1660	4740	8220	4170	3030
6	1650	1520	1700	1740	1680	1850	1660	1660	5750	8220	4130	3060
7	1650	1520	1720	1760	1680	1850	1660	1660	6900	8230	4080	3050
8	1640	1510	1740	1760	1690	1820	1660	1710	7250	8240	4020	3120
9	1630	1520	1750	1770	1690	1640	1660	2010	7790	8260	3970	3460
10	1630	1520	1750	1760	1700	1650	1660	2010	7800	9140	3930	3480
11	1600	1520	1760	1680	1710	1650	1660	2100	7800	11200	3850	3530
12	1550	1510	1770	1690	1720	1650	1660	2860	7820	12400	3860	4010
13	1480	1510	1780	1710	1720	1650	1660	4040	7810	13100	3760	4480
14	1410	1500	1810	1700	1730	1660	1660	4970	7730	13100	3740	4950
15	1380	1500	1820	1720	1730	1650	1660	5090	7800	14300	3670	4960
16	1380	1500	1840	1700	1740	1650	1660	5460	7780	14500	3620	4990
17	1490	1500	1840	1710	1750	1650	1660	6100	7740	14500	3580	5010
18	1520	1500	1860	1710	1760	1650	1660	6150	7740	14500	3510	5010
19	999	1490	1880	1710	1760	1650	1660	6180	7760	14500	3480	4990
20	1610	1490	1890	1730	1770	1660	1650	6160	7790	14100	3420	5000
21	1590	1480	1900	1730	1770	1650	1680	6170	7800	13000	3370	5000
22	1580	1480	1920	1730	1770	1660	1660	6080	7810	12600	3320	5010
23	1570	1480	1930	1740	1790	1650	1660	5580	7810	12600	3280	5000
24	1580	1480	1940	1740	1800	1650	1660	4730	7820	12300	3230	5010
25	1560	1470	1960	1750	1800	1650	1660	4610	7800	11500	3180	5020
26	1550	1470	1970	1750	1810	1660	1660	4630	7810	11100	3130	5010
27	1560	1470	1970	1760	1810	1660	1650	4620	8080	10300	3100	5010
28	1550	1470	1980	1760	1810	1650	1660	4620	8240	8520	3060	4900
29	1540	1460	2000	1770	---	1650	1660	4620	8260	8020	3020	4480
30	1540	1460	2010	1770	---	1650	1650	4600	8250	8010	2980	4490
31	1530	---	2040	1780	---	1650	---	4630	---	7270	2930	---
TOTAL	48109	44900	56750	54700	48630	52680	49760	121350	216190	334660	115340	126760
MEAN	1552	1497	1831	1765	1737	1699	1659	3915	7206	10800	3721	4225
MAX	1690	1520	2040	2060	1810	1850	1680	6180	8260	14500	5910	5020
MIN	999	1460	1510	1680	1670	1640	1650	1650	4620	7270	2930	2910
AC-FT	95420	89060	112600	108500	96460	104500	98700	240700	428800	663800	228800	251400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1995, BY WATER YEAR (WY)

	MEAN	2936	2940	2736	2574	2615	2859	2791	3853	7308	5651	2800	2702
MAX	5142	5151	4999	5267	4384	4809	6675	8744	17900	18890	6490	4544	
(WY)	1972	1983	1968	1968	1976	1976	1972	1947	1935	1967	1978	1973	
MIN	1224	856	1095	1090	888	327	678	900	1078	1144	1260	1074	
(WY)	1978	1966	1935	1935	1936	1966	1966	1966	1966	1960	1966	1966	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1935 - 1995
ANNUAL TOTAL	807279	1269829	--
ANNUAL MEAN	2212	3479	3482
HIGHEST ANNUAL MEAN	--	--	5059
LOWEST ANNUAL MEAN	--	--	1565
HIGHEST DAILY MEAN	6180	Jun 2	14500
LOWEST DAILY MEAN	999	Oct 19	999
ANNUAL SEVEN-DAY MINIMUM	1380	Oct 13	1380
INSTANTANEOUS PEAK FLOW	--	--	14600
INSTANTANEOUS LOW FLOW	--	--	49
ANNUAL RUNOFF (AC-FT)	1601000	2519000	2523000
10 PERCENT EXCEEDS	2980	7810	5760
50 PERCENT EXCEEDS	2150	1770	2840
90 PERCENT EXCEEDS	1510	1520	1550

YELLOWSTONE RIVER BASIN

103

06287000 BIGHORN RIVER NEAR ST. XAVIER, MT--Continued

SUMMARY STATISTICS	WATER YEARS 1935 - 1961*		WATER YEARS 1967 - 1995**	
ANNUAL MEAN	3426		3513	
HIGHEST ANNUAL MEAN	5059	1947	4697	1983
LOWEST ANNUAL MEAN	1706	1961	1868	1989
HIGHEST DAILY MEAN	37400	Jun 16 1935	24800	Jul 6 1967
LOWEST DAILY MEAN	300	Dec 20 1951	112	Apr 2 1967
ANNUAL SEVEN-DAY MINIMUM	656	Dec 25 1934	518	Mar 25 1970
INSTANTANEOUS PEAK FLOW	37400	Jun 16 1935	25300	Jul 5 1967
INSTANTANEOUS LOW FLOW	228	Dec 9 1937	112a	Apr 2 1967
ANNUAL RUNOFF (AC-FT)	2482000		2545000	
10 PERCENT EXCEEDS	6440		5360	
50 PERCENT EXCEEDS	2450		3170	
90 PERCENT EXCEEDS	1370		1850	

* Prior to construction of Yellowtail Dam.

** After completion of Yellowtail Dam.

a Result of discharge measurement (dam closure).

06288700 DRY FORK LITTLE BIGHORN RIVER BELOW LICK CREEK, NEAR BURGESS JUNCTION, WY

LOCATION.--Lat 44°53'19", long 107°36'54", in SE¹/₄ SE¹/₄ NW¹/₄ sec.28, T.57 N., R.89 W., Sheridan County, Hydrologic Unit 10080016, Bighorn National Forest, on left bank 0.3 mi downstream from Lick Creek, 4.9 mi upstream from mouth, and 9.2 mi northwest of Burgess Junction.

DRAINAGE AREA.--54.3 mi².

PERIOD OF RECORD.--October 1982 to September 1987, October 1992 to May 1995 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 6,070 ft above sea level, from topographic map. September 1987 to October 1987, at site 0.3 mi upstream at different datum, drainage area, 54.1 mi².

REMARKS.--Estimated daily discharges: Nov. 15 to Dec. 20, Jan. 1 to Feb. 16, and Feb. 26 to Apr. 26. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station. Result of discharge measurement, in cubic feet per second, made during the period when station was not in operation is given below:

Sept. 14 . . . 43.9

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Unknown	--	ice jam	*5.27	May 18	2200	159	3.74
May 9	1230	*193	3.91				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	29	27	22	23	17	18	24	---	---	---	---
2	30	29	27	21	23	18	18	25	---	---	---	---
3	28	28	27	21	23	19	18	25	---	---	---	---
4	29	26	25	21	23	19	19	26	---	---	---	---
5	30	29	26	22	23	18	21	26	---	---	---	---
6	34	28	25	22	22	18	21	28	---	---	---	---
7	31	28	26	22	22	18	23	31	---	---	---	---
8	31	28	25	23	22	18	25	52	---	---	---	---
9	30	27	23	23	22	19	23	150	---	---	---	---
10	30	29	23	23	21	20	22	126	---	---	---	---
11	30	29	25	23	20	21	22	111	---	---	---	---
12	30	29	24	22	19	23	23	117	---	---	---	---
13	29	29	23	22	19	22	25	117	---	---	---	---
14	29	24	23	22	19	22	28	104	---	---	---	---
15	30	23	23	23	20	22	25	101	---	---	---	---
16	29	25	22	23	21	22	24	116	---	---	---	---
17	30	26	23	22	21	22	23	134	---	---	---	---
18	31	23	24	21	20	23	22	148	---	---	---	---
19	31	23	24	22	20	22	21	153	---	---	---	---
20	30	27	24	22	20	22	22	146	---	---	---	---
21	31	26	23	22	20	23	22	151	---	---	---	---
22	29	24	24	21	20	22	22	154	---	---	---	---
23	28	26	23	22	19	22	21	138	---	---	---	---
24	28	27	23	23	20	22	20	123	---	---	---	---
25	27	28	23	23	20	21	19	113	---	---	---	---
26	28	27	23	23	20	20	20	105	---	---	---	---
27	31	25	23	23	19	19	22	100	---	---	---	---
28	30	25	23	22	18	19	25	96	---	---	---	---
29	26	25	23	22	---	19	24	99	---	---	---	---
30	26	26	23	22	---	19	24	112	---	---	---	---
31	27	---	23	23	---	19	---	137	---	---	---	---
TOTAL	910	798	743	688	579	630	662	3088	---	---	---	---
MEAN	29.4	26.6	24.0	22.2	20.7	20.3	22.1	99.6	---	---	---	---
MAX	34	29	27	23	23	23	28	154	---	---	---	---
MIN	26	23	22	21	18	17	18	24	---	---	---	---
AC-FT	1800	1580	1470	1360	1150	1250	1310	6130	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1995, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	29.6	26.2	24.0	22.4	20.3	19.4	27.9	90.3	126	63.1	40.4	32.0		
MAX	33.6	29.9	26.6	24.4	21.8	20.6	47.3	135	239	97.7	52.7	40.1		
(WY)	1985	1985	1985	1985	1985	1985	1994	1984	1984	1984	1984	1984		
MIN	23.3	21.9	21.8	19.8	18.4	17.5	21.8	54.5	48.6	35.9	29.2	24.8		
(WY)	1986	1986	1987	1987	1987	1987	1983	1985	1985	1985	1985	1985		

SUMMARY STATISTIC

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR*	WATER YEARS 1982 - 1995*
ANNUAL TOTAL	15757	---	---
ANNUAL MEAN	43.2	---	43.4
HIGHEST ANNUAL MEAN	---	---	60.6
LOWEST ANNUAL MEAN	---	---	31.3
HIGHEST DAILY MEAN	212 May 13	154 May 22	338 May 31 1984
LOWEST DAILY MEAN	16 Feb 26	17 Mar 1	11 Nov 10 1896#
ANNUAL SEVEN-DAY MINIMUM	18 Feb 2	---	16 Mar 23 1987
INSTANTANEOUS PEAK FLOW	---	193a May 9	429b Mar 31 1984#
INSTANTANEOUS PEAK STAGE	---	5.27c Unknown	5.27c Unknown 1985
ANNUAL RUNOFF (AC-FT)	31250	---	31470
10 PERCENT EXCEEDS	92	---	82
50 PERCENT EXCEEDS	29	---	27
90 PERCENT EXCEEDS	19	---	20

* During period of operation.

For period of record through 1995.

a Gage height, 3.91 ft.

b Gage height, 3.23 ft., site and datum then in use.

c Backwater from ice.

06289000 LITTLE BIGHORN RIVER AT STATE LINE, NEAR WYOLA, MT

LOCATION.--Lat 45°00'25", long 107°36'52", in SW¹/₄ NW¹/₄ sec.36, T.9 S., R.33 E., Bighorn County, Hydrologic Unit 10080016, on right bank 20 ft downstream from county bridge, 0.5 mi north of Wyoming-Montana State line, 1 mi downstream from West Fork, 13 mi southwest of Wyola, and at river mile 115.2.

DRAINAGE AREA.--193 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1939 to current year. Prior to October 1940, published as Little Horn River at State Line, near Wyola.

REVISED RECORDS.--WSP 1729: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,350 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Diversions for irrigation of 163 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	78	70	42	61	38	61	69	497	439	189	123
2	85	75	70	44	61	43	62	73	597	425	184	121
3	84	73	69	33	59	53	61	75	794	460	181	119
4	82	68	59	37	59	61	63	76	893	448	178	119
5	87	77	68	51	59	54	66	79	863	425	175	125
6	100	74	64	56	59	52	66	86	936	403	170	119
7	85	73	64	63	58	54	70	98	888	401	166	118
8	82	72	50	68	58	58	74	186	721	385	165	120
9	81	69	56	78	57	67	69	534	587	369	161	124
10	80	73	55	70	54	63	65	429	507	361	158	119
11	80	72	65	66	27	65	67	345	497	360	153	118
12	81	73	68	63	34	70	67	342	638	361	150	116
13	78	74	71	61	35	62	68	333	985	350	148	114
14	78	63	71	61	43	61	77	296	1080	335	143	114
15	85	65	69	61	52	62	71	297	997	321	140	113
16	86	72	66	62	62	68	72	334	1260	309	139	112
17	87	73	64	60	74	64	70	364	1200	296	137	111
18	87	58	63	59	69	63	69	380	1130	286	140	112
19	83	54	64	60	63	63	68	392	1010	284	135	118
20	79	71	61	58	62	61	69	378	921	274	133	118
21	81	71	60	52	61	63	69	394	883	265	132	113
22	79	58	60	45	59	66	68	396	800	257	130	112
23	75	75	60	47	58	62	69	354	704	249	129	113
24	75	73	60	50	58	64	67	330	644	238	129	110
25	74	73	60	60	58	63	71	312	616	233	130	109
26	75	73	60	68	59	60	66	296	592	224	135	109
27	78	70	60	64	58	60	67	291	565	216	127	109
28	80	68	60	63	48	60	72	287	540	210	125	109
29	69	66	60	60	---	57	70	305	494	204	123	117
30	67	70	60	61	---	60	71	346	459	200	125	128
31	74	---	42	61	---	62	---	422	---	195	124	---
TOTAL	2496	2104	1929	1784	1565	1859	2045	8899	23298	9783	4554	3482
MEAN	80.5	70.1	62.2	57.5	55.9	60.0	68.2	287	777	316	147	116
MAX	100	78	71	78	74	70	77	534	1260	460	189	128
MIN	67	54	42	33	27	38	61	69	459	195	123	109
AC-FT	4950	4170	3830	3540	3100	3690	4060	17650	46210	19400	9030	6910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

	MEAN	86.7	75.6	67.9	62.8	61.6	61.7	85.6	325	527	225	124	98.9
MAX	120	104	91.2	84.9	88.0	86.4	172	533	1125	689	228	151	
(WY)	1976	1942	1976	1946	1946	1946	1946	1977	1975	1975	1975	1975	
MIN	64.0	55.2	48.3	43.6	47.8	48.6	50.7	127	169	101	69.8	67.9	
(WY)	1961	1986	1990	1963	1990	1961	1961	1953	1985	1961	1961	1961	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1940 - 1995
ANNUAL TOTAL	48303	63798	--
ANNUAL MEAN	132	175	150
HIGHEST ANNUAL MEAN	--	--	253
LOWEST ANNUAL MEAN	--	--	90.3
HIGHEST DAILY MEAN	761	May 13	2340
LOWEST DAILY MEAN	42	Dec 31	18
ANNUAL SEVEN-DAY MINIMUM	54	Feb 5	27
INSTANTANEOUS PEAK FLOW	--	1530	Jun 16
INSTANTANEOUS PEAK STAGE	--	3.93	Jun 16
INSTANTANEOUS LOW FLOW	--	18	Feb 11
ANNUAL RUNOFF (AC-FT)	95810	126500	108900
10 PERCENT EXCEEDS	281	425	340
50 PERCENT EXCEEDS	80	75	83
90 PERCENT EXCEEDS	60	58	56

a Gage height, 4.87 ft, from rating curve extended above 1,400 ft³/s.

b Log jam.

YELLOWSTONE RIVER BASIN

06289000 LITTLE BIGHORN RIVER AT STATE LINE, NEAR WYOLA, MT--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Unpublished records for many days of instantaneous water temperature and specific conductance are available in files of the Montana District office.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)
NOV 29...	0945	61	351	-1.0	0.5	K12	K3	8.7
MAR 14...	0930	61	349	10.0	4.0	K2	K6	8.2
APR 24...	0955	65	350	12.0	4.0	K1	K3	8.5
JUN 20...	0850	900	283	17.0	6.0	K13	K26	8.7
JUL 25...	0845	236	332	12.0	11.5	K13	59	8.6
AUG 15...	0945	142	363	20.0	13.5	K4	40	8.6

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 29...	<0.01	0.21	<0.02	<0.01	28	4.6	69
MAR 14...	<0.01	0.15	<0.02	<0.01	23	3.8	57
APR 24...	<0.01	0.12	0.11	0.02	10	1.8	88
JUN 20...	--	--	--	--	55	134	96
JUL 25...	<0.01	0.09	0.04	0.01	43	27	72
AUG 15...	<0.01	0.10	0.02	<0.01	10	3.8	87

DATE	TIME	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00550)
JUN 20...	0850	150	41	11	0.9	0.0	0.6	152	--	--	--
AUG 15...	0945	180	46	15	1.3	0.0	0.8	171	6.8	0.5	0.1

06289000 LITTLE BIGHORN RIVER AT STATE LINE, NEAR WYOLA, MT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
JUN 20...	5.1	--	--	--	20	<0.5	<1	<5	<3	<10
AUG 15...	6.2	180	0.24	68.9	33	<0.5	<1	<5	<3	<10
DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
JUN 20...	20	<10	6	2	<10	<10	<1	48	<6	7
AUG 15...	<3	<10	<4	1	<10	<10	<1	74	<6	6

YELLOWSTONE RIVER BASIN

06289600 WEST PASS CREEK NEAR PARKMAN, WY

LOCATION.--Lat 44°59'16", long 107°28'56", in NE¹/₄ NE¹/₄ SE¹/₄ sec.21, T.58 N., R.88 W., Sheridan County, Hydrologic Unit 10080016, on right bank, anchored to concrete headwall of culvert on county road and 7.6 mi northwest of Parkman.

DRAINAGE AREA.--15.4 mi².

PERIOD OF RECORD.--October 1982 to current year (no winter records water years 1985-87).

GAGE.--Water-stage recorder. Elevation of gage is 4,550 ft above sea level, from topographic map. Prior to Apr. 2, 1985, at site 100 ft north (on abandoned channel) at datum 3.28 ft lower. Apr. 2, 1985 to Mar. 27, 1986, at site 300 ft upstream at datum 1.95 ft higher.

REMARKS.--Estimated daily discharges: Dec. 4-9, 15, 16, Jan. 1-8, Feb. 11-18, and Mar. 2-8. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 6	1400	21	0.94	June 8	0030	91	2.00
May 9	1200	*340	*3.97				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	9.0	9.1	5.4	12	5.3	9.8	19	69	36	18	13
2	8.7	9.3	8.4	4.7	10	5.0	10	20	71	36	18	12
3	8.4	9.2	8.2	4.1	8.1	5.4	9.8	19	75	38	18	12
4	7.9	8.9	7.6	3.7	8.4	5.7	9.7	17	76	38	17	12
5	8.0	9.1	7.4	3.5	7.7	5.6	10	17	76	36	17	12
6	13	8.9	7.4	3.5	7.5	5.1	10	20	76	34	17	12
7	9.2	8.7	7.4	3.7	7.3	6.0	10	23	73	34	16	12
8	8.3	8.7	7.4	4.0	7.1	7.0	11	79	77	33	16	12
9	7.8	8.2	8.0	4.7	6.9	8.1	11	291	70	32	16	12
10	8.0	8.7	8.6	8.8	6.4	8.3	9.9	209	60	31	16	12
11	8.0	8.6	9.3	8.2	6.0	8.4	10	133	54	29	15	12
12	8.1	8.8	8.9	7.8	5.6	12	10	133	55	29	15	12
13	7.9	9.7	8.3	7.7	5.2	9.1	10	119	61	28	15	11
14	8.0	8.5	7.8	7.5	5.0	8.3	11	110	67	27	15	11
15	10	8.5	6.6	7.5	5.1	8.3	11	109	69	26	15	11
16	14	8.5	7.3	7.6	5.5	15	11	96	70	25	14	11
17	13	8.6	7.7	7.3	6.4	10	11	94	69	24	14	11
18	12	8.3	8.0	7.7	7.4	9.4	11	93	63	24	15	11
19	9.8	8.2	8.0	7.2	8.9	9.5	10	92	61	24	14	12
20	9.2	8.8	7.7	7.0	8.9	9.2	9.9	83	59	24	14	12
21	9.2	9.0	7.7	6.2	8.4	9.3	10	79	57	24	14	12
22	9.1	9.0	7.5	6.8	8.0	11	10	77	56	23	14	12
23	8.9	8.8	7.5	8.1	7.7	9.9	11	71	50	22	13	11
24	8.9	8.6	7.5	9.5	7.5	9.9	10	66	46	21	13	11
25	8.8	8.5	7.5	9.9	7.7	9.8	12	61	45	21	14	11
26	8.8	8.7	7.5	8.2	7.7	9.7	13	58	45	20	14	11
27	8.9	8.7	7.5	7.5	6.9	9.9	13	60	45	20	13	11
28	9.7	9.7	7.5	7.5	5.7	9.8	15	55	44	19	13	11
29	9.3	10	7.5	7.2	---	9.7	19	55	41	19	13	11
30	9.0	8.9	7.0	7.6	---	9.8	21	57	38	19	13	13
31	9.0	---	5.1	7.6	---	10	---	63	---	18	13	---
TOTAL	286.4	265.1	238.9	207.7	205.0	269.5	340.1	2478	1818	834	462	349
MEAN	9.24	8.84	7.71	6.70	7.32	8.69	11.3	79.9	60.6	26.9	14.9	11.6
MAX	14	10	9.3	9.9	12	15	21	291	77	38	18	13
MIN	7.5	8.2	5.1	3.5	5.0	5.0	9.7	17	38	18	13	11
AC-FT	568	526	474	412	407	535	675	4920	3610	1650	916	692

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	7.45	7.25	6.38	6.16	5.96	7.32	13.1	34.1	25.4	13.5	8.82	7.77	
MAX	9.24	8.84	7.71	7.13	7.32	9.97	25.2	79.9	60.6	26.9	14.9	11.6	
(WY)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	
MIN	5.76	6.34	4.92	4.25	4.02	5.64	9.14	13.0	7.82	5.21	5.07	5.09	
(WY)	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1983 - 1995
ANNUAL TOTAL	4397.3	7753.7	--
ANNUAL MEAN	12.0	21.2	12.9
HIGHEST ANNUAL MEAN	--	--	21.2
LOWEST ANNUAL MEAN	--	--	7.76
HIGHEST DAILY MEAN	50 Apr 24	291 May 9	291 May 9 1995
LOWEST DAILY MEAN	4.4 Jan 17	3.5 Jan 5	.02a Jan 7 1988
ANNUAL SEVEN-DAY MINIMUM	6.3 Sep 5	3.9 Jan 2	.81 Feb 3 1989
INSTANTANEOUS PEAK FLOW	--	340 May 9	340 May 9 1995
INSTANTANEOUS PEAK STAGE	--	3.97 May 9	4.76b Apr 28 1984
ANNUAL RUNOFF (AC-FT)	8720	15380	9350
10 PERCENT EXCEEDS	24	60	24
50 PERCENT EXCEEDS	8.7	10	7.9
90 PERCENT EXCEEDS	6.6	7.2	5.6

a Result of channel blockage or diversion upstream.

b Backwater from ice, site and datum then in use.

YELLOWSTONE RIVER BASIN

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06289820 EAST PASS CREEK NEAR DAYTON, WY

LOCATION.--Lat 44°59'23", long 107°25'20", in SE¹/₄ SE¹/₄ NE¹/₄ sec.24, T.58 N., R.88 W., Sheridan County, Hydrologic Unit 10080016, on left bank 0.3 mi downstream from bridge on county road, 5.0 mi northwest of Parkman, and 11.2 mi northwest of Dayton.

DRAINAGE AREA.--21.7 mi².

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,410 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 4, 13, 15, 17-20, 22-24, 27-29, Dec. 4-11, 15, 16, Dec. 30 to Jan. 11, Jan. 16-18, Jan. 20 to Feb. 20, Feb. 27 to Mar. 9, Mar. 26-30, May 9, 10, and Aug. 8-16. Records good except those for May to Sept., which are fair and those for estimated daily discharges, which are poor. Several small reservoirs upstream from station, combined capacity, 415 acre-ft, for irrigation. Diversions for irrigation of about 2,900 acres upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 25 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 9	1500	*511	*4.47	June 16	2200	130	2.21
June 5	1100	124	2.18				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	9.0	9.0	6.4	12	7.2	11	25	63	26	3.5	13
2	8.7	9.1	8.9	6.0	11	6.8	11	25	68	24	3.4	13
3	8.6	9.1	8.6	5.4	10	7.4	10	26	71	25	3.3	13
4	8.7	8.8	7.2	5.2	9.4	8.0	10	26	85	24	9.1	13
5	8.7	9.0	6.5	5.6	9.0	7.6	10	28	120	23	18	14
6	12	9.0	7.0	6.0	8.8	7.0	11	33	119	20	18	14
7	10	9.0	7.3	6.6	8.7	7.4	11	36	110	19	17	14
8	9.0	9.0	7.4	7.2	8.4	7.9	11	78	107	17	16	17
9	8.5	8.8	7.6	7.6	8.0	8.4	12	304	96	15	16	16
10	8.4	8.7	7.9	8.0	7.6	9.2	13	199	87	15	16	15
11	8.2	8.7	7.7	8.4	7.2	9.0	11	139	78	14	16	14
12	8.3	8.8	7.9	8.5	6.6	11	12	127	78	13	15	13
13	8.4	8.5	8.1	8.4	6.2	10	12	145	87	12	15	13
14	8.4	8.9	8.1	8.5	5.9	9.5	13	134	104	13	15	13
15	9.4	8.5	7.6	8.5	6.2	9.4	13	126	122	11	15	13
16	12	8.8	8.2	8.5	6.7	13	13	122	128	9.5	14	13
17	12	8.9	8.3	8.6	7.7	12	12	123	125	10	15	14
18	12	8.5	8.4	8.2	8.5	11	12	121	112	10	16	14
19	11	8.2	8.7	8.3	9.2	12	12	119	102	8.9	15	17
20	10	8.4	8.7	7.9	9.5	12	12	110	94	8.1	14	23
21	10	8.9	8.8	7.4	11	11	13	102	83	7.7	13	20
22	9.9	8.2	8.7	8.2	11	12	13	98	74	6.5	13	15
23	9.6	8.3	8.7	9.6	10	12	13	93	64	6.0	14	15
24	9.5	8.5	8.7	11	10	12	13	83	58	5.5	14	15
25	9.3	8.8	8.7	12	10	12	14	73	52	4.7	16	14
26	9.3	8.7	8.7	10	10	11	15	64	48	4.3	17	14
27	9.0	8.5	8.7	9.4	9.5	11	15	57	44	4.0	13	14
28	9.6	8.6	8.7	9.0	8.3	11	17	53	41	4.0	13	14
29	9.4	8.2	8.7	8.8	---	10	20	49	35	4.0	13	15
30	9.0	8.7	6.8	9.1	---	10	26	47	30	3.9	13	18
31	9.0	---	5.8	10	---	11	---	50	---	3.8	13	---
TOTAL	293.7	261.1	250.1	252.3	246.4	308.8	391	2815	2485	371.9	422.3	443
MEAN	9.47	8.70	8.07	8.14	8.80	9.96	13.0	90.8	82.8	12.0	13.6	14.8
MAX	12	9.1	9.0	12	12	13	26	304	128	26	18	23
MIN	7.8	8.2	5.8	5.2	5.9	6.8	10	25	30	3.8	3.3	13
AC-FT	583	518	496	500	489	613	776	5580	4930	738	838	879

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	8.58	8.81	8.25	8.38	8.39	9.41	15.7	43.6	36.7	13.1	7.56	7.81	
MAX	10.9	10.8	9.85	10.2	9.94	12.3	32.4	90.8	82.8	32.9	14.8	14.8	
(WY)	1985	1985	1983	1983	1983	1984	1994	1995	1995	1992	1993	1995	
MIN	5.73	6.90	6.69	6.96	6.78	7.29	9.30	15.2	6.65	5.06	2.73	4.02	
(WY)	1991	1986	1988	1988	1989	1990	1992	1985	1985	1985	1988	1989	

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1983 - 1995
ANNUAL TOTAL	5328.9	8540.6	
ANNUAL MEAN	14.6	23.4	14.7
HIGHEST ANNUAL MEAN			23.6
LOWEST ANNUAL MEAN			8.57
HIGHEST DAILY MEAN	75	304	304
LOWEST DAILY MEAN	2.2	3.3	1.7
ANNUAL SEVEN-DAY MINIMUM	2.8	3.7	2.1
INSTANTANEOUS PEAK FLOW		511a	511a
INSTANTANEOUS PEAK STAGE		4.47	4.47
ANNUAL RUNOFF (AC-FT)	10570	16940	10660
10 PERCENT EXCEEDS	34	73	28
50 PERCENT EXCEEDS	9.4	11	9.1
90 PERCENT EXCEEDS	6.4	7.4	6.0

a From rating curve extended above 221 ft³/s.

YELLOWSTONE RIVER BASIN

06298000 TONGUE RIVER NEAR DAYTON, WY

LOCATION.--Lat 44°50'58", long 107°18'14", in NE¹/₄ NE¹/₄ NE¹/₄ sec.11, T.56 N., R.87 W., Sheridan County, Hydrologic Unit 10090101, on left bank 0.5 mi upstream from Crystal Draw, 0.6 mi downstream from intake of Highline Ditch, and 2.5 mi southwest of Dayton.

DRAINAGE AREA.--204 mi².

PERIOD OF RECORD.--October 1918 to September 1929, October 1940 to current year. Monthly discharge only for some periods, published in WSP 1309.

REVISED RECORDS.--WSP 1309: 1921.

GAGE.--Water-stage recorder. Elevation of gage is 4,060 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: May 2, 3, and July 19 to Aug. 4. Records good except those for estimated daily discharges, which are poor. Small diversion upstream from station for Dayton municipal supply. Figures of daily discharge do not include water diverted 0.6 mi upstream from station by Highline ditch for irrigation downstream from station. National Weather Service satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 980 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 5	2200	2,080	5.28	June 16	0200	*2,180	*5.37

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	93	69	47	54	31	55	66	815	555	170	88
2	84	83	70	54	57	43	60	83	979	531	165	86
3	96	78	69	48	53	58	54	80	1210	604	160	85
4	89	62	61	54	54	57	57	80	1360	561	160	88
5	115	85	64	63	54	55	66	85	1600	511	157	96
6	129	82	63	63	54	53	68	106	1800	483	155	87
7	104	87	68	68	50	54	86	127	1480	498	143	90
8	95	81	57	68	51	51	103	179	1200	447	142	94
9	98	73	55	66	49	56	85	293	983	421	137	105
10	101	83	55	60	41	56	68	256	866	400	134	97
11	99	81	62	58	26	61	67	266	849	392	133	91
12	101	83	61	57	38	78	75	331	1030	383	130	90
13	93	82	60	57	54	66	82	332	1400	363	127	85
14	92	57	60	57	67	61	120	285	1620	336	124	84
15	95	55	59	57	72	63	91	309	1790	325	120	83
16	94	73	59	58	70	70	92	418	1880	317	117	82
17	94	75	61	57	67	65	81	487	1660	309	116	81
18	110	59	62	53	61	60	78	516	1420	302	120	82
19	102	61	63	57	57	62	74	523	1270	290	121	96
20	97	76	62	57	57	54	78	505	1200	270	112	105
21	104	69	61	50	58	62	77	576	1170	250	108	98
22	97	59	61	44	56	66	70	562	1100	240	107	92
23	83	72	59	51	54	51	76	464	936	230	105	109
24	85	73	61	59	54	63	68	438	817	220	105	98
25	85	75	61	58	55	54	77	410	764	210	104	101
26	87	74	60	57	55	53	64	390	754	200	109	59
27	100	69	60	57	50	56	66	390	743	190	100	98
28	102	68	60	56	40	55	80	380	754	190	98	96
29	62	67	60	52	---	45	74	446	683	185	94	99
30	60	69	54	52	---	54	74	550	601	180	92	129
31	73	---	36	56	---	63	---	677	---	170	91	---
TOTAL	2889	2204	1873	1751	1508	1776	2266	10610	34734	10563	3856	2814
MEAN	93.2	73.5	60.4	56.5	53.9	57.3	75.5	342	1158	341	124	93.8
MAX	129	93	70	68	72	78	120	677	1880	604	170	129
MIN	60	55	36	44	26	31	54	66	601	170	91	81
AC-FT	5730	4370	3720	3470	2990	3520	4490	21040	68890	20950	7650	5580
+	62	2.1	.00	.00	.00	.00	.00	226	1050	1680	1620	710
ADJUSTED FOR DIVERSION BY HIGHLINE DITCH												
MEAN	94.2	73.5	60.4	56.5	53.9	57.3	75.5	346	1175	368	151	106
AC-FT	5790	4370	3720	3470	2990	3520	4490	21270	69940	22630	9270	6290

YELLOWSTONE RIVER BASIN

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06298000 TONGUE RIVER NEAR DAYTON, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 1995, BY WATER YEAR (WY)												
MEAN	82.0	68.1	61.3	55.9	52.6	51.7	110	525	710	247	112	85.2
MAX	284	155	108	88.9	80.8	72.0	354	1048	1482	767	244	163
(WY)	1924	1924	1924	1924	1924	1924	1926	1926	1978	1975	1927	1968
MIN	49.6	41.1	39.6	36.1	34.1	38.1	44.2	266	214	81.1	52.8	42.8
(WY)	1955	1941	1941	1941	1941	1941	1975	1953	1919	1919	1966	1966

SUMMARY STATISTICS		FOR 1994 CALENDAR YEAR*		FOR 1995 WATER YEAR*		WATER YEARS 1919 - 1995*	
ANNUAL TOTAL		54478		76844		--	
ANNUAL MEAN		149		211		182	
HIGHEST ANNUAL MEAN		--		--		316	1924
LOWEST ANNUAL MEAN		--		--		98.4	1989
HIGHEST DAILY MEAN		1220	May 13	1880	Jun 16	2590	Jun 5 1968
LOWEST DAILY MEAN		36	Dec 31	26	Feb 11	18	Nov 29 1919
ANNUAL SEVEN-DAY MINIMUM		48	Sep 6	44	Feb 6	31	Nov 9 1940
INSTANTANEOUS PEAK FLOW		--		2180	Jun 16	3400	Jun 3 1944
INSTANTANEOUS PEAK STAGE		--		5.37	Jun 16	6.45	Jun 3 1944
ANNUAL RUNOFF (AC-FT)		108100		152400		131500	
10 PERCENT EXCEEDS		374		552		487	
50 PERCENT EXCEEDS		69		83		73	
90 PERCENT EXCEEDS		55		54		48	

+ Diversion, in acre-feet, upstream from station by Highline Ditch.

* Unadjusted for diversion by Highline Ditch.

ADJUSTED FOR DIVERSION BY HIGHLINE DITCH			
	Annual Total	Annual Mean	Annual Runoff (ac-ft)
1994 Calendar Year	57,270	157	113,600
1995 Water Year	79,540	218	157,800

YELLOWSTONE RIVER BASIN

06299500 WOLF CREEK AT WOLF, WY

LOCATION.--Lat 44°46'21", long 107°14'01", in NE¹/₄ SW¹/₄ NW¹/₄ sec.4, T.55 N., R.86 W., Sheridan County, Hydrologic Unit 10090101, on left bank at Wolf and 0.5 mi downstream from Red Canyon Creek.

DRAINAGE AREA.--37.8 mi².

PERIOD OF RECORD.--January 1945 to current year (no winter records since 1971). Monthly discharge for January to March 1945, published in WSP 1309.

GAGE.--Water-stage recorder. Elevation of gage is 4,525 ft above sea level, from topographic map. Prior to May 26, 1945, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. No diversion upstream from station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, about 5.0 ft, May 18, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 180 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 9	1200	276	2.81	June 15	2000	*516	*3.57
June 5	2100	495	3.52				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	7.0	10	150	117	27	11
2	---	---	---	---	---	---	7.2	12	184	108	25	11
3	---	---	---	---	---	---	7.0	12	236	121	25	11
4	---	---	---	---	---	---	7.2	12	271	106	25	11
5	---	---	---	---	---	---	8.6	14	358	98	26	11
6	---	---	---	---	---	---	8.6	17	390	93	25	11
7	---	---	---	---	---	---	11	19	341	91	22	11
8	---	---	---	---	---	---	12	36	287	82	21	12
9	---	---	---	---	---	---	10	179	231	76	21	16
10	---	---	---	---	---	---	8.3	131	215	72	20	13
11	---	---	---	---	---	---	9.2	102	213	68	19	12
12	---	---	---	---	---	---	9.9	93	258	64	19	11
13	---	---	---	---	---	---	11	83	338	60	19	11
14	---	---	---	---	---	---	13	70	386	55	18	10
15	---	---	---	---	---	---	10	76	418	53	17	9.9
16	---	---	---	---	---	---	11	91	435	51	16	9.9
17	---	---	---	---	---	---	10	100	404	49	16	9.6
18	---	---	---	---	---	---	10	114	358	46	16	9.9
19	---	---	---	---	---	---	9.6	115	325	51	16	11
20	---	---	---	---	---	---	10	111	297	57	15	12
21	---	---	---	---	---	---	10	115	284	46	14	11
22	---	---	---	---	---	---	9.6	115	253	47	14	11
23	---	---	---	---	---	---	10	102	215	42	14	12
24	---	---	---	---	---	---	9.6	90	191	38	13	11
25	---	---	---	---	---	---	10	79	175	37	13	11
26	---	---	---	---	---	---	9.2	71	164	35	14	11
27	---	---	---	---	---	---	9.9	66	157	33	13	11
28	---	---	---	---	---	---	11	64	157	31	12	11
29	---	---	---	---	---	---	11	70	143	30	12	12
30	---	---	---	---	---	---	11	90	127	29	11	16
31	---	---	---	---	---	---	---	117	---	28	11	---
TOTAL	---	---	---	---	---	---	291.9	2376	7961	1914	549	341.3
MEAN	---	---	---	---	---	---	9.73	76.6	265	61.7	17.7	11.4
MAX	---	---	---	---	---	---	13	179	435	121	27	16
MIN	---	---	---	---	---	---	7.0	10	127	28	11	9.6
AC-FT	---	---	---	---	---	---	579	4710	15790	3800	1090	677

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1971, BY WATER YEAR (WY)

	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
MEAN	8.73	6.98	5.69	4.73	4.48	4.79	13.6	99.7	138	39.1	15.0	10.1														
MAX	14.2	9.97	7.46	6.07	5.64	6.24	33.3	161	263	72.0	30.8	23.0														
(WY)	1969	1952	1969	1962	1962	1947	1962	1963	1964	1951	1951	1968														
MIN	6.46	5.73	3.83	2.80	3.15	3.65	6.39	35.6	50.3	17.9	6.23	6.82														
(WY)	1957	1961	1950	1950	1957	1957	1958	1960	1960	1960	1961	1954														

SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1946 - 1971
ANNUAL MEAN	---	29.3
HIGHEST ANNUAL MEAN	---	45.0
LOWEST ANNUAL MEAN	---	13.8
HIGHEST DAILY MEAN	435	601
LOWEST DAILY MEAN	7.0	1.8
ANNUAL SEVEN-DAY MINIMUM	---	2.5
INSTANTANEOUS PEAK FLOW	516	1130a
INSTANTANEOUS PEAK STAGE	3.57	4.60
ANNUAL RUNOFF (AC-FT)	---	21220
10 PERCENT EXCEEDS	---	90
50 PERCENT EXCEEDS	---	7.9
90 PERCENT EXCEEDS	---	4.4

* During period of operation.

For period of record through 1995.

a From rating curve extended above 500 ft³/s.

06300500 EAST FORK BIG GOOSE CREEK NEAR BIG HORN, WY

LOCATION.--Lat 44°32'18", long 107°13'33", in SE¹/₄ SE¹/₄ NW¹/₄ sec.28, T.53 N., R.86 W., Johnson County, Hydrologic Unit 10090101, Bighorn National Forest, on right bank 0.7 mi upstream from Park Reservoir and 16 mi southwest of Big Horn.

DRAINAGE AREA.--20.1 mi².

PERIOD OF RECORD.--October 1953 to current year (no winter records since 1973). Prior to October 1960, published as East Goose Creek near Big Horn.

GAGE.--Water-stage recorder. Elevation of gage is 8,320 ft above sea level, from topographic map. Prior to June 28, 1960, water-stage recorder at site 1.1 mi downstream at different datum. June 28, 1960, to July 14, 1970, water-stage recorder at site 0.9 mi downstream at different datums and July 15 to Oct. 7, 1970, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharges: June 1-15. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	230	163	37	9.2
2	---	---	---	---	---	---	---	---	275	197	33	8.9
3	---	---	---	---	---	---	---	---	350	243	30	8.5
4	---	---	---	---	---	---	---	---	380	195	30	8.5
5	---	---	---	---	---	---	---	---	465	188	30	9.5
6	---	---	---	---	---	---	---	---	550	212	28	9.2
7	---	---	---	---	---	---	---	---	495	278	26	8.9
8	---	---	---	---	---	---	---	---	435	255	24	9.7
9	---	---	---	---	---	---	---	---	300	233	23	14
10	---	---	---	---	---	---	---	---	250	230	21	12
11	---	---	---	---	---	---	---	---	265	243	21	10
12	---	---	---	---	---	---	---	---	330	220	21	9.5
13	---	---	---	---	---	---	---	---	455	185	20	8.9
14	---	---	---	---	---	---	---	---	595	140	18	8.3
15	---	---	---	---	---	---	---	---	690	122	17	7.6
16	---	---	---	---	---	---	---	---	746	106	16	7.2
17	---	---	---	---	---	---	---	---	559	91	16	6.8
18	---	---	---	---	---	---	---	---	409	86	16	6.7
19	---	---	---	---	---	---	---	---	333	94	16	8.3
20	---	---	---	---	---	---	---	---	355	116	14	11
21	---	---	---	---	---	---	---	---	401	85	13	11
22	---	---	---	---	---	---	---	---	356	86	13	11
23	---	---	---	---	---	---	---	---	255	72	13	10
24	---	---	---	---	---	---	---	---	203	63	13	9.9
25	---	---	---	---	---	---	---	---	226	58	12	9.2
26	---	---	---	---	---	---	---	---	265	54	15	9.2
27	---	---	---	---	---	---	---	---	329	49	13	9.1
28	---	---	---	---	---	---	---	---	324	47	12	8.7
29	---	---	---	---	---	---	---	---	196	44	11	9.5
30	---	---	---	---	---	---	---	---	149	44	10	13
31	---	---	---	---	---	---	---	---	---	44	9.5	---
TOTAL	---	---	---	---	---	---	---	---	11171	4243	591.5	283.3
MEAN	---	---	---	---	---	---	---	---	372	137	19.1	9.44
MAX	---	---	---	---	---	---	---	---	746	278	37	14
MIN	---	---	---	---	---	---	---	---	149	44	9.5	6.7
AC-FT	---	---	---	---	---	---	---	---	22160	8420	1170	562

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1973, BY WATER YEAR (WY)

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
MEAN	8.61	5.47	3.65	3.04	2.60	2.52	4.97	84.4	188	56.9	18.2	12.4								
MAX	16.9	8.43	5.32	4.16	3.30	3.52	18.6	152	260	111	46.5	37.0								
(WY)	1968	1969	1958	1962	1959	1962	1962	1958	1963	1964	1968	1968								
MIN	4.48	2.85	2.23	1.87	1.63	1.15	1.76	28.9	84.6	20.5	7.39	5.22								
(WY)	1971	1963	1963	1971	1971	1971	1971	1968	1966	1961	1961	1954								

SUMMARY STATISTICS

	FOR 1994 WATER YEAR*	WATER YEARS 1954 - 1973
ANNUAL MEAN	---	32.6
HIGHEST ANNUAL MEAN	---	41.8
LOWEST ANNUAL MEAN	---	21.4
HIGHEST DAILY MEAN	746 Jun 16	775 Jun 15 1963
LOWEST DAILY MEAN	6.7 Sep 18	1.0 Dec 11-14 1963, Mar 24, 25
		Nov 14, 15 1964, Mar 18 1971#
ANNUAL SEVEN-DAY MINIMUM	---	1.1
INSTANTANEOUS PEAK FLOW	1140 Jun 15	1230a Jun 15 1963#
INSTANTANEOUS PEAK STAGE	6.69 Jun 15	4.59b Jun 15 1963
ANNUAL RUNOFF (AC-FT)	---	23600
10 PERCENT EXCEEDS	---	102
50 PERCENT EXCEEDS	---	6.0
90 PERCENT EXCEEDS	---	2.4

* During period of operation.

For period of record through 1995.

a From rating curve extended above 250 ft³/s on basis of slope-area measurement of peak flow.

b Site and datum then in use.

YELLOWSTONE RIVER BASIN

06301500 WEST FORK BIG GOOSE CREEK NEAR BIG HORN, WY

LOCATION.--Lat 44°36'47", long 107°17'49", in NE¹/₄ SE¹/₄ NE¹/₄ sec.35, T.54 N., R.87 W., Sheridan County, Hydrologic Unit 10090101, Bighorn National Forest, on left bank 0.3 mi downstream from Twin Lakes Branch and 16 mi west of Big Horn.

DRAINAGE AREA.--24.4 mi².

PERIOD OF RECORD.--October 1953 to current year (no winter records since 1971). Prior to October 1960, published as West Goose Creek near Big Horn.

GAGE.--Water-stage recorder. Elevation of gage is 8,420 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: May 1-17. Records good except those for estimated daily discharges, which are poor. Some regulation by Twin Lakes, capacity, 1,200 acre-ft, and Dome Lake, capacity, 1,800 acre-ft. No diversion upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	4.1	9.8	193	43	9.5
2	---	---	---	---	---	---	---	4.1	11	217	39	8.6
3	---	---	---	---	---	---	---	4.2	14	284	36	8.6
4	---	---	---	---	---	---	---	4.3	25	259	35	11
5	---	---	---	---	---	---	---	4.4	253	217	34	16
6	---	---	---	---	---	---	---	4.6	478	234	34	13
7	---	---	---	---	---	---	---	4.4	404	271	31	13
8	---	---	---	---	---	---	---	4.2	244	267	28	14
9	---	---	---	---	---	---	---	4.0	168	240	26	15
10	---	---	---	---	---	---	---	4.2	125	221	25	14
11	---	---	---	---	---	---	---	4.4	110	217	23	14
12	---	---	---	---	---	---	---	4.6	152	210	22	13
13	---	---	---	---	---	---	---	4.1	376	184	21	13
14	---	---	---	---	---	---	---	3.7	527	154	19	13
15	---	---	---	---	---	---	---	3.2	592	133	18	34
16	---	---	---	---	---	---	---	3.4	674	116	18	61
17	---	---	---	---	---	---	---	3.7	598	104	17	58
18	---	---	---	---	---	---	---	4.6	479	97	23	60
19	---	---	---	---	---	---	---	6.2	400	84	26	63
20	---	---	---	---	---	---	---	7.4	414	91	26	56
21	---	---	---	---	---	---	---	8.0	443	91	21	50
22	---	---	---	---	---	---	---	7.5	446	92	13	48
23	---	---	---	---	---	---	---	6.7	337	84	13	48
24	---	---	---	---	---	---	---	6.3	255	73	13	46
25	---	---	---	---	---	---	---	5.9	254	68	13	44
26	---	---	---	---	---	---	---	5.7	307	62	13	43
27	---	---	---	---	---	---	---	5.7	371	56	13	43
28	---	---	---	---	---	---	---	5.7	413	52	18	43
29	---	---	---	---	---	---	---	6.1	262	49	19	43
30	---	---	---	---	---	---	---	7.8	198	44	18	43
31	---	---	---	---	---	---	---	8.9	---	46	18	---
TOTAL	---	---	---	---	---	---	---	162.1	9339.8	4510	716	958.7
MEAN	---	---	---	---	---	---	---	5.23	311	145	23.1	32.0
MAX	---	---	---	---	---	---	---	8.9	674	284	43	63
MIN	---	---	---	---	---	---	---	3.2	9.8	44	13	8.6
AC-FT	---	---	---	---	---	---	---	322	18530	8950	1420	1900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1971, BY WATER YEAR (WY)

	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
MEAN	8.56	6.16	4.82	3.79	3.09	2.98	5.05	65.3	198	60.9	29.7	24.1						
MAX	18.0	10.3	9.61	6.55	5.96	5.40	15.5	139	305	111	57.3	48.9						
(WY)	1963	1969	1969	1965	1963	1963	1962	1956	1965	1965	1968	1968						
MIN	2.67	1.22	1.03	1.05	1.06	1.46	1.71	13.9	101	35.1	19.4	6.32						
(WY)	1964	1964	1964	1964	1964	1964	1957	1957	1966	1966	1969	1956						

SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1954 - 1971
ANNUAL MEAN	---	34.3
HIGHEST ANNUAL MEAN	---	45.7
LOWEST ANNUAL MEAN	---	21.7
HIGHEST DAILY MEAN	674 Jun 16	674 Jun 16 1995
LOWEST DAILY MEAN	3.2 May 15	.80 Dec 14, 26 1963
		Jan 15, 16
		Feb 26 1964#
		.89 Dec 20 1963
ANNUAL SEVEN-DAY MINIMUM	---	
INSTANTANEOUS PEAK FLOW	739 Jun 16	1030a Jun 15 1963#
INSTANTANEOUS PEAK STAGE	4.81 Jun 16	5.37 Jun 15 1963#
ANNUAL RUNOFF (AC-FT)	---	24880
10 PERCENT EXCEEDS	---	90
50 PERCENT EXCEEDS	---	6.9
90 PERCENT EXCEEDS	---	2.3

* During period of operation.

For period of record through 1995.

a From rating curve extended above 410 ft³/s on basis of velocity-area study.

06302000 BIG GOOSE CREEK NEAR SHERIDAN, WY

LOCATION.--Lat 44°42'08", long 107°10'51", in NW¹/4 NE¹/4 sec.35, T.55 N., R.86 W., Sheridan County, Hydrologic Unit 10090101, on right bank 0.4 mi upstream from Cave Creek and 14 mi southwest of Sheridan.

DRAINAGE AREA.--120 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1929 to current year (no winter records since 1971). Prior to October 1960, published as Goose Creek near Sheridan. Monthly discharge only for some periods, published in WSP 1309.

REVISED RECORDS.--WSP 1006: Drainage area. WSP 1509: 1930(M), 1931.

GAGE.--Water-stage recorder. Elevation of gage is 4,505 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transbasin diversions, storage reservoirs, diversions for irrigation of about 20 acres and to Sheridan Filtration plant, and return flow from irrigated areas. PK ditch diverts water 0.6 mi upstream from station for irrigation of lands downstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	18	21	259	485	26	45
2	---	---	---	---	---	---	19	25	316	462	21	34
3	---	---	---	---	---	---	17	24	392	611	27	32
4	---	---	---	---	---	---	18	19	435	671	23	36
5	---	---	---	---	---	---	21	18	705	531	23	62
6	---	---	---	---	---	---	22	23	1000	503	27	52
7	---	---	---	---	---	---	27	25	915	611	24	49
8	---	---	---	---	---	---	31	72	770	711	23	51
9	---	---	---	---	---	---	26	202	638	611	21	59
10	---	---	---	---	---	---	19	174	565	546	23	48
11	---	---	---	---	---	---	23	162	565	570	25	44
12	---	---	---	---	---	---	26	169	660	560	27	38
13	---	---	---	---	---	---	28	165	981	475	26	37
14	---	---	---	---	---	---	36	155	1430	368	24	37
15	---	---	---	---	---	---	27	169	1560	259	22	38
16	---	---	---	---	---	---	28	207	1870	186	20	73
17	---	---	---	---	---	---	26	232	1920	181	18	74
18	---	---	---	---	---	---	25	256	1690	162	22	72
19	---	---	---	---	---	---	24	253	1480	141	27	78
20	---	---	---	---	---	---	26	235	1270	146	25	79
21	---	---	---	---	---	---	26	253	1310	141	21	71
22	---	---	---	---	---	---	23	244	1330	141	17	65
23	---	---	---	---	---	---	24	204	1050	126	17	65
24	---	---	---	---	---	---	20	181	789	99	19	61
25	---	---	---	---	---	---	21	165	699	88	19	57
26	---	---	---	---	---	---	19	156	728	73	21	51
27	---	---	---	---	---	---	21	151	789	51	18	48
28	---	---	---	---	---	---	22	144	1130	41	23	47
29	---	---	---	---	---	---	22	156	813	35	27	46
30	---	---	---	---	---	---	22	191	565	36	26	54
31	---	---	---	---	---	---	---	226	---	35	38	---
TOTAL	---	---	---	---	---	---	707	4677	28624	9656	720	1603
MEAN	---	---	---	---	---	---	23.6	151	954	311	23.2	53.4
MAX	---	---	---	---	---	---	36	256	1920	711	38	79
MIN	---	---	---	---	---	---	17	18	259	35	17	32
AC-FT	---	---	---	---	---	---	1400	9280	56780	19150	1430	3180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1971, BY WATER YEAR (WY)

	MEAN	27.5	18.6	14.0	11.9	10.2	10.4	33.4	233	439	92.4	32.6	30.7
MAX	93.3	48.0	30.3	22.0	18.2	20.2	102	576	764	266	71.7	116	116
(WY)	1947	1942	1951	1951	1951	1946	1943	1944	1963	1945	1968	1941	1941
MIN	9.68	7.08	5.19	2.66	2.90	2.75	11.5	37.2	49.6	22.3	10.3	11.3	11.3
(WY)	1953	1940	1955	1955	1955	1937	1970	1960	1934	1961	1934	1931	1931

SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1930 - 1971
ANNUAL MEAN	---	80.2
HIGHEST ANNUAL MEAN	---	137
LOWEST ANNUAL MEAN	---	26.6
HIGHEST DAILY MEAN	1920	2050
LOWEST DAILY MEAN	17	1.6
ANNUAL SEVEN-DAY MINIMUM	---	2.2
INSTANTANEOUS PEAK FLOW	2090	3160a
INSTANTANEOUS PEAK STAGE	4.65	5.83
ANNUAL RUNOFF (AC-FT)	---	58100
10 PERCENT EXCEEDS	---	214
50 PERCENT EXCEEDS	---	20
90 PERCENT EXCEEDS	---	8.0

* During period of operation.

For period of record through 1995.

a From rating curve extended above 1,600 ft³/s.

YELLOWSTONE RIVER BASIN

06302000 BIG GOOSE CREEK NEAR SHERIDAN, WY--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
OCT 25...	1430	64	58	7.2	3.5	14.5	648	10.2	90	K86
MAR 16...	1255	20	105	7.4	4.0	5.0	650	11.4	102	K7
JUN 28...	1545	1050	27	8.2	8.0	8.0	653	10.8	107	57
AUG 31...	1455	69	71	7.6	13.0	23.5	672	8.6	93	44

K-Results based on colony count outside the acceptable range (non-ideal colony count).

YELLOWSTONE RIVER BASIN

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06303500 LITTLE GOOSE CREEK IN CANYON, NEAR BIG HORN, WY

LOCATION.--Lat 44°35'46", long 107°02'22", in SE¹/₄ SW¹/₄ NE¹/₄ sec.1, T.53 N., R.85 W., Sheridan County, Hydrologic Unit 10090101, on left bank 100 ft upstream from headgate of Lower Peralta ditch and 6.5 mi southwest of Big Horn.
 DRAINAGE AREA.--51.6 mi².
 PERIOD OF RECORD.--April 1941 to current year (no winter records since 1971).
 REVISED RECORDS.--WDR WY-76-1: Drainage area.
 GAGE.--Water-stage recorder. Elevation of gage is 4,860 ft above sea level, from topographic map.
 REMARKS.--No estimated daily discharges. Records good. Three small reservoirs upstream from station, combined capacity, 860 acre-ft, two of which store some imported water. Water imported into drainage basin upstream from station from East Goose Creek basin is diverted downstream from station for irrigation.
 COOPERATION.--Records provided by Office of the Wyoming State Engineer and reviewed by the Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	19	26	346	254	88	86
2	---	---	---	---	---	---	19	29	405	257	90	77
3	---	---	---	---	---	---	19	30	505	282	100	76
4	---	---	---	---	---	---	19	30	529	261	108	77
5	---	---	---	---	---	---	22	37	586	254	120	81
6	---	---	---	---	---	---	23	50	628	265	119	81
7	---	---	---	---	---	---	26	57	556	272	109	80
8	---	---	---	---	---	---	32	132	505	249	101	82
9	---	---	---	---	---	---	30	456	433	236	101	86
10	---	---	---	---	---	---	26	396	385	218	107	79
11	---	---	---	---	---	---	27	297	375	201	104	77
12	---	---	---	---	---	---	29	278	427	186	104	74
13	---	---	---	---	---	---	32	261	553	168	103	74
14	---	---	---	---	---	---	37	218	664	163	102	76
15	---	---	---	---	---	---	33	223	766	160	102	72
16	---	---	---	---	---	---	33	267	796	140	102	65
17	---	---	---	---	---	---	32	302	769	131	100	64
18	---	---	---	---	---	---	31	344	679	138	103	65
19	---	---	---	---	---	---	30	350	589	139	108	69
20	---	---	---	---	---	---	31	326	556	160	107	69
21	---	---	---	---	---	---	31	335	583	132	108	65
22	---	---	---	---	---	---	28	338	508	128	108	63
23	---	---	---	---	---	---	29	291	425	119	107	61
24	---	---	---	---	---	---	26	254	373	111	103	60
25	---	---	---	---	---	---	29	222	366	98	103	58
26	---	---	---	---	---	---	28	208	381	95	108	54
27	---	---	---	---	---	---	27	196	395	81	102	52
28	---	---	---	---	---	---	29	189	402	79	102	50
29	---	---	---	---	---	---	28	198	306	89	95	49
30	---	---	---	---	---	---	27	231	265	84	91	50
31	---	---	---	---	---	---	---	280	---	84	90	---
TOTAL	---	---	---	---	---	---	832	6851	15056	5234	3195	2072
MEAN	---	---	---	---	---	---	27.7	221	502	169	103	69.1
MAX	---	---	---	---	---	---	37	456	796	282	120	86
MIN	---	---	---	---	---	---	19	26	265	79	88	49
AC-FT	---	---	---	---	---	---	1650	13590	29860	10380	6340	4110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1971, BY WATER YEAR (WY)

	MEAN	23.5	13.1	10.4	8.58	8.11	8.48	32.9	183	241	102	79.2	47.4
MAX	46.0	26.5	17.5	12.3	13.9	14.1	106	339	426	140	124	84.4	
(WY)	1959	1962	1942	1942	1962	1962	1943	1944	1970	1967	1968	1958	
MIN	12.7	8.51	6.49	4.99	5.37	5.76	9.46	80.4	106	79.0	44.2	20.4	
(WY)	1954	1955	1950	1950	1950	1950	1970	1950	1966	1958	1960	1960	

SUMMARY STATISTICS

	For 1995 WATER YEAR*	WATER YEARS 1941 - 1971
ANNUAL MEAN	---	63.4
HIGHEST ANNUAL MEAN	---	83.9
LOWEST ANNUAL MEAN	---	40.6
HIGHEST DAILY MEAN	796	837
LOWEST DAILY MEAN	19	3.0
ANNUAL SEVEN-DAY MINIMUM	---	4.5
INSTANTANEOUS PEAK FLOW	888	1350a
INSTANTANEOUS PEAK STAGE	5.62	6.78
ANNUAL RUNOFF (AC-FT)	---	45900
10 PERCENT EXCEEDS	---	172
50 PERCENT EXCEEDS	---	21
90 PERCENT EXCEEDS	---	7.5

* During period of operation.

For period of record through 1995.

a From rating curve extended above 900 ft³/s.

YELLOWSTONE RIVER BASIN

06304500 LITTLE GOOSE CREEK AT SHERIDAN, WY

LOCATION.--Lat 44°48'10", long 106°57'10", in NE¹/₄ NW¹/₄ sec.26, T.56 N., R.84 W., Sheridan County, Hydrologic Unit 10090101, at bridge on Sheridan Avenue in Sheridan and 0.6 mi upstream from mouth.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
OCT 25...	1245	67	540	8.2	6.0	15.0	666	12.8	118	41
MAR 07...	1515	38	590	7.8	0.5	-8.5	667	12.0	95	K1
JUN 29...	0715	468	103	7.8	8.0	9.0	681	9.2	87	740
AUG 31...	1250	19	628	8.5	20.5	21.0	672	11.4	144	96

K-Results based on colony count outside the acceptable range (non-ideal colony count).

06305500 GOOSE CREEK BELOW SHERIDAN, WY

LOCATION.--Lat 44°49'25", long 106°57'40", in SE¹/₄ SW¹/₄ sec.15, T.56 N., R.84 W., Sheridan County, Hydrologic Unit 10090101, 700 ft north of Sheridan city limits and 0.2 mi downstream from Soldier Creek.

DRAINAGE AREA.--392 mi².

PERIOD OF RECORD.--Water years 1959-65, 1968 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM HG) (00025)
OCT 25...	1640	158	485	8.4	7.0	14.0	666
MAR 07...	1640	74	616	7.9	0.0	-6.0	670
JUN 29...	0900	1990	63	8.2	8.5	8.0	677
AUG 31...	1020	49	686	8.3	16.5	19.0	672

DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 25...	11.7	111	110	<0.01	0.34	<0.02	0.05
MAR 07...	12.3	96	1200	<0.01	0.86	0.02	0.10
JUN 29...	10.2	98	650	<0.01	0.07	0.02	0.02
AUG 31...	9.7	113	300	<0.01	0.57	<0.02	0.21

YELLOWSTONE RIVER BASIN

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06305700 GOOSE CREEK NEAR ACME, WY

LOCATION.--Lat 44°53'11", long 106°59'18", in SE¹/₄ SE¹/₄ NE¹/₄ sec.28, T.57 N., R.84 W., Sheridan County, Hydrologic Unit 10090101, on right bank 0.2 mi north of county road, 1.6 mi south of Acme, and 3.4 mi upstream from mouth.

DRAINAGE AREA.--411 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 3,620 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 13 to Feb. 24 and Mar. 2-4. Records good except those for estimated daily discharges, which are poor. Some regulation by many small reservoirs, combined capacity, about 15,000 acre-ft. Natural flow of stream affected by transbasin diversions, storage reservoirs, diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	148	100	61	102	79	87	155	668	908	97	54
2	63	141	97	62	100	87	86	140	746	820	81	57
3	89	128	94	62	100	120	84	130	924	908	69	51
4	94	114	87	61	104	97	82	128	1010	1080	68	40
5	82	123	86	62	107	94	84	124	1210	984	59	42
6	123	125	88	67	102	105	87	135	1630	853	57	54
7	155	120	91	72	98	110	90	149	1790	915	47	54
8	110	119	94	74	92	129	108	272	1730	1020	40	60
9	97	113	98	76	96	100	121	1080	1530	994	42	88
10	96	115	103	73	90	118	98	1450	1290	849	47	96
11	99	116	108	70	68	198	91	898	1110	818	47	87
12	96	111	110	67	81	206	100	785	1120	786	48	81
13	97	107	107	66	97	163	94	805	1350	740	49	73
14	97	100	99	65	110	120	104	713	1750	600	53	68
15	115	82	90	68	131	105	108	863	2150	515	51	75
16	214	95	93	73	150	129	101	829	2500	398	46	81
17	213	94	100	77	167	125	99	798	3040	355	44	106
18	218	85	100	74	160	109	97	861	2900	333	47	110
19	184	75	102	73	162	105	94	919	2460	317	50	151
20	164	81	107	70	180	101	92	833	2050	341	49	240
21	148	83	110	66	162	98	94	828	1900	331	48	221
22	160	79	106	67	130	111	97	847	2000	351	44	208
23	174	88	100	70	103	113	92	743	1800	324	39	200
24	169	95	105	74	80	106	96	660	1420	278	41	190
25	163	91	109	78	86	101	109	587	1150	251	47	174
26	159	86	102	86	85	93	117	530	1190	224	52	159
27	156	83	97	90	80	86	99	508	1220	187	56	155
28	170	89	91	87	75	85	102	476	1460	149	53	155
29	169	95	85	84	---	86	136	468	1610	124	52	213
30	149	100	72	91	---	81	144	501	1060	113	46	195
31	143	---	60	97	---	92	---	558	---	102	44	---
TOTAL	4228	3081	2991	2263	3098	3452	2993	18773	47768	16968	1613	3538
MEAN	136	103	96.5	73.0	111	111	99.8	606	1592	547	52.0	118
MAX	218	148	110	97	180	206	144	1450	3040	1080	97	240
MIN	62	75	60	61	68	79	82	124	668	102	39	40
AC-FT	8390	6110	5930	4490	6140	6850	5940	37240	94750	33660	3200	7020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	102	94.4	78.6	67.8	81.9	102	133	399	589	168	57.0	86.1
MAX	156	111	96.5	109	131	185	195	891	1592	547	117	132
(WY)	1985	1985	1995	1990	1986	1994	1994	1984	1995	1995	1993	1987
MIN	49.9	59.4	54.2	48.4	36.7	70.3	72.0	98.4	90.6	20.1	15.6	33.3
(WY)	1989	1989	1986	1989	1989	1992	1989	1989	1994	1988	1988	1988

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1984 - 1995
ANNUAL TOTAL	45162	110766	--
ANNUAL MEAN	124	303	154
HIGHEST ANNUAL MEAN	--	--	303
LOWEST ANNUAL MEAN	--	--	71.8
HIGHEST DAILY MEAN	1080	3040	3040
LOWEST DAILY MEAN	15	39	8.4
ANNUAL SEVEN-DAY MINIMUM	19	45	10
INSTANTANEOUS PEAK FLOW	--	3330	3330a
INSTANTANEOUS PEAK STAGE	--	7.30	7.65b
ANNUAL RUNOFF (AC-FT)	89580	219700	111500
10 PERCENT EXCEEDS	290	911	347
50 PERCENT EXCEEDS	90	103	91
90 PERCENT EXCEEDS	26	61	44

a Gage height, 7.30 ft.

b From floodmarks, backwater from ice.

YELLOWSTONE RIVER BASIN

06306300 TONGUE RIVER AT STATE LINE, NEAR DECKER, MT

LOCATION.--Lat 45°00'32", long 106°50'08", in NW¹/₄ NW¹/₄ NE¹/₄ sec.33, T.9 S., R.40 E., Big Horn County, Hydrologic Unit 10090101, on left bank 1 mi north of Wyoming-Montana State line, 1.4 mi southeast of Decker, 1.6 mi upstream from Badger Creek, and at river mile 200.9.

DRAINAGE AREA.--1,477 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1960 to current year. Records published as "near Decker" May 1928 to September 1938, not equivalent owing to intervening drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,429.14 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by many small reservoirs in Wyoming, combined capacity, about 15,000 acre-ft. Diversions for irrigation of about 64,300 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	273	e250	e100	e190	e90	214	449	1520	1770	325	156
2	158	293	e240	e90	e190	e100	204	394	1780	1600	319	165
3	195	277	e200	e80	e180	e120	207	362	2130	1580	281	173
4	241	257	e170	e90	e170	e120	199	330	2500	1870	270	161
5	236	237	e160	e100	e160	e110	196	312	2820	1740	265	162
6	258	264	e160	e110	e150	e100	209	306	3260	1510	275	169
7	372	258	e170	e120	e140	e110	213	335	3730	1520	278	165
8	323	262	e170	e130	e150	e150	240	401	3600	1600	259	185
9	273	253	e170	e140	e170	e200	292	969	3300	1540	237	226
10	255	236	e170	e160	e150	e250	266	2430	2850	1350	242	257
11	248	253	e180	e170	e130	e300	229	1800	2500	1280	238	238
12	247	245	e190	e180	e100	e400	220	1400	2420	1260	234	205
13	244	249	e200	e180	e90	e800	235	1500	2700	1240	238	200
14	243	252	e190	e190	e90	e600	232	1420	3390	1110	230	193
15	251	e220	e170	e180	e100	e450	272	1660	4040	1000	228	196
16	345	e200	e180	e170	e120	e380	250	1610	4610	891	211	191
17	453	e190	e190	e160	e150	390	249	1600	5080	784	195	217
18	456	e190	e200	e150	e170	340	245	1630	5100	741	182	222
19	419	e180	e210	e160	e180	296	245	1740	4450	697	189	233
20	357	e200	e220	e150	e200	274	236	1680	3850	715	194	321
21	322	e190	e260	e150	e220	251	239	1640	3440	722	189	415
22	308	e180	e240	e140	e210	251	242	1700	3380	730	179	390
23	324	e190	e230	e150	e200	262	238	1580	3260	714	168	381
24	308	e210	e240	e160	e210	243	244	1390	2740	639	162	379
25	302	e200	e240	e170	e220	240	241	1260	2310	581	186	359
26	295	e200	e250	e170	e190	228	279	1150	2200	541	221	347
27	292	e190	e240	e180	e150	213	266	1090	2160	486	214	326
28	312	e180	e230	e170	e120	208	249	1030	2260	429	195	310
29	328	e190	e200	e150	---	205	283	1020	2590	380	178	306
30	283	e200	e140	e160	---	197	342	1100	2100	344	171	361
31	266	---	e90	e170	---	198	---	1280	---	328	156	---
TOTAL	9063	6719	6150	4580	4500	8076	7276	36568	92070	31692	6909	7609
MEAN	292	224	198	148	161	261	243	1180	3069	1022	223	254
MAX	456	293	260	190	220	800	342	2430	5100	1870	325	415
MIN	149	180	90	80	90	90	196	306	1520	328	156	156
AC-FT	17980	13330	12200	9080	8930	16020	14430	72530	182600	62860	13700	15090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1995, BY WATER YEAR (WY)

MEAN	256	226	182	182	237	315	366	1176	1718	491	178	223
MAX	403	324	271	330	672	855	676	3283	3570	1674	475	615
(WY)	1969	1974	1976	1974	1971	1972	1977	1978	1978	1975	1968	1968
MIN	116	133	102	95.9	84.5	129	124	439	342	87.5	16.5	74.2
(WY)	1961	1989	1985	1985	1989	1961	1961	1989	1966	1961	1961	1966

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1961 - 1995
ANNUAL TOTAL	127437	221212	---
ANNUAL MEAN	349	606	462
HIGHEST ANNUAL MEAN	---	---	862
LOWEST ANNUAL MEAN	---	---	187
HIGHEST DAILY MEAN	2200	5100	15400
LOWEST DAILY MEAN	71	80	5.4
ANNUAL SEVEN-DAY MINIMUM	78	94	7.2
INSTANTANEOUS PEAK FLOW	---	5470	17500
INSTANTANEOUS PEAK STAGE	---	9.40	14.25
INSTANTANEOUS LOW FLOW	---	---	3.0
ANNUAL RUNOFF (AC-FT)	252800	438800	334900
10 PERCENT EXCEEDS	812	1690	1110
50 PERCENT EXCEEDS	230	242	240
90 PERCENT EXCEEDS	101	150	120

e Estimated.

YELLOWSTONE RIVER BASIN

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06306300 TONGUE RIVER AT STATE LINE, NEAR DECKER, MT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1965 to September 1976, November 1980 to December 1986.

WATER TEMPERATURE: October 1965 to September 1976.

REMARKS.--Unpublished records for many days of instantaneous water temperature and specific conductance are available in files of the Montana District office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (water years 1966-76, 1981-87): Maximum daily, 1,490 microsiemens per centimeter ($\mu\text{S}/\text{cm}$) at 25.0°C, Aug. 12, 1966, Jan. 11, 1972; minimum daily, 192 microsiemens per centimeter ($\mu\text{S}/\text{cm}$) at 25.0°C, June 7, 1976.

WATER TEMPERATURE (water years 1966-76): Maximum, 30.5°C, July 16, 1966; minimum, 0.0°C on many days during winter.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
NOV												
14...	1535	252	629	0.0	2.5	--	--	--	8.7	300	59	38
JAN												
10...	1410	159	631	14.0	0.0	663	13.1	103	8.3	300	66	34
JUN												
08...	1315	3460	194	6.5	8.0	677	8.4	80	--	87	22	7.9
JUL												
26...	0845	553	430	20.5	18.5	670	7.6	93	8.5	200	44	22
DATE		SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)
NOV												
14...		29	0.7	3.0	218	140	3.0	0.3	5.0	408	0.55	278
JAN												
10...		20	0.5	2.1	230	110	2.8	0.2	7.2	380	0.52	163
JUN												
08...		4.8	0.2	1.4	80	18	1.0	<0.1	7.7	111	0.15	1030
JUL												
26...		15	0.5	1.8	160	66	2.1	0.2	7.6	255	0.35	380

YELLOWSTONE RIVER BASIN

06309200 MIDDLE FORK POWDER RIVER NEAR BARNUM, WY

LOCATION.--Lat 43°34'40", long 107°08'16", in SE¹/₄ SW¹/₄ NE¹/₄ sec.26, T.42 N., R.86 W., Washakie County, Hydrologic Unit 10090201, on left bank 1,100 ft downstream from Rock Creek and 13 mi southwest of Barnum.

DRAINAGE AREA.--45.2 mi².

PERIOD OF RECORD.--September 1961 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,220 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 1, 1970, at site 1,000 ft upstream at different datum. Oct. 1, 1970 to Aug. 17, 1987, at site 100 ft upstream at datum 6.78 ft higher (gage operated concurrently with present site Sept. 15, 1983 to Aug. 17, 1987).

REMARKS.--Estimated daily discharges: Oct. 29-31, Nov. 3-5, 8-11, 14-23, 27, 28, Dec. 30 to Feb. 18, Feb. 25 to Mar. 7, and Mar. 11-13, 30. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 20	2000	476	8.10	June 15	1630	520	8.26
June 3	2100	*1,060	*9.55	June 27	2230	256	7.27

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	12	9.9	6.4	6.4	6.4	14	28	428	69	17	8.9
2	5.3	11	9.9	6.3	6.0	6.7	14	29	598	64	16	8.8
3	5.3	11	9.9	6.3	6.2	6.7	14	31	736	63	15	9.0
4	5.9	9.3	9.6	6.2	6.6	6.9	15	33	571	59	15	9.1
5	7.6	10	9.5	6.2	6.7	7.0	17	43	509	54	16	9.7
6	12	11	9.5	6.2	7.0	7.2	23	53	456	49	15	9.4
7	13	11	9.2	6.6	6.9	7.4	33	59	384	45	14	9.3
8	11	9.3	9.1	7.4	6.6	7.4	35	87	325	42	14	10
9	10	8.9	9.1	8.0	6.3	7.4	30	96	253	39	14	10
10	9.9	9.9	8.9	8.1	6.0	7.7	30	100	221	38	14	10
11	10	10	9.3	7.5	5.5	9.8	29	128	230	38	13	9.8
12	11	11	9.5	7.1	5.4	11	27	173	270	35	13	9.7
13	11	9.9	9.5	7.0	5.6	12	35	187	344	31	13	9.5
14	11	9.2	9.1	7.4	6.0	13	41	169	379	28	12	9.4
15	13	8.5	8.8	7.0	6.2	13	38	185	403	27	12	9.3
16	14	9.5	8.7	6.5	6.3	15	37	268	346	26	12	9.3
17	13	10	8.7	6.5	6.5	13	35	323	269	25	11	9.2
18	13	9.4	8.7	6.4	6.7	13	34	342	223	24	11	9.1
19	12	9.0	7.4	6.2	7.0	13	33	347	187	24	11	9.5
20	12	9.8	7.0	6.0	7.0	14	32	372	165	24	11	10
21	12	8.8	7.2	6.2	7.0	18	31	395	153	24	11	10
22	12	8.3	7.4	6.4	6.8	24	30	358	138	27	11	10
23	12	9.0	7.8	6.4	6.6	22	30	273	126	22	11	11
24	12	9.7	8.2	6.1	6.8	19	28	224	124	21	11	11
25	12	9.5	8.2	6.4	6.8	20	28	195	106	20	11	10
26	11	9.5	8.2	6.8	6.6	19	27	185	96	19	11	10
27	13	9.2	8.2	6.6	6.4	18	28	184	117	18	10	9.9
28	14	9.0	8.2	6.0	6.2	17	28	189	121	17	9.7	9.8
29	14	10	8.2	5.7	---	16	27	219	90	17	9.4	10
30	13	10	7.6	6.2	---	14	24	274	76	16	9.1	13
31	12	---	6.7	6.5	---	14	---	353	---	17	9.0	---
TOTAL	342.3	292.7	267.2	204.6	180.1	398.6	847	5902	8444	1022	382.2	293.7
MEAN	11.0	9.76	8.62	6.60	6.43	12.9	28.2	190	281	33.0	12.3	9.79
MAX	14	12	9.9	8.1	7.0	24	41	395	736	69	17	13
MIN	5.3	8.3	6.7	5.7	5.4	6.4	14	28	76	16	9.0	8.8
AC-FT	679	581	530	406	357	791	1680	11710	16750	2030	758	583

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995		
MEAN	6.90	6.15	5.58	5.07	5.28	6.54	33.1	157	98.6	18.9	8.62	7.31																								
MAX	15.0	13.2	9.92	7.78	10.1	14.2	106	268	299	39.9	18.3	17.0																								
(WY)	1983	1983	1983	1983	1969	1972	1987	1984	1975	1975	1968	1968																								
MIN	2.45	2.00	2.75	2.48	3.74	4.05	8.00	56.2	18.1	7.26	4.34	4.16																								
(WY)	1963	1963	1962	1962	1989	1965	1970	1992	1985	1974	1966	1969																								

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1962 - 1995
ANNUAL TOTAL	6967.2	18576.4	--
ANNUAL MEAN	19.1	50.9	30.0
HIGHEST ANNUAL MEAN	--	--	50.9
LOWEST ANNUAL MEAN	--	--	13.1
HIGHEST DAILY MEAN	206	736	778
LOWEST DAILY MEAN	4.5	5.3	1.0
ANNUAL SEVEN-DAY MINIMUM	4.7	5.9	1.2
INSTANTANEOUS PEAK FLOW	--	1060	7110a
INSTANTANEOUS PEAK STAGE	--	9.55	12.60b
ANNUAL RUNOFF (AC-FT)	13820	36850	21740
10 PERCENT EXCEEDS	45	184	77
50 PERCENT EXCEEDS	7.7	11	7.0
90 PERCENT EXCEEDS	5.2	6.5	4.6

a On basis of slope-area measurement of peak flow.

b From floodmark, site and datum then in use.

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LOCATION.--Lat 44°01'40", long 107°04'49", in SW¹/₄ SE¹/₄ NW¹/₄ sec.21, T.47 N., R.85 W., Johnson County, Hydrologic Unit 10090201, on left bank 0.5 mi upstream from Dullknife Reservoir, 0.6 mi downstream from Twin Creek, 7.2 mi southwest of Hazelton, and 19 mi northwest of Mayoworth.

PERIOD OF RECORD.--September 1946 to current year. Monthly discharge only for some periods, published in WSP 1309.
REVISED RECORDS.--WSP 1279: 1947-48(M). 1949. 1950-51(M). 1952.

GAGE.--Water-stage recorder. Elevation of gage is 8,180 ft above sea level, from topographic map. Prior to Oct. 1, 1966, at site 0.7 mi downstream at different datum. Oct. 1, 1966 to Aug. 26, 1986, at site 0.1 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 23 to Nov. 5, Nov. 16 to Dec. 9, Mar. 12-17, Apr. 7-11, 14, May 5-8, 11-14, and July 23 to Aug. 10. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 190 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 3	0230	*403	*4.23	June 13	2130	248	3.94

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.7	3.0	2.5	2.4	2.3	2.3	3.0	144	51	14	5.0
2	5.4	3.8	3.0	2.4	2.4	2.3	2.3	2.9	222	46	14	5.0
3	5.7	3.5	2.8	2.4	2.4	2.3	2.3	2.9	335	45	13	4.9
4	5.5	3.2	2.7	2.4	2.4	2.3	2.3	3.4	284	47	12	5.0
5	8.9	3.3	2.5	2.3	2.4	2.3	2.5	4.0	271	44	13	5.7
6	8.0	3.5	2.6	2.3	2.4	2.2	2.8	6.8	252	37	12	4.9
7	5.2	3.5	2.6	2.3	2.4	2.1	4.2	6.4	190	38	11	4.9
8	4.6	3.6	2.6	2.3	2.4	2.0	6.0	5.9	151	34	9.9	5.1
9	4.4	3.6	2.7	2.3	2.4	2.1	13	5.5	127	31	10	7.1
10	4.1	3.6	2.9	2.5	2.4	2.1	8.5	6.4	112	29	9.2	5.8
11	4.0	3.6	2.8	2.5	2.4	2.1	6.0	8.0	119	27	11	5.4
12	4.1	3.6	2.8	2.5	2.4	2.3	3.5	10	154	27	9.6	5.3
13	4.5	3.6	2.8	2.5	2.4	2.5	3.6	14	195	27	8.7	4.9
14	4.1	3.7	2.8	2.4	2.4	2.8	4.5	20	191	24	8.2	4.7
15	4.1	3.6	2.8	2.4	2.4	3.5	4.0	28	191	24	8.0	4.4
16	5.3	3.4	2.8	2.4	2.4	4.5	3.7	48	178	24	7.7	4.2
17	5.2	3.4	2.8	2.4	2.4	3.0	3.7	61	157	22	7.5	4.2
18	5.0	3.1	2.8	2.4	2.3	2.5	3.5	79	147	21	7.1	5.0
19	4.7	3.0	2.8	2.3	2.3	2.4	3.2	90	114	26	7.2	6.8
20	4.7	2.9	2.8	2.2	2.3	2.3	3.1	95	107	50	6.9	7.0
21	5.0	2.8	2.8	2.3	2.4	2.3	3.0	109	105	25	6.6	6.0
22	4.1	2.8	2.8	2.3	2.6	2.4	2.9	99	93	23	6.4	6.5
23	3.8	2.8	2.7	2.3	2.5	2.5	2.8	66	81	21	6.5	6.2
24	4.0	2.8	2.7	2.3	2.4	2.4	2.8	55	73	17	6.4	5.9
25	4.2	2.9	2.7	2.4	2.3	2.3	2.8	49	71	17	5.9	6.8
26	4.4	2.8	2.7	2.4	2.3	2.3	2.6	47	70	16	5.9	7.1
27	4.6	2.8	2.8	2.4	2.3	2.3	2.9	47	71	16	5.4	6.4
28	4.1	2.6	2.7	2.4	2.3	2.3	3.0	51	78	16	5.6	5.7
29	3.8	2.8	2.6	2.4	---	2.3	2.9	67	73	15	5.4	5.4
30	3.5	2.9	2.6	2.4	---	2.3	2.9	104	58	16	5.0	7.4
31	3.5	---	2.6	2.4	---	2.3	---	117	---	15	5.0	---
TOTAL	146.2	97.2	85.1	73.7	66.8	75.6	113.6	1311.2	4414	871	264.1	168.7
MEAN	4.72	3.24	2.75	2.38	2.39	2.44	3.79	42.3	147	28.1	8.52	5.62
MAX	8.9	3.8	3.0	2.5	2.6	4.5	13	117	335	51	14	7.4
MIN	3.5	2.6	2.5	2.2	2.3	2.0	2.3	2.9	58	15	5.0	4.2
AC-FT	290	193	169	146	132	150	225	2600	8760	1730	524	33.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940-1999, BY WATER YEAR (WY)												
MEAN	4.33	3.48	2.80	2.28	2.12	2.21	9.11	58.1	64.1	17.3	7.03	5.01
MAX	10.4	10.1	6.96	4.50	4.00	4.99	35.7	119	178	46.8	11.8	9.74
(WY)	1983	1983	1983	1958	1958	1960	1987	1947	1967	1975	1968	1982
MIN	2.03	1.70	1.41	.80	1.00	1.19	1.09	23.4	13.2	4.88	2.85	2.47
(WY)	1961	1981	1967	1949	1959	1967	1961	1972	1960	1960	1960	1960

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR			WATER YEARS 1946 - 1995	
ANNUAL TOTAL	4032.5		7687.2			--	
ANNUAL MEAN	11.0		21.1			14.9	
HIGHEST ANNUAL MEAN	--		--			26.7 1967	
LOWEST ANNUAL MEAN	--		--			6.91 1961	
HIGHEST DAILY MEAN	145	Apr 22	335	Jun 3	354	Jun 15	1953
LOWEST DAILY MEAN	2.2	Mar 28	2.0	Mar 8	.60a	Oct 30	1960
ANNUAL SEVEN-DAY MINIMUM	2.2	Mar 28	2.1	Mar 5	.64	Apr 12	1961
INSTANTANEOUS PEAK FLOW	--	--	403	Jun 3	886b	Jun 15	1953
INSTANTANEOUS PEAK STAGE	--	--	4.23	Jun 3	6.21c	May 14	1984
ANNUAL RUNOFF (AC-FT)	8000	--	15250	--	10760	--	--
10 PERCENT EXCEEDS	29	--	68	--	42	--	--
50 PERCENT EXCEEDS	3.4	--	4.0	--	3.8	--	--
90 PERCENT EXCEEDS	2.4	--	2.3	--	1.9	--	--

a May have been less during winter months of water years 1947 and 1948.

b Gage height, 4.34 ft, site and datum then in use, from rating curve extended above 110 ft³/s, on basis of slope-area measurement of peak flow.

c Backwater from ice, site and datum then in use.

YELLOWSTONE RIVER BASIN

06311400 NORTH FORK POWDER RIVER BELOW PASS CREEK, NEAR MAYOWORTH, WY

LOCATION.--Lat 43°54'41", long 106°53'20", in NW¹/₄ NE¹/₄ SE¹/₄ sec.36, T.46 N., R.84 W., Johnson County, Hydrologic Unit 10090201, on left bank 0.8 mi downstream from Pass Creek, 1.2 mi upstream from Hat Ranch, 7.2 mi northwest of Mayoworth, and 13 mi downstream from Dullknife Reservoir.

DRAINAGE AREA.--100 mi².

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,700 ft above sea level, from topographic map. Prior to Sept. 15, 1983, at site 60 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Dec. 31 to Jan. 3, Jan. 22, Feb. 11-15, Feb. 28 to Mar. 2, Mar. 6, 7, and July 30 to Aug. 11. Records good except those for estimated daily discharges, which are poor. Some regulation for irrigation by Dullknife Reservoir 13 mi upstream, capacity, 4,350 acre-ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	21	19	16	18	17	18	19	72	93	35	52
2	23	21	18	15	19	18	18	18	98	88	35	52
3	23	21	18	15	19	18	18	18	176	84	35	54
4	23	20	18	16	19	20	18	18	360	84	35	55
5	22	20	18	18	19	19	18	18	379	83	35	55
6	22	20	18	18	19	18	19	19	378	80	35	55
7	22	20	18	18	19	18	24	22	290	76	35	57
8	21	20	17	20	19	18	26	31	243	72	36	58
9	21	20	16	19	19	18	24	27	219	55	37	54
10	21	20	16	19	19	18	21	36	224	52	38	53
11	21	20	19	19	17	20	21	72	222	50	40	53
12	22	20	20	18	16	20	20	90	216	50	45	53
13	22	20	19	18	15	18	20	76	210	49	46	53
14	22	19	18	18	16	18	24	49	221	40	46	53
15	22	19	18	19	17	18	22	57	272	42	46	54
16	24	19	18	19	18	20	21	98	261	46	46	53
17	22	20	18	18	20	20	20	102	234	45	46	48
18	22	18	18	18	20	19	20	94	227	43	46	46
19	22	18	18	18	19	19	19	92	186	43	46	46
20	22	20	18	18	19	19	19	84	139	68	47	47
21	22	20	17	18	19	19	19	86	142	59	46	46
22	22	18	17	16	19	20	18	80	139	48	46	45
23	22	18	17	17	19	20	18	63	129	44	46	43
24	21	20	18	19	19	20	18	56	120	40	46	33
25	21	20	17	20	19	19	18	55	99	38	46	32
26	21	20	17	19	19	19	18	57	97	36	46	31
27	21	19	17	19	19	19	18	58	103	35	50	30
28	21	18	17	19	18	18	18	55	114	32	52	30
29	21	18	17	18	---	18	19	54	115	32	52	31
30	21	19	18	19	---	19	19	59	101	34	52	30
31	21	---	17	19	---	18	---	68	---	34	52	---
TOTAL	676	586	549	560	517	582	593	1731	5786	1675	1344	1402
MEAN	21.8	19.5	17.7	18.1	18.5	18.8	19.8	55.8	193	54.0	43.4	46.7
MAX	24	21	20	20	20	20	26	102	379	93	52	58
MIN	21	18	16	15	15	17	18	18	72	32	35	30
AC-FT	1340	1160	1090	1110	1030	1150	1180	3430	11480	3320	2670	2780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1995, BY WATER YEAR (WY)

	MEAN	21.5	18.9	18.5	18.0	17.7	17.6	26.3	75.1	89.6	46.5	38.0	30.7
MAX	31.5	21.9	23.1	20.2	20.8	21.0	47.9	176	193	80.5	49.9	46.7	
(WY)	1983	1983	1977	1977	1980	1980	1977	1978	1995	1975	1975	1995	
MIN	16.1	15.8	14.9	15.1	14.2	14.6	16.9	25.5	39.7	30.8	26.1	20.0	
(WY)	1990	1990	1991	1991	1991	1991	1993	1980	1994	1977	1985	1974	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1974 - 1995
ANNUAL TOTAL	11361	16001	--
ANNUAL MEAN	31.1	43.8	34.9
HIGHEST ANNUAL MEAN	--	--	51.6
LOWEST ANNUAL MEAN	--	--	25.4
HIGHEST DAILY MEAN	134	May 13	379
LOWEST DAILY MEAN	16	Jan 7	15
ANNUAL SEVEN-DAY MINIMUM	17	Dec 21	16
INSTANTANEOUS PEAK FLOW	--	--	455
INSTANTANEOUS PEAK STAGE	--	--	5.77
ANNUAL RUNOFF (AC-FT)	22530	31740	25300
10 PERCENT EXCEEDS	54	87	61
50 PERCENT EXCEEDS	22	21	21
90 PERCENT EXCEEDS	18	18	17

a From rating curve extended above 400 ft³/s, on basis of slope-area measurement of peak flow.

b From floodmarks.

YELLOWSTONE RIVER BASIN

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06313400 SALT CREEK NEAR SUSSEX, WY

LOCATION.--Lat 43°37'19", long 106°22'04", in NE¹/₄ NE¹/₄ SE¹/₄ sec.8, T.42 N., R.79 W., Johnson County, Hydrologic Unit 10090204, on left bank 200 ft upstream from bridge on West Sussex Dugout oil field road, 6.3 mi southwest of Sussex, and 12.6 mi upstream from mouth.

DRAINAGE AREA.--769 mi².

PERIOD OF RECORD.--Water years 1949, 1952, 1968 to 1981, October 1982 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
OCT 28...	0930	15	6030	8.2	5.5	10.5	640	9.3	90
JAN 25...	0915	7.3	7280	8.3	0.0	2.5	648	11.3	94
MAY 23...	0845	42	8870	8.1	8.5	7.0	635	9.2	98
AUG 03...	0905	6.4	6930	8.1	18.0	20.0	650	7.1	90

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT 28...	1100	240	110	1100	15	5.0	318	2000	760
JAN 25...	1200	280	130	1200	15	30	384	2300	950
MAY 23...	1700	260	260	1700	18	23	373	4100	630
AUG 03...	1100	230	120	1200	16	27	230	2200	930

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 28...	1.7	19	4580	4430	6.23	185	<9	570
JAN 25...	2.6	27	5470	5150	7.44	108	30	320
MAY 23...	1.2	12	7740	7210	10.5	878	20	280
AUG 03...	2.4	19	5160	4870	7.02	89.2	<10	60

YELLOWSTONE RIVER BASIN

06313500 POWDER RIVER AT SUSSEX, WY

LOCATION.--Lat 43°41'44", long 106°18'24", in SW¹/₄ SW¹/₄ NW¹/₄ sec.13, T.43 N., R.79 W., Johnson County, Hydrologic Unit 10090202, on left bank 0.5 mi upstream from bridge on State Highway 192, 0.6 mi west of Sussex, and 2.7 mi downstream from Salt Creek.

DRAINAGE AREA.--3,090 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to June 1940, February 1950 to September 1957, October 1977 to September 1984, October 1985 to current year.

REVISED RECORDS.--WDR WY-80-1: 1979(M), 1979.

GAGE.--Water-stage recorder. Datum of gage is 4,365.28 ft above sea level. Prior to June 30, 1940, nonrecording gage about 500 ft downstream from State Highway 192 at datum 4,363.23 ft. Feb. 8, 1950, to Sept. 30, 1957, water-stage recorder about 600 ft downstream from State Highway 192 at datum 4,362.16 ft. October 1977, to Apr. 8, 1983, water-stage recorder 10 ft downstream from State Highway 192 at datum 4,362.95 ft. Apr. 9, 1983 to Oct. 21, 1987, at site 300 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Nov. 17 to Mar. 6. Records good except those for estimated daily discharges, which are poor. Numerous small reservoirs and diversions for irrigation of about 17,000 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 30, 1923, reached an elevation of 4,375.75 ft at site about 600 ft downstream from State Highway 192, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 7	0800	2,200	4.71	May 14	0600	2,210	4.54
Oct. 17	0500	*11,100	11.29	June 3	1130	2,980	5.40
May 9	1230	10,800	*11.98	June 10	0800	4,970	7.19

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	164	170	135	170	170	169	351	1290	542	51	10
2	38	179	160	130	180	150	160	296	1360	525	44	9.3
3	314	181	150	125	180	135	162	264	2310	471	35	8.2
4	289	160	140	120	180	150	158	250	2280	499	30	8.3
5	594	160	150	130	180	170	159	241	2080	453	26	7.5
6	703	184	160	140	180	180	163	253	1900	402	23	6.4
7	1600	258	160	150	170	201	170	300	1620	362	21	6.5
8	326	272	160	160	165	173	194	1630	1970	330	18	6.0
9	179	273	160	170	160	198	220	8820	3900	308	19	5.7
10	140	238	165	190	155	198	214	3430	4120	281	20	5.4
11	120	249	170	190	135	199	203	1540	2280	250	18	5.3
12	110	254	180	180	120	261	203	1350	1830	225	15	5.1
13	104	255	180	170	115	390	201	1600	1570	212	14	5.0
14	101	258	180	165	125	305	196	2060	1450	273	12	34
15	110	210	170	165	150	246	222	1600	1370	266	11	51
16	2550	170	180	155	180	225	232	1360	1390	206	11	55
17	9150	140	200	140	210	225	254	1480	1280	180	9.5	63
18	4530	110	205	125	230	203	270	1390	1170	168	8.6	64
19	1440	90	210	130	250	191	276	1410	1030	196	8.9	89
20	761	110	210	140	285	186	244	1400	889	222	8.7	142
21	484	100	220	130	320	179	231	1390	777	223	8.1	218
22	380	95	215	120	300	175	244	1350	733	209	8.0	203
23	311	110	210	115	280	198	237	1350	663	278	7.6	168
24	258	140	200	125	310	189	241	1230	607	178	8.3	156
25	230	150	185	135	330	185	221	1180	590	141	8.6	150
26	214	140	180	145	270	172	246	1310	551	107	55	142
27	201	125	170	155	220	165	242	1240	513	81	66	130
28	187	115	160	150	190	163	223	1170	1110	68	38	122
29	189	130	160	140	---	166	228	1570	1040	63	22	121
30	180	150	155	150	---	163	287	1300	638	57	14	380
31	171	---	145	160	---	156	---	1240	---	49	11	---
TOTAL	25988	5170	5460	4535	5740	6067	6470	45355	44311	7825	650.3	2376.7
MEAN	838	172	176	146	205	196	216	1463	1477	252	21.0	79.2
MAX	9150	273	220	190	330	390	287	8820	4120	542	66	380
MIN	24	90	140	115	115	135	158	241	513	49	7.6	5.0
AC-FT	51550	10250	10830	9000	11390	12030	12830	89960	87890	15520	1290	4710

YELLOWSTONE RIVER BASIN

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06313500 POWDER RIVER AT SUSSEX, WY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

MEAN	138	125	112	112	168	272	266	579	369	135	56.5	70.8
MAX	838	202	176	177	335	701	553	2553	1477	374	125	448
(WY)	1995	1987	1995	1983	1980	1987	1987	1978	1995	1978	1983	1982
MIN	24.2	77.7	79.5	58.6	69.4	110	136	72.0	22.2	29.2	3.54	4.90
(WY)	1957	1953	1991	1940	1939	1940	1953	1992	1954	1980	1939	1939

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1938 - 1995	
ANNUAL TOTAL	76656.4		159948.0		--	
ANNUAL MEAN	210		438		203	
HIGHEST ANNUAL MEAN	--		--		486	
LOWEST ANNUAL MEAN	--		--		115	
HIGHEST DAILY MEAN	9150	Oct 17	9150	Oct 17	14100	May 23 1952
LOWEST DAILY MEAN	2.4	Sep 10	5.0	Sep 13	1.5	Aug 25 1939
ANNUAL SEVEN-DAY MINIMUM	3.6	Sep 6	5.6	Sep 7	2.6	Aug 23 1939
INSTANTANEOUS PEAK FLOW	--		11100a	Oct 17	32500b	May 23 1952
INSTANTANEOUS PEAK STAGE	--		11.98	May 9	4374.76c	May 23 1952
ANNUAL RUNOFF (AC-FT)	152000		317300		147300	
10 PERCENT EXCEEDS	324		1350		413	
50 PERCENT EXCEEDS	125		180		121	
90 PERCENT EXCEEDS	12		24		25	

a Gage height, 11.29 ft.

b From rating curve extended above 1,500 ft³/s on basis of slope-area measurement of peak flow.

c From floodmarks, site and datum then in use.

YELLOWSTONE RIVER BASIN

06313500 POWDER RIVER AT SUSSEX, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-53, 1967-68, 1976 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1983 to September 1984.

WATER TEMPERATURE: October 1982 to September 1984.

SUSPENDED-SEDIMENT DISCHARGE: May 1983 to September 1984.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00301)	HARD- NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
OCT												
28...	1130	186	2370	8.1	6.5	12.0	640	9.5	93	660	170	57
DEC												
06...	1430	92	2400	7.8	0.0	1.5	641	10.3	85	680	170	62
JAN												
25...	1225	134	2310	8.4	0.0	9.0	65	12.4	100	630	160	56
MAR												
16...	0850	228	2220	8.4	7.0	8.0	655	9.7	94	570	140	53
APR												
24...	0830	249	1920	8.1	6.0	6.5	650	9.1	86	510	130	46
MAY												
23...	1115	1410	1220	8.0	7.0	11.5	635	9.9	98	320	80	30
JUN												
27...	1015	520	1570	7.9	17.5	20.0	650	7.8	96	420	99	43
AUG												
03...	1105	39	3750	8.1	20.0	27.0	652	7.2	94	920	220	88
28...	1030	38	3230	8.0	20.5	32.0	654	6.4	84	790	190	77
SEP												
28...	1100	121	1820	8.3	11.5	24.0	648	8.7	95	530	130	51
DATE		SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)
OCT												
28...	260	4	6.8	222	890	130	0.6	10	1760	1660	2.39	
DEC												
06...	290	5	7.0	241	840	170	0.6	11	1830	1700	2.49	
JAN												
25...	240	4	6.0	242	760	160	0.6	10	1650	1540	2.24	
MAR												
16...	270	5	6.4	214	810	110	0.6	9.1	1630	1530	2.22	
APR												
24...	240	5	5.5	180	720	97	0.6	8.3	1440	1360	1.96	
MAY												
23...	140	3	3.0	117	450	35	0.4	8.3	876	818	1.19	
JUN												
27...	170	4	4.0	168	560	59	0.4	8.9	1100	1050	1.50	
AUG												
03...	500	7	12	208	1400	280	0.8	11	2900	2640	3.94	
28...	440	7	10	181	1400	160	0.7	8.1	2500	2390	3.40	
SEP												
28...	190	4	5.2	202	610	100	0.4	8.0	1310	1220	1.78	

YELLOWSTONE RIVER BASIN

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06313500 POWDER RIVER AT SUSSEX, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
OCT 28...	884	<10	<1	32	<0.5	260	2.0	<5	<3	<10	6
DEC 06...	455	--	--	--	--	--	--	--	--	--	12
JAN 25...	597	<10	<1	33	<2	220	10	<1	<9	2	14
MAR 16...	1000	--	--	--	--	--	--	--	--	--	<9
APR 24...	968	--	--	--	--	--	--	--	--	--	<9
MAY 23...	3330	20	<1	24	<0.5	100	<1.0	<1	<3	2	13
JUN 27...	1540	--	--	--	--	--	--	--	--	--	7
AUG 03...	305	30	<1	64	<1	40	3.0	<1	<6	1	<6
28...	257	--	--	--	--	--	--	--	--	--	10
SEP 28...	428	--	--	--	--	--	--	--	--	--	9

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 28...	30	100	61	<0.1	10	<10	2	<1.0	1900	<6	<3
DEC 06...	--	--	92	--	--	--	--	--	--	--	--
JAN 25...	<1	85	56	<0.1	<30	40	3	<3.0	1900	<18	<9
MAR 16...	--	--	12	--	--	--	--	--	--	--	--
APR 24...	--	--	6	--	--	--	--	--	--	--	--
MAY 23...	<1	45	8	<0.1	<10	<10	2	2.0	780	<6	<3
JUN 27...	--	--	7	--	--	--	--	--	--	--	--
AUG 03...	<1	180	56	<0.1	<20	<20	3	<2.0	2900	<12	<6
28...	--	--	17	--	--	--	--	--	--	--	--
SEP 28...	--	--	5	--	--	--	--	--	--	--	--

YELLOWSTONE RIVER BASIN

06316400 CRAZY WOMAN CREEK AT UPPER STATION, NEAR ARVADA, WY

LOCATION.--Lat 44°29'28", long 106°10'38", in NE¹/₄ SW¹/₄ SW¹/₄ sec.7, T.52 N., R.77 W., Johnson County, Hydrologic Unit 10090205, 1.1 mi upstream from Jewell Draw, 5.0 mi upstream from mouth, and 11 mi south of Arvada.

DRAINAGE AREA.--945 mi², approximately.

PERIOD OF RECORD.--Water years 1967 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	SEDI- MENT, DIS- SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- SUS- PENDED (T/DAY) (80155)
APR 24...	1510	19	1730	8.2	6.5	6.5	660	9.2	87	140	7.2
MAY 10...	1735	105	1980	8.0	14.5	18.5	745	7.9	80	1400	397
JUN 20...	1045	657	348	8.2	18.0	15.0	665	7.3	89	1050	1850

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LOCATION.--Lat 44°39'00", long 106°07'37", in SW¹/₄ SE¹/₄ sec.16, T.54 N., R.77 W., Sheridan County, Hydrologic Unit 10090202, on right bank 0.1 mi downstream from bridge on county road, 0.2 mi southeast of Arvada, and 0.2 mi upstream from Wild Horse Creek.

DRAINAGE AREA.--6,050 mi², approximately.

PERIOD OF RECORD.--May 1919 to current year (no winter records in water years 1919-30, 1934). Records for Feb. 16-23, 1930, published in WSP 701, are unreliable and should not be used.

REVISED RECORDS.--WSP 1509: 1921(M), 1923(M), 1924-26, 1927-28(M), 1929, 1930(M), 1931, 1932(M), 1933, 1934(M), 1935-36. See PERIOD OF RECORD.

GAGE.--Water-stage recorder. Elevation of gage is 3,620 ft above sea level, from topographic map. Prior to Oct. 24, 1938, non-contributing gage at bridge 0.2 mi upstream at datum 3,621.87 ft. Oct. 24, 1938 to Apr. 27, 1983, at site 0.7 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 15,17,18, Nov. 20 to Mar. 11, Mar 13, and July 13 to Aug. 16. Records fair except those for the period Jun. 4-20 and estimated daily discharges, which are poor. Numerous small reservoirs and diversions for irrigation of about 29,000 acres upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,800 ft³/s and maximum (*):

Date		Time	Discharge (ft ³ /s)	Gage height (ft)	Date		Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 18		2400	9,480	7.95	June 11		1330	8,690	7.63
May 11		0430	*10,800	*8.46					

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	263	170	190	200	285	210	337	1600	1440	140	31
2	26	244	200	180	220	265	226	339	1600	1170	150	29
3	28	225	210	170	240	225	233	464	1730	1050	130	27
4	33	226	200	165	260	210	216	404	2790	985	115	23
5	98	232	180	155	265	200	192	363	4270	886	105	21
6	404	222	190	160	265	220	184	342	4320	880	97	18
7	592	197	200	175	260	230	183	320	4400	811	94	17
8	1590	195	210	190	250	250	188	382	4410	700	89	16
9	950	218	210	205	250	260	209	1040	4420	628	83	18
10	411	296	210	220	240	270	222	6640	6970	603	80	19
11	259	296	220	240	220	310	248	7090	8230	601	91	19
12	210	278	220	245	200	352	257	2240	5140	576	80	17
13	187	270	230	230	180	390	256	1730	3870	520	70	15
14	168	287	235	220	160	360	246	1840	3000	460	62	52
15	165	278	230	210	180	457	266	2520	2550	500	60	53
16	275	287	220	200	210	447	256	2220	2470	470	56	47
17	1010	280	230	190	255	349	259	1710	2430	420	53	46
18	6340	200	260	175	310	311	308	1890	2360	370	48	48
19	5980	87	270	160	355	322	299	1890	2170	350	45	51
20	2270	74	280	165	390	299	323	1900	2090	370	43	54
21	1290	88	280	175	430	282	340	1880	1830	390	39	62
22	920	80	285	160	490	269	326	1830	1640	420	35	72
23	719	100	280	140	450	266	300	1840	1520	400	32	84
24	551	120	270	130	420	263	294	1860	1410	500	28	147
25	451	150	255	120	470	264	311	1750	1280	450	28	146
26	383	180	240	130	500	267	331	1700	1190	330	42	129
27	337	170	230	140	410	250	304	1630	1170	250	61	119
28	312	160	220	160	330	253	295	1690	1190	215	55	117
29	299	150	210	180	---	232	355	1580	1330	180	30	113
30	279	140	205	170	---	246	353	1820	1890	160	23	145
31	266	---	200	180	---	222	---	1770	---	150	22	---
TOTAL	26824	5993	7050	5530	8410	8826	7990	55011	85270	17235	2086	1755
MEAN	865	200	227	178	300	285	266	1775	2842	556	67.3	58.5
MAX	6340	296	285	245	500	457	355	7090	8230	1440	150	147
MIN	21	74	170	120	160	200	183	320	1170	150	22	15
AC-FT	53210	11890	13980	10970	16680	17510	15850	109100	169100	34190	4140	3480

	MEAN	133	124	98.0	88.0	167	396	355	734	777	266	96.8	74.3
MAX	871	303	290	242	567	953	1107	4025	3319	1703	861	451	
(WY)	1995	1974	1974	1974	1972	1978	1941	1978	1962	1937	1941	1982	
MIN	.000	11.4	23.0	15.0	10.0	144	99.0	51.3	30.6	15.8	.000	.000	
(WY)	1961	1936	1950	1933	1933	1961	1961	1936	1954	1974	1932	1932	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR			FOR 1995 WATER YEAR			WATER YEARS 1931 - 1995		
ANNUAL TOTAL	93444.6			231980			--		
ANNUAL MEAN	256			636			277		
HIGHEST ANNUAL MEAN	--			--			735		
LOWEST ANNUAL MEAN	--			--			70.3		
HIGHEST DAILY MEAN	6340	Oct 18		8230	Jun 11		22600	May 20	1978
LOWEST DAILY MEAN	2.1	Sep 14		15	Sep 13		.00	Jul 13	1931
ANNUAL SEVEN-DAY MINIMUM	2.8	Sep 9		17	Sep 7		.00	Jul 24	1932
INSTANTANEOUS PEAK FLOW	--			10800	May 11		100000a	Sep 29	1923
INSTANTANEOUS PEAK STAGE	--			8.46	May 11		23.70b	Sep 29	1923
ANNUAL RUNOFF (AC-FT)	185300			460100			201000		
10 PERCENT EXCEEDS	443			1790			590		
50 PERCENT EXCEEDS	155			250			127		
90 PERCENT EXCEEDS	17			54			15		

a About, from rating curve extended above 20,000 ft³/s.

b From floodmarks, site and datum then in use.

YELLOWSTONE RIVER BASIN

06317000 POWDER RIVER AT ARVADA, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1946-57, 1968 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: March 1949 to September 1957, October 1967 to September 1978.

SUSPENDED-SEDIMENT DISCHARGE: April 1946 to September 1957, October 1967 to September 1971, January 1975 to September 1978, April 1983 to September 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
OCT 13...	1445	189	1640	8.0	8.5	10.0	664	10.1	100
MAR 16...	1730	406	2210	8.2	9.0	10.0	673	9.7	96
JUN 20...	1445	2030	1020	8.0	23.0	25.0	666	6.8	91
AUG 30...	1630	22	2750	8.1	28.5	30.0	672	6.6	101
DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT 13...	500	130	42	200	4	6.7	128	680	54
MAR 16...	620	160	54	260	5	6.8	169	870	100
JUN 20...	300	72	28	100	3	3.6	111	360	22
AUG 30...	1200	280	110	370	5	2.3	191	1500	180
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	
OCT 13...	0.6	5.8	--	1200	1.63	610	--	--	
MAR 16...	0.5	7.6	1670	1560	2.27	1830	80	10	
JUN 20...	0.3	9.7	693	662	0.94	3800	18	5	
AUG 30...	0.5	7.2	2840	2560	3.86	169	<9	8	

YELLOWSTONE RIVER BASIN

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06320000 ROCK CREEK NEAR BUFFALO, WY

LOCATION.--Lat 44°27'22", long 106°52'42", in NW¹/₄ NW¹/₄ NW¹/₄ sec.29, T.52 N., R.83 W., Johnson County, Hydrologic Unit 10090206, on left bank 300 ft downstream from confluence of North and South Forks and 11.5 mi northwest of Buffalo.

DRAINAGE AREA.--60.0 mi².

PERIOD OF RECORD.--April to August 1941, April to December 1942, May 1943 to November 1944, April 1945 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1309.

GAGE.--Water-stage recorder. Elevation of gage is 5,280 ft above sea level, from topographic map. Prior to Jan. 8, 1944, nonrecording gages 600 ft upstream on North and South Forks at different datums. Jan. 8, 1944, to Sept. 30, 1952, water-stage recorder at present site at datum 0.72 ft lower.

REMARKS.--No estimated daily discharges. Records good. Water is imported into drainage basin upstream from station from South Piney Creek. Diversions for irrigation of about 250 acres upstream from station.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1941, about 8.05 ft, probably during 1944.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	4.9	7.2	179	133	32	26
2	---	---	---	---	---	---	5.7	10	267	127	30	24
3	---	---	---	---	---	---	5.3	11	592	136	30	24
4	---	---	---	---	---	---	3.1	10	464	126	38	23
5	---	---	---	---	---	---	4.7	14	524	116	44	23
6	---	---	---	---	---	---	4.7	27	567	109	44	23
7	---	---	---	---	---	---	5.0	32	375	124	40	24
8	---	---	---	---	---	---	7.1	47	327	106	38	27
9	---	---	---	---	---	---	5.6	154	264	98	38	29
10	---	---	---	---	---	---	4.1	115	241	89	37	27
11	---	---	---	---	---	---	7.3	116	258	85	37	26
12	---	---	---	---	---	---	4.7	123	327	81	37	25
13	---	---	---	---	---	---	5.5	107	532	77	36	24
14	---	---	---	---	---	---	9.3	84	601	70	36	23
15	---	---	---	---	---	---	5.6	110	706	70	35	19
16	---	---	---	---	---	---	5.5	149	692	66	34	19
17	---	---	---	---	---	---	5.0	155	538	61	34	23
18	---	---	---	---	---	---	4.7	183	473	58	34	23
19	---	---	---	---	---	---	4.3	194	317	66	32	25
20	---	---	---	---	---	---	4.8	162	301	104	22	27
21	---	---	---	---	---	---	5.0	181	308	66	22	26
22	---	---	---	---	---	---	4.6	168	258	70	24	25
23	---	---	---	---	---	---	5.0	134	211	60	24	20
24	---	---	---	---	---	---	5.9	116	187	55	26	19
25	---	---	---	---	---	---	8.7	106	176	51	28	18
26	---	---	---	---	---	---	6.9	106	176	47	31	18
27	---	---	---	---	---	---	7.8	112	191	43	28	18
28	---	---	---	---	---	---	8.7	112	198	41	27	17
29	---	---	---	---	---	---	8.0	112	162	40	27	17
30	---	---	---	---	---	---	8.1	133	136	37	26	30
31	---	---	---	---	---	---	---	160	---	34	26	---
TOTAL	---	---	---	---	---	---	175.6	3250.2	10548	2446	997	692
MEAN	---	---	---	---	---	---	5.85	105	352	78.9	32.2	23.1
MAX	---	---	---	---	---	---	9.3	194	706	136	44	30
MIN	---	---	---	---	---	---	3.1	7.2	136	34	22	17
AC-FT	---	---	---	---	---	---	348	6450	20920	4850	1980	1370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1971, BY WATER YEAR (WY)

	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
MEAN	9.05	7.11	5.57	4.58	4.43	4.81	13.6	90.1	155	68.1	42.9	15.6															
MAX	20.1	12.7	8.75	6.40	6.57	7.13	37.3	189	309	99.5	69.2	43.4															
(WY)	1969	1969	1969	1965	1969	1960	1962	1947	1967	1947	1968	1968															
MIN	3.44	2.74	3.08	1.88	2.27	2.22	4.63	27.1	37.8	28.3	4.22	1.57															
(WY)	1955	1955	1967	1950	1957	1966	1966	1960	1954	1958	1954	1954															

SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1945 - 1971**
ANNUAL MEAN	--	34.7
HIGHEST ANNUAL MEAN	--	54.7
LOWEST ANNUAL MEAN	--	16.1
HIGHEST DAILY MEAN	706	945
LOWEST DAILY MEAN	3.1	.50
ANNUAL SEVEN-DAY MINIMUM	--	.59
INSTANTANEOUS PEAK FLOW	1080	1860a
INSTANTANEOUS PEAK STAGE	7.13	7.98
ANNUAL RUNOFF (AC-FT)	--	25120
10 PERCENT EXCEEDS	--	102
50 PERCENT EXCEEDS	--	8.2
90 PERCENT EXCEEDS	--	3.7

* During period of operation.

** April 1941 to November 1944 not used in computation.

For period of record through 1995.

a From rating curve extended above 450 ft³/s on basis of slope-area measurement of peak flow.

YELLOWSTONE RIVER BASIN

06320210 CLEAR CREEK ABOVE KUMOR DRAW, NEAR BUFFALO, WY

LOCATION.--Lat 44°23'21", long 106°37'23", in NW¹/₄ NE¹/₄ SE¹/₄ sec.17, T.51 N., R.81 W., Johnson County, Hydrologic Unit 10090206, 10 ft upstream from bridge on State Highway 16, 0.7 mi upstream from Kumor Draw, and 5 mi northeast of Buffalo.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)
OCT 25...	0930	100	564	7.6	2.5	--	653
MAR 06...	1400	43	802	7.8	0.0	-6.0	644
JUN 29...	1340	586	153	7.8	10.0	17.0	658
AUG 30...	1915	32	1150	8.2	20.0	19.5	670

DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 25...	11.5	99	75	<0.01	<0.05	<0.02	<0.01
MAR 06...	12.8	104	K8	<0.01	0.19	0.16	0.04
JUN 29...	8.9	91	110	<0.01	<0.05	0.03	<0.01
AUG 30...	8.1	102	160	<0.01	<0.05	<0.02	0.03

K-Results based on colony count outside the acceptable range (non-ideal colony count).

06320500 SOUTH PINEY CREEK AT WILLOW PARK, WY

LOCATION.--Lat 44°27'59", long 107°02'03", in NW¹/₄ sec.24, T.52 N., R.85 W., Johnson County, Hydrologic Unit 10090206, Bighorn National Forest, on left bank about 300 ft downstream from Willow Park Dam, 1.4 mi upstream from Kearny Creek, and 10 mi southwest of Story.

DRAINAGE AREA.--33.6 mi².

PERIOD OF RECORD.--September 1945 to September 1957 (no winter records prior to 1948), October 1959 to current year (no winter records since 1971).

REVISED RECORDS.--WSP 1309: 1949(M). WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,540 ft above sea level, from topographic map. Prior to Oct. 1, 1957, at site about 600 ft upstream at different datum. Oct. 1, 1959, to Sept. 30, 1965, at present site at datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: May 1-18. Records good except those for estimated daily discharges, which are poor. Some regulation by Cloud Peak Reservoir, capacity, 3,385 acre-ft, and Willow Park Reservoir, capacity, 4,457 acre-ft. Storage began in Willow Park Reservoir in April 1959. Cloud Peak Reservoir enlarged December 1958. Water released from storage in Cloud Peak Reservoir is diverted just downstream from station into Rock Creek basin.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	3.4	26	197	51	74
2	---	---	---	---	---	---	---	3.4	33	161	61	74
3	---	---	---	---	---	---	---	3.4	73	188	71	73
4	---	---	---	---	---	---	---	3.4	96	197	83	72
5	---	---	---	---	---	---	---	3.4	134	194	93	72
6	---	---	---	---	---	---	---	3.4	249	191	90	70
7	---	---	---	---	---	---	---	3.4	266	221	93	70
8	---	---	---	---	---	---	---	3.4	267	223	96	71
9	---	---	---	---	---	---	---	3.4	267	220	97	70
10	---	---	---	---	---	---	---	3.4	265	204	96	70
11	---	---	---	---	---	---	---	3.4	263	199	98	69
12	---	---	---	---	---	---	---	3.4	262	146	98	68
13	---	---	---	---	---	---	---	3.5	263	144	97	68
14	---	---	---	---	---	---	---	3.6	301	121	96	62
15	---	---	---	---	---	---	---	3.7	685	105	95	52
16	---	---	---	---	---	---	---	3.9	868	92	94	49
17	---	---	---	---	---	---	---	4.1	808	82	94	46
18	---	---	---	---	---	---	---	4.3	703	75	94	46
19	---	---	---	---	---	---	---	4.7	473	84	90	46
20	---	---	---	---	---	---	---	5.8	445	120	82	48
21	---	---	---	---	---	---	---	7.6	513	99	82	50
22	---	---	---	---	---	---	---	9.7	505	95	79	45
23	---	---	---	---	---	---	---	11	387	81	73	40
24	---	---	---	---	---	---	---	11	371	70	75	47
25	---	---	---	---	---	---	---	10	362	62	79	46
26	---	---	---	---	---	---	---	10	303	56	79	46
27	---	---	---	---	---	---	---	10	178	49	78	46
28	---	---	---	---	---	---	---	10	174	48	77	45
29	---	---	---	---	---	---	---	10	219	47	76	45
30	---	---	---	---	---	---	---	13	209	44	76	45
31	---	---	---	---	---	---	---	21	---	49	75	---
TOTAL	---	---	---	---	---	---	---	197.7	9968	3864	2618	1725
MEAN	---	---	---	---	---	---	---	6.38	332	125	84.5	57.5
MAX	---	---	---	---	---	---	---	21	868	223	98	74
MIN	---	---	---	---	---	---	---	3.4	26	44	51	40
AC-FT	---	---	---	---	---	---	---	392	19770	7660	5190	3420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1971, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1947	15.0	26.8	1962	6.47	1967
1948	9.77	16.8	1960	.52	1967
1949	8.20	14.2	1968	1.94	1964
1950	6.93	12.4	1968	1.26	1964
1951	6.21	11.7	1968	1.27	1964
1952	6.29	10.6	1968	1.58	1964
1953	10.1	27.0	1949	1.27	1960
1954	47.9	153	1948	2.77	1967
1955	163	321	1963	66.4	1954
1956	113	169	1964	74.1	1956
1957	82.7	123	1964	30.9	1954
1958	38.5	70.9	1967	17.0	1954

SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1947 - 1971
ANNUAL MEAN	---	42.4a
HIGHEST ANNUAL MEAN	---	55.9
LOWEST ANNUAL MEAN	---	27.5
HIGHEST DAILY MEAN	868	1080
LOWEST DAILY MEAN	3.4	.13b
ANNUAL SEVEN-DAY MINIMUM	---	.33
INSTANTANEOUS PEAK FLOW	950	1620c
INSTANTANEOUS PEAK STAGE	4.99	5.68
ANNUAL RUNOFF (AC-FT)	---	30700
10 PERCENT EXCEEDS	---	116
50 PERCENT EXCEEDS	---	12
90 PERCENT EXCEEDS	---	4.0

* During period of operation.

For period of record through 1995.

a Unadjusted.

b Minimum daily, prior to construction of Willow Park Reservoir, 4.5 ft³/s, Mar. 1 to Apr. 5, 1955.

c From rating curve extended above 360 ft³/s on basis of slope-area measurement of peak flow.

YELLOWSTONE RIVER BASIN

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06324500 POWDER RIVER AT MOORHEAD, MT

LOCATION.--Lat 45°04'04", long 105°52'10", in NW¹/4 SE¹/4 NW¹/4 sec.8, T.9 S., R.48 E., Powder River County, Hydrologic Unit 10090207, on left bank 500 ft downstream from discontinued post office at Moorhead, 6.2 mi upstream from Buffalo Creek, and at river mile 184.8.

DRAINAGE AREA.--8,088 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1929 to September 1972, October 1974 to current year. Monthly discharge only for some periods, published in WSP 1309.

REVISED RECORDS.--WSP 1309: 1932(M). WSP 1729: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,334.6 ft above sea level (levels by U.S. Army Corps of Engineers).

Prior to Aug. 28, 1931, nonrecording gage at site 0.3 mi upstream at different datum. Aug. 28, 1931, to Mar. 21, 1956, water-stage recorder at site 1.2 mi upstream at different datum. Mar. 22 to July 24, 1956, nonrecording gage at site 0.3 mi downstream at different datum. July 25 to Sept. 12, 1956, nonrecording gage at present site and datum.

REMARKS.--Records good except those for period of estimated daily discharges, which are poor. Some regulation by three reservoirs in Wyoming with combined usable capacity of 36,800 acre-ft. Diversions for irrigation of about 66,300 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 30, 1923, reached a stage of 19 ft, site and datum used 1931-56, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	443	e230	e140	e800	635	271	434	1800	2240	174	61
2	73	446	e250	e130	e1100	e250	262	394	1870	1880	153	57
3	85	434	e180	e120	e1200	e200	256	403	2010	1700	134	66
4	102	421	e100	e110	e1300	e130	255	483	2830	1640	161	68
5	124	416	e110	e120	e1000	e80	255	438	4250	1620	148	64
6	262	413	e100	e130	e800	e50	250	413	4400	1520	138	67
7	741	412	e90	e140	e700	e52	246	377	e4550	1460	137	57
8	949	400	e90	e150	e600	e55	239	387	e4400	1380	138	46
9	1390	401	e90	e160	e500	e60	264	652	4250	1390	143	39
10	818	432	e100	e160	e400	e150	257	3190	4530	1390	125	36
11	541	498	e100	e170	e250	e1000	269	6850	5950	1310	123	41
12	428	495	e100	e170	e220	884	291	3460	5560	1180	110	46
13	363	480	e110	e180	e200	893	315	2210	4390	1120	98	53
14	320	453	e110	e190	e210	724	305	2090	4210	1020	87	51
15	308	473	e90	e180	e220	685	288	2160	4450	950	80	48
16	397	450	e100	e170	e250	698	283	2380	4660	908	71	74
17	584	458	e150	e170	e300	627	289	2110	4990	825	76	75
18	2420	431	e200	e160	e350	522	313	1860	5170	685	69	73
19	6280	e200	e230	e180	e500	476	349	2110	4700	619	63	83
20	3460	e140	e210	e170	e700	455	343	2070	4030	557	59	108
21	1580	e100	e220	e150	e650	423	353	2030	3540	517	56	110
22	1160	e80	e220	e130	e600	401	378	1970	3250	595	51	138
23	896	e100	e200	e140	e800	391	360	2020	3250	808	49	154
24	756	e120	e210	e150	e1400	370	335	1890	2760	717	48	167
25	655	e110	e230	e150	1610	351	331	1850	2460	592	46	235
26	581	e120	e220	e160	1220	339	360	1940	2240	541	160	247
27	529	e130	e230	e160	913	346	376	1840	2110	456	91	234
28	486	e120	e210	e170	820	323	354	1870	2010	343	79	209
29	508	e170	e180	e250	---	294	340	1770	2050	268	100	212
30	488	e200	e160	e350	---	299	436	1690	2360	215	90	216
31	464	---	e140	e500	---	291	---	1940	---	195	71	---
TOTAL	27811	9546	4960	5410	19613	12454	9223	55281	109030	30641	3128	3135
MEAN	897	318	160	175	700	402	307	1783	3634	988	101	104
MAX	6280	498	250	500	1610	1000	436	6850	5950	2240	174	247
MIN	63	80	90	110	200	50	239	377	1800	195	46	36
AC-FT	55160	18930	9840	10730	38900	24700	18290	109600	216300	60780	6200	6220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1995, BY WATER YEAR (WY)*

	MEAN	220	218	157	148	285	630	507	1059	1404	483	170	143
MAX	897	491	326	445	1200	2290	1313	5553	4131	2500	1219	686	
(WY)	1995	1930	1981	1981	1930	1947	1965	1978	1967	1937	1941	1982	
MIN	16.1	80.0	56.2	27.2	20.9	210	117	82.6	39.5	33.9	.60	1.28	
(WY)	1955	1936	1933	1950	1933	1935	1961	1934	1954	1961	1966	1960	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1930 - 1995*
ANNUAL TOTAL	132040	290232	--
ANNUAL MEAN	362	795	452
HIGHEST ANNUAL MEAN	--	--	1091
LOWEST ANNUAL MEAN	--	--	109
HIGHEST DAILY MEAN	6280	Oct 19	27500
LOWEST DAILY MEAN	22	Sep 11	.00
ANNUAL SEVEN-DAY MINIMUM	27	Sep 8	.00
INSTANTANEOUS PEAK FLOW	--	8250	May 11
INSTANTANEOUS PEAK STAGE	--	8.32	May 11
INSTANTANEOUS LOW FLOW	--	34	Sep 10
ANNUAL RUNOFF (AC-FT)	261900	575900	327400
10 PERCENT EXCEEDS	863	2110	1050
50 PERCENT EXCEEDS	200	331	214
90 PERCENT EXCEEDS	45	80	46

* During period of operation (1930-72, 1975 to current year).

a Gage height, 15.24 ft.

b Ice jam, site and datum then in use.

e Estimated.

YELLOWSTONE RIVER BASIN

06324500 POWDER RIVER AT MOORHEAD, MT--Continued

WATER-QUALITY RECORDS

LOCATION.--Samples collected at bridge on county road, 1.2 mi upstream from gaging station.

PERIOD OF RECORD.--Water years 1951-53, 1956-57, 1969-72, 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1986 to November 1989.

WATER TEMPERATURE: February 1951 to September 1953, October 1955 to September 1957, October 1974 to September 1977, March 1978 to September 1981 (seasonal records only).

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to September 1977, March 1978 to current year (seasonal records only).

REMARKS.--Unpublished records for many days of instantaneous water temperature and specific conductance are available in files of the Montana District office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (water years 1986-90): Maximum daily, 4,150 microsiemens per centimeter ($\mu\text{S}/\text{cm}$) at 25.0°C, July 17, 1988; minimum daily 642 microsiemens per centimeter ($\mu\text{S}/\text{cm}$) at 25.0°C, May 20, 1988.

WATER TEMPERATURE (water years 1951-53, 1955-57, 1975-81): Maximum daily, 33.0°C, July 14, 1981; minimum daily, 0.0°C on many days during winter.

SEDIMENT CONCENTRATION: Maximum daily mean, 53,500 mg/L, May 27, 1980; minimum daily mean, 5 mg/L, Sept. 15, 1975.

SEDIMENT LOAD: Maximum daily, 2,230,000 tons, May 20, 1978; minimum daily, 0.17 ton, Aug. 1, 1988.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum observed daily mean, 42,800 mg/L, July 10; minimum observed daily mean, 26 mg/L, July 2.

SEDIMENT LOAD: Maximum observed daily, 178,000 tons, July 9; minimum observed daily, 2.9 tons, July 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 1994								
06...	1015	166	1840	7.5	11.5	556	249	98
MAR								
16...	0940	702	1710	6.0	6.0	3090	5860	81
MAY								
04...	0930	490	2040	12.5	9.0	2470	3270	91
11...	1045	6540	--	--	--	41200	728000	83
JUN								
21...	1415	3570	557	29.0	21.0	3420	33000	52
JUL								
26...	1345	535	1410	34.0	24.0	854	1230	87
AUG								
31...	1255	70	2160	24.0	21.5	78	15	96

YELLOWSTONE RIVER BASIN

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06324500 POWDER RIVER AT MOORHEAD, MT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN CONCEN- TRATION LOADS		MEAN CONCEN- TRATION LOADS		MEAN CONCEN- TRATION LOADS		MEAN CONCEN- TRATION LOADS		MEAN CONCEN- TRATION LOADS		MEAN CONCEN- TRATION LOADS	
	(MG/L)	(T/DAY)	(MG/L)	(T/DAY)	(MG/L)	(T/DAY)	(MG/L)	(T/DAY)	(MG/L)	(T/DAY)	(MG/L)	(T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1											---	---
2											---	---
3											---	---
4											---	---
5											---	---
6											---	---
7											---	---
8											---	---
9											---	---
10											---	---
11											---	---
12											5410	12900
13											3490	8410
14											2190	4280
15											1990	3680
16											2770	5220
17											2590	4380
18											2340	3300
19											2270	2920
20											1980	2430
21											1480	1690
22											1090	1180
23											955	1010
24											932	931
25											833	789
26											740	677
27											710	663
28											651	568
29											599	475
30											558	450
31											619	486
TOTAL											---	56439
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	561	410	1170	1370	7000	34000	5450	33000	390	183	116	19
2	549	388	1100	1170	6010	30300	5600	28400	298	123	114	18
3	543	375	1060	1150	4810	26100	4190	19200	254	92	109	19
4	481	331	2060	2690	5500	42000	3400	15100	245	107	105	19
5	431	297	1610	1900	13100	150000	3010	13200	212	85	94	16
6	435	294	1950	2170	11800	140000	2700	11100	197	73	81	15
7	488	324	1900	1930	7200	88500	2280	8990	184	68	56	8.6
8	380	245	1590	1660	8050	95600	1870	6970	171	64	68	8.4
9	389	277	3900	6870	6150	70600	1460	5480	157	61	71	7.5
10	401	278	26900	232000	9180	112000	1170	4390	144	49	59	5.7
11	410	298	40200	743000	19700	316000	965	3410	125	42	44	4.9
12	512	402	31100	291000	20600	309000	849	2700	100	30	40	5.0
13	590	502	17000	101000	13100	155000	779	2360	88	23	42	6.0
14	591	487	11000	62100	9400	107000	820	2260	85	20	47	6.5
15	510	397	12200	71200	6390	76800	905	2320	82	18	50	6.5
16	472	361	14000	90000	5200	65400	935	2290	78	15	61	12
17	453	353	12400	70600	5150	69400	781	1740	75	15	55	11
18	441	373	9330	46900	5420	75700	612	1130	73	14	53	10
19	649	612	9010	51300	5010	63600	639	1070	79	13	59	13
20	619	573	9250	51700	3600	39200	918	1380	75	12	70	20
21	691	659	7200	39500	3120	29800	1030	1440	71	11	83	25
22	812	829	6490	34500	3090	27100	1060	1700	66	9.1	99	37
23	859	835	6200	33800	3390	29700	1100	2400	54	7.1	110	46
24	831	752	5720	29200	2380	17700	1010	1960	39	5.1	129	58
25	905	809	5200	26000	2390	15900	981	1570	34	4.2	401	254
26	1040	1010	4620	24200	2000	12100	1020	1490	116	50	580	387
27	995	1010	3810	18900	1810	10300	990	1220	125	31	655	414
28	1000	956	4090	20700	1950	10600	990	917	120	26	909	513
29	1180	1080	4300	20500	1990	11000	960	695	146	39	910	521
30	1310	1540	4800	21900	2550	16200	838	486	119	29	720	420
31	---	---	6290	32900	---	---	593	312	93	18	---	---
TOTAL	---	17057	---	2133810	---	2246600	---	180680	---	1336.5	---	2906.1

TOTAL LOAD FOR YEAR: 4638828.6 TONS

YELLOWSTONE RIVER BASIN

06324970 LITTLE POWDER RIVER ABOVE DRY CREEK, NEAR WESTON, WY

LOCATION.--Lat 44°55'37", long 105°21'10", in NW¹/₄ SW¹/₄ SW¹/₄ sec.13, T.57 N., R.71 W., Campbell County, Hydrologic Unit 10090208, on left bank 3.1 mi upstream from Dry Creek, 5.0 mi south of the Wyoming-Montana State line, and 20 mi north of Weston.

DRAINAGE AREA.--1,235 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

REVISED RECORDS.--WDR WY-77-1: Drainage area. WDR WY-78-1: 1976(M).

GAGE.--Water-stage recorder. Elevation of gage is 3,410 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 5-12, 19-23, Dec. 29 to Feb. 8, and Feb. 12 to Mar. 9. Records good except those for estimated daily discharges, which are poor. Diversion upstream from station for irrigation of about 80 acres downstream from station. Flow occasionally affected by contributions from mine dewatering.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 130 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 8	1630	531	6.43	May 14	2130	624	6.57
Oct. 18	0600	1640	*9.87	May 22	1600	361	5.55
Mar. 14	1300	656	6.89	May 30	0530	168	4.57
May 3	0900	162	4.57	June 11	1530	789	7.12
May 10	1530	*1730	9.78	Aug. 25	2330	386	5.65

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	19	13	4.2	11	10	13	18	72	16	8.9	5.6
2	1.7	18	13	3.8	14	8.9	14	123	56	16	8.4	5.2
3	1.8	17	12	3.5	29	8.2	14	136	50	16	7.7	4.7
4	1.8	17	11	3.5	50	7.6	13	94	49	15	7.5	4.6
5	2.1	16	10	4.2	46	7.9	13	60	42	14	7.5	4.8
6	12	16	9.8	5.2	59	8.2	13	37	35	19	11	4.7
7	74	15	10	5.0	37	8.5	13	22	31	33	10	4.5
8	353	15	11	5.5	20	9.2	12	27	33	18	11	4.5
9	141	15	9.9	6.1	19	27	13	810	92	19	8.5	4.4
10	111	15	9.9	6.7	14	36	13	1620	368	20	7.5	4.4
11	51	15	9.9	6.6	9.7	209	13	1130	678	19	6.9	4.7
12	25	15	10	6.3	9.0	321	13	483	414	16	6.6	4.8
13	13	14	11	6.0	8.2	466	12	234	163	15	6.1	4.4
14	9.3	14	11	6.3	7.4	522	12	490	111	14	5.9	4.2
15	7.7	14	10	6.9	7.0	207	13	501	75	14	5.8	4.1
16	36	14	10	6.6	6.1	130	12	215	56	13	5.5	4.0
17	758	14	10	6.2	5.8	80	11	148	45	14	5.4	3.9
18	1540	14	10	5.8	6.3	55	12	109	40	26	5.0	3.9
19	1150	13	9.3	6.4	7.0	43	11	83	35	21	5.0	4.9
20	482	13	9.6	6.8	7.6	35	11	113	30	21	5.0	4.6
21	145	13	9.6	6.0	8.6	27	12	126	28	27	4.8	4.1
22	90	12	9.3	5.4	9.3	21	11	233	29	24	4.5	4.2
23	66	13	9.6	5.6	10	18	11	103	25	17	4.4	4.2
24	52	13	9.9	5.7	11	16	11	73	21	14	4.3	4.2
25	41	13	9.7	5.8	11	15	11	60	22	15	37	4.2
26	35	13	9.8	6.4	12	14	11	56	18	14	79	4.2
27	29	13	9.9	7.2	12	13	11	63	18	14	36	4.9
28	27	12	9.6	7.5	11	13	11	65	17	11	35	4.9
29	23	12	9.0	6.9	---	13	11	99	17	13	11	4.9
30	21	12	7.6	8.0	---	13	12	132	16	11	7.4	4.9
31	20	---	4.7	9.1	---	13	---	90	---	9.9	6.2	---
TOTAL	5320.8	429	309.1	185.2	458.0	2375.5	363	7553	2686	528.9	374.8	135.6
MEAN	172	14.3	9.97	5.97	16.4	76.6	12.1	244	89.5	17.1	12.1	4.52
MAX	1540	19	13	9.1	59	522	14	1620	678	33	79	5.6
MIN	1.4	12	4.7	3.5	5.8	7.6	11	18	16	9.9	4.3	3.9
AC-FT	10550	851	613	367	908	4710	720	14980	5330	1050	743	269

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1995, BY WATER YEAR (WY)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	12.6	2.82	2.16	6.97	21.5	56.0	18.1	70.4	32.0	11.5	6.57	4.73											
MAX	172	20.4	9.97	89.0	144	613	58.5	703	187	68.8	44.8	60.8											
(WY)	1995	1987	1995	1974	1994	1978	1977	1978	1984	1982	1993	1986											
MIN	.009	.015	.21	.10	.46	1.34	.75	1.04	2.11	.044	.000	.002											
(WY)	1992	1982	1982	1991	1989	1981	1981	1992	1988	1980	1991	1991											

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1973 - 1995
ANNUAL TOTAL	16346.86	20718.9	--
ANNUAL MEAN	44.8	56.8	20.5
HIGHEST ANNUAL MEAN	--	--	127
LOWEST ANNUAL MEAN	--	--	1.49
HIGHEST DAILY MEAN	1540	1620	5000
LOWEST DAILY MEAN	.46	1.4	.00
ANNUAL SEVEN-DAY MINIMUM	.52	4.2	.00
INSTANTANEOUS PEAK FLOW	--	1730a	5300b
INSTANTANEOUS PEAK STAGE	--	9.87c	11.63
ANNUAL RUNOFF (AC-FT)	32420	41100	14850
10 PERCENT EXCEEDS	64	101	32
50 PERCENT EXCEEDS	9.3	13	2.5
90 PERCENT EXCEEDS	1.2	4.8	.02

a Gage height, 9.78 ft.

b Gage height, 11.62 ft.

c Discharge, 1,640 ft³/s.

YELLOWSTONE RIVER BASIN

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06324970 LITTLE POWDER RIVER ABOVE DRY CREEK, NEAR WESTON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-82, 1985 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
OCT 13...	1140	13	672	7.7	8.0	7.0	675	10.0	96
MAR 09...	0930	8.4	3210	8.1	0.5	3.0	670	10.3	82
MAY 24...	1250	72	2170	7.8	14.0	15.0	680	7.8	86
AUG 30...	1200	7.6	2900	8.0	21.0	23.0	679	8.1	103

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT 13...	150	33	17	87	3	8.6	101	220	6.5
MAR 09...	860	180	100	490	7	15	409	1500	35
MAY 24...	710	130	94	270	4	15	264	1000	14
AUG 30...	550	110	68	440	8	19	278	1100	110

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 13...	0.3	7.8	--	441	0.60	15.5	--	--
MAR 09...	0.6	10	2710	2580	3.69	61.5	28	390
MAY 24...	0.4	10	1810	1690	2.46	352	32	130
AUG 30...	0.7	7.7	2130	2020	2.90	43.7	7	71

RESERVOIRS IN YELLOWSTONE RIVER BASIN IN WYOMING

06224500 BULL LAKE.--Lat 43°12'35", long 109°02'30", in E¹/₂ NW¹/₄ sec.30, T.3 N., R.2 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, at dam on Bull Lake Creek, 2.8 mi upstream from mouth of Bull Lake Creek, and 9.8 mi south of Lenore. DRAINAGE AREA, 210 mi², of which 12 mi² is probably noncontributing. PERIOD OF RECORD, April 1938 to current year. Monthend contents only for some periods, published in WSP 1309. Published as Bull Lake Reservoir near Lenore 1938-50. GAGE, water-stage recorder. Datum of gage is sea level (Bureau of Reclamation datum).

REMARKS, reservoir is formed by rockfill dam completed by Bureau of Reclamation July 22, 1938. Capacity, 152,500 acre-ft below elevation 5,805.00 ft, top of spillway gates. Dead storage, 722 acre-ft. Figures given herein represent total contents. Water is used for irrigation near Riverton. COOPERATION, records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents, 154,200 acre-ft, Aug. 10, 1965, elevation, 5,805.70 ft; minimum daily contents (since appreciable storage was attained), 5,540 acre-ft, Mar. 15, 1950, elevation, 5,742.56 ft.

EXTREMES FOR CURRENT YEAR: Maximum daily contents, 148,700 acre-ft, Aug. 1, elevation, 5,803.80 ft; minimum daily contents, 43,900 acre-ft, Oct. 1, elevation, 5,763.60 ft.

06258900 BOYSEN RESERVOIR.--Lat 43°25'00", long 108°10'37", in NW¹/₄ NW¹/₄ sec.16, T.5 N., R.6 E., Fremont County, Hydrologic Unit 10080005, at dam on Wind River and 13 mi north of Shoshoni. DRAINAGE AREA, 7,700 mi². PERIOD OF RECORD, October 1951 to current year. GAGE, water-stage recorder. Datum of gage is sea level (Bureau of Reclamation datum of 1933).

REMARKS, reservoir is formed by rockfill dam completed by Bureau of Reclamation in October 1951. Capacity, 802,000 acre-ft below elevation 4,725.00 ft, top of spillway gate. Includes 59,880 acre-ft dead storage below elevation 4,657.00 ft, invert of penstock pipe. Figures given herein represent total contents. Water used for irrigation, flood control, and power development. COOPERATION, records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents, 922,400 acre-ft, July 6, 7, 1967, elevation, 4,730.83 ft; minimum daily contents (since normal use of water started), 251,800 acre-ft, Mar. 18, 19, 1956, elevation, 4,684.18 ft.

EXTREMES FOR CURRENT YEAR: Maximum daily contents, 862,200 acre-ft, July 15, elevation, 4,7227.99 ft; minimum daily contents, 503,800 acre-ft, Oct. 2, elevation, 4,707.19 ft.

06260300 ANCHOR RESERVOIR.--Lat 43°39'50", long 108°49'27", in sec.26, T.43 N., R.100 W., Hot Springs County, Hydrologic Unit 10080007, at dam on South Fork Owl Creek, 2.0 mi downstream from Middle Fork, 3.0 mi southeast of Anchor, and 32 mi west of Thermopolis. DRAINAGE AREA, 131 mi². PERIOD OF RECORD, November 1960 to current year. GAGE, water-stage recorder. Datum of gage is sea level (Bureau of Reclamation datum).

REMARKS, reservoir is formed by concrete arch dam completed by Bureau of Reclamation in 1960. Capacity, 17,230 acre-ft below elevation 6,441.00 ft, crest of spillway. Includes 68 acre-ft below elevation 6,343.75 ft, invert of river outlet. Figures given herein represent total contents. Water used for irrigation of lands in Owl Creek basin. COOPERATION, records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents, 9,250 acre-ft, July 4, 1967, elevation, 6,418.52 ft; maximum elevation, 6,419.10 ft, June 12, 1991; no storage on many days, most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 862,200 acre-ft, July 13, elevation, 6,414.30 ft; minimum daily contents, 34 acre-ft, Oct. 1, elevation, 6,340.00 ft.

06281500 BUFFALO BILL RESERVOIR.--Lat 44°30'05", long 109°11'00", in NE¹/₄ sec.12, T.52 N., R.103 W., Park County, Hydrologic Unit 10080013, at dam on Shoshone River, 5.0 mi upstream from Trail Creek, and 6.0 mi southwest of Cody. DRAINAGE AREA, 1,498 mi². PERIOD OF RECORD, May to July 1909, January 1910 to current year. Monthend contents only prior to October 1938, published in WSP 1309. Prior to October 1944, published as Shoshone Reservoir near Cody. GAGE, water-stage recorder. Datum of gage is sea level (Bureau of Reclamation datum). Prior to July 8, 1959, nonrecording gage at same datum.

REMARKS, reservoir is formed by masonry dam completed by Bureau of Reclamation in 1909. Height of dam was increased 25 ft, effective 1992, increasing capacity to 604,800 acre-ft, elevation 5,393.50 ft, from 424,000 acre-ft, elevation 5,360.00 ft. Crest of dam is at elevation 5,395.00 ft. Dead storage negligible. Figures given herein represent total contents. Water used for power development and irrigation of lands east of Cody. COOPERATION, records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD: Maximum daily contents, 526,800 acre-ft, Aug. 2, 1993, elevation, 5,378.14 ft; minimum daily contents, 19,000 acre-ft, Jan 23-25, 1941, elevation, 5,225.3 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 642,600 acre-ft, July 30, elevation, 5,393.07 ft; minimum daily contents, 201,200 acre-ft, Oct. 11, elevation, 5,322.95 ft.

YELLOWSTONE RIVER BASIN

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Reservoirs in Yellowstone River basin in Wyoming--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
06224500 BULL LAKE			
Sept. 30	5,763.48	43,700	-
Oct. 31	5,765.76	48,400	+4,700
Nov. 30	5,766.48	50,000	+1,600
Dec. 31	5,766.82	50,600	+700
CAL YR 1994	-	-	-38,000
Jan. 31	5,766.90	50,800	+200
Feb. 28	5,766.91	50,800	0
Mar. 31	5,767.07	51,200	+400
Apr. 30	5,767.78	52,700	+1,500
May 31	5,772.96	64,300	+11,600
June 30	5,800.60	138,800	+74,500
July 31	5,803.78	148,600	+9,800
Aug. 31	5,796.82	127,400	-21,200
Sept. 30	5,788.96	105,000	-22,400
WTR YR 1995	-	-	+61,300
06258900 BOYSEN RESERVOIR			
Sept. 30	4,707.21	504,100	-
Oct. 31	4,708.03	515,800	+11,700
Nov. 30	4,708.84	527,600	+11,800
Dec. 31	4,766.82	531,300	+3,700
CAL YR 1994	-	-	-133,400
Jan. 31	4,716.23	642,900	+1,200
Feb. 28	4,715.88	637,100	+26,200
Mar. 31	4,715.49	630,600	+26,700
Apr. 30	4,715.68	633,800	-700
May 31	4,716.43	646,300	-5,000
June 30	4,714.81	619,500	+226,900
July 31	4,711.52	567,700	-15,100
Aug. 31	4,708.63	524,600	-77,500
Sept. 30	4,707.21	504,100	-43,500
WTR YR 1995	-	-	+166,400

YELLOWSTONE RIVER BASIN

Reservoirs in Yellowstone River basin in Wyoming--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
06260300 ANCHOR RESERVOIR			
Sept. 30	6,340.00	34	-
Oct. 31	6,340.00	34	0
Nov. 30	6,340.00	34	0
Dec. 31	6,340.00	34	0
CAL YR 1994	-	-	-25
Jan. 31	6,343.50	64	+30
Feb. 28	6,346.00	91	+27
Mar. 31	6,343.00	59	-32
Apr. 30	6,343.00	59	0
May 31	6,372.40	1,080	+1,020
June 30	6,413.60	7,780	+6,700
July 31	6,410.20	6,530	-1,200
Aug. 31	6,365.50	654	-5,900
Sept. 30	6,350.50	159	-495
WTR YR 1995	-	-	+125
06281500 BUFFALO BILL RESERVOIR			
Sept. 30	5,335.90	209,100	-
Oct. 31	5,325.73	212,500	+3,400
Nov. 30	5,328.43	224,100	+11,600
Dec. 31	5,330.13	231,600	+7,500
CAL YR 1994	-	-	-152,700
Jan. 31	5,330.65	233,900	+2,300
Feb. 28	5,332.04	240,300	+6,400
Mar. 31	5,334.74	253,200	+12,900
Apr. 30	5,332.13	240,700	-12,500
May 31	5,341.91	290,300	+49,600
June 30	5,380.20	542,200	+251,900
July 31	5,393.03	642,000	+99,800
Aug. 31	5,385.25	580,400	-61,600
Sept. 30	5,377.90	525,200	-55,200
WTR YR 1995	-	-	+316,100

06375600 LITTLE THUNDER CREEK NEAR HAMPSHIRE, WY

LOCATION.--Lat 43°39'20", long 104°54'20", in SW¹/₄ SE¹/₄ sec.33, T.43 N., R.67 W., Weston County, Hydrologic Unit 10120103, Thunder Basin National Grassland, on left bank 1.2 mi downstream from county bridge, 2.7 mi upstream from mouth, 12 mi northwest of Hampshire, and 38 mi southwest of Newcastle.

DRAINAGE AREA.--234 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1977 to September 1981, October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,400 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 9, Dec. 4-6, 9, 10, 15-18, 23, Jan. 1-10, 23-26, Feb. 3, 15-17, and Feb. 24 to Mar. 3. Records good except those less than 1 ft³/s, which are fair and December to March, which are poor. Numerous small stock water reservoirs upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 40 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 9	0030	*155	*4.46	June 10	0400	55	3.77

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.02	.00	.00	.00	.02	.00	.29	.10	.44	.00	.00
2	.00	.01	.00	.00	.00	.02	.00	.65	.06	.25	.00	.00
3	.00	.01	.01	.00	.00	.02	.00	.38	.04	.13	.00	.00
4	.00	.01	.02	.00	.00	.02	.00	.19	.05	.09	.00	.00
5	.00	.01	.02	.00	.00	.01	.00	.15	.04	.04	.00	.00
6	.00	.01	.01	.00	.00	.01	.00	.11	.02	.02	.00	.00
7	.00	.01	.00	.01	.00	.01	.00	.09	.01	.02	.00	.00
8	.00	.00	.00	.01	.00	.01	.00	31	.08	.01	.00	.00
9	.00	.00	.00	.02	.00	.01	.00	61	.22	.01	.00	.00
10	.00	.00	.00	.02	.00	.04	.00	12	36	.00	.00	.00
11	.00	.00	.00	.03	.00	.05	.00	4.1	8.9	.00	.00	.00
12	.00	.00	.00	.00	.00	.20	.00	2.3	4.1	.00	.00	.00
13	.00	.03	.00	.00	.00	.31	.00	1.6	2.8	.00	.00	.00
14	.00	.04	.00	.00	.00	.20	.00	1.3	2.0	.00	.00	.00
15	.02	.05	.02	.00	.00	.15	.00	1.2	1.4	.00	.00	.00
16	.03	.03	.03	.00	.00	.11	.01	1.0	.89	.00	.00	.00
17	.05	.03	.03	.00	.00	.08	.01	1.7	.59	.00	.00	.00
18	.39	.02	.02	.00	.01	.04	.01	2.8	.46	.00	.00	.00
19	1.6	.01	.00	.00	.01	.02	.01	1.4	.28	.00	.00	.00
20	1.2	.00	.00	.00	.00	.01	.01	.85	.17	.00	.00	.00
21	.96	.00	.00	.00	.00	.01	.01	.61	.23	.00	.00	.00
22	.62	.00	.00	.00	.00	.01	.01	.37	.19	.00	.00	.00
23	.40	.00	.03	.00	.00	.01	.01	.74	.13	.00	.00	.00
24	.27	.00	.01	.00	.02	.00	.01	.67	.08	.00	.00	.00
25	.19	.00	.00	.00	.04	.00	.01	.46	.04	.00	.00	.00
26	.15	.00	.00	.00	.06	.00	.01	.36	.02	.00	.00	.00
27	.14	.00	.00	.00	.04	.00	.01	.57	1.3	.00	.00	.00
28	.10	.00	.00	.00	.02	.01	.01	2.2	7.8	.00	.00	.00
29	.07	.00	.00	.00	---	.00	.03	.71	3.0	.00	.00	.00
30	.05	.00	.00	.00	---	.00	.18	.35	1.1	.00	.00	.00
31	.03	---	.00	.00	---	.00	---	.17	---	.00	.00	---
TOTAL	6.27	0.29	0.20	0.09	0.20	1.38	0.34	131.32	72.10	1.01	0.00	0.00
MEAN	.20	.010	.006	.003	.007	.045	.011	4.24	2.40	.033	.000	.000
MAX	1.6	.05	.03	.03	.06	.31	.18	61	36	.44	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.09	.01	.00	.00	.00
AC-FT	12	.6	.4	.2	.4	2.7	.7	260	143	2.0	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1977	.044	.24	1978	.000	1988
1978	.015	.090	1979	.000	1989
1979	.023	.11	1980	.000	1990
1980	.010	.050	1981	.000	1991
1981	.37	2.23	1982	.000	1992
1982	1.54	10.8	1983	.000	1993
1983	.11	.48	1984	.000	1994
1984	15.2	114	1985	.007	1995
1985	2.59	8.97	1986	.000	
1986	1.75	8.18	1987	.000	
1987	1.51	6.82	1988	.000	
1988	.008	.064	1989	.000	
1989	.000	.000	1990	.000	
1990	.000	.000	1991	.000	
1991	.000	.000	1992	.000	
1992	.000	.000	1993	.000	
1993	.000	.000	1994	.000	
1994	.000	.000	1995	.000	

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1977 - 1995
ANNUAL TOTAL	100.42	213.20	---
ANNUAL MEAN	.28	.58	1.96
HIGHEST ANNUAL MEAN	---	---	11.8
LOWEST ANNUAL MEAN	---	---	.003
HIGHEST DAILY MEAN	22	61	1570
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW	---	155	3030a
INSTANTANEOUS PEAK STAGE	---	4.46	9.02
ANNUAL RUNOFF (AC-FT)	199	423	1420
10 PERCENT EXCEEDS	.27	.49	.56
50 PERCENT EXCEEDS	.00	.01	.00
90 PERCENT EXCEEDS	.00	.00	.00

a From rating curve extended above 180 ft³/s on basis of slope-measurements of peak flow at gage height 7.67 ft and 9.02 ft.

CHEYENNE RIVER BASIN

06375600 LITTLE THUNDER CREEK NEAR HAMPSHIRE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1977 to September 1981, October 1987 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)
OCT 18...	0945	0.20	3040	8.0	6.5	8.0	647	8.7	85	650
MAY 09...	1330	57	503	7.5	8.0	7.0	690	9.0	84	160
22...	1030	0.34	1820	8.2	10.0	8.0	650	7.5	79	530

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)
OCT 18...	110	90	450	8	22	279	1000	290	0.6	2.2
MAY 09...	33	18	41	1	7.6	57	170	2.9	0.2	7.0
22...	110	62	210	4	14	241	690	36	0.5	7.1

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (AS B) (01020)	CADMIUM DIS-SOLVED (AS CD) (01025)
OCT 18...	--	2130	2.90	1.15	10	1	96	<2	160	<3.0
MAY 09...	339	314	0.46	52.2	20	2	57	<0.5	60	2.0
22...	1340	1280	1.82	1.23	<10	<1	110	<0.5	170	<1.0

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
OCT 18...	<20	<9	<30	31	<30	41	79	<0.1	40	<30
MAY 09...	<1	<3	2	67	2	13	16	<0.1	<10	<10
22...	<1	<3	<1	22	<1	35	76	<0.1	10	<10

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 18...	<1	7.0	1600	<18	52	12	1.4	144	0.08	95
MAY 09...	1	<1.0	270	<6	10	8.8	>6.7	2530	390	99
22...	1	3.0	1100	<6	4	10	1.3	177	0.16	97

06392900 BEAVER CREEK AT MALLO CAMP, NEAR FOUR CORNERS, WY

LOCATION.--Lat 44°05'06", long 104°03'36", in SE¹/₄ NE¹/₄ NE¹/₄ sec.4, T.47 N., R.60 W., Weston County, Hydrologic Unit 10120107, on right bank in Mallo Campgrounds, 250 ft upstream from mouth, 750 ft upstream from dam on Stockade Beaver Creek, and 3.8 mi east of Four Corners.

DRAINAGE AREA.--10.3 mi².

PERIOD OF RECORD.--October 1974 to September 1982 and April 1991 to current year.

REVISED RECORD.--WDR-85-1: 1981, 1982.

GAGE.--Water-stage recorder. Elevation of gage is 6,030 ft above sea level, from topographic map. October 1974 to September 1982 at site 50 ft upstream and datum 3.11 ft lower.

REMARKS.--Estimated daily discharges: Nov. 15-16, 18-26, Dec. 10-14, Jan. 1-11, 22, 23, and Feb. 12-19. Records good except those for estimated daily discharges, which are poor. No diversions upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 24	0230	ice jam	*1.59	May 8	1615	*17	1.49
Mar. 21	2045	11	1.38				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.5	1.7	1.5	1.6	1.4	1.8	1.8	2.4	2.1	2.2	1.9
2	1.4	1.6	1.7	1.3	1.6	1.5	1.9	1.8	2.3	2.2	2.1	1.9
3	1.4	1.6	1.6	1.2	1.6	1.6	1.9	1.9	2.5	2.2	2.2	1.9
4	1.4	1.5	1.7	1.2	1.6	1.8	1.9	2.0	2.5	2.1	2.2	1.9
5	1.4	1.5	1.7	1.2	1.6	1.7	2.0	2.0	2.5	2.1	2.4	2.0
6	2.5	1.6	1.7	1.3	1.5	1.7	2.1	2.3	2.4	2.1	2.2	1.9
7	1.8	1.6	1.7	1.4	1.5	1.6	2.1	2.2	2.3	2.1	2.2	1.9
8	1.5	1.7	1.6	1.5	1.6	1.7	2.1	7.9	2.5	2.1	2.2	1.9
9	1.4	1.7	1.5	1.6	1.7	1.9	2.1	3.6	2.6	2.1	2.2	2.0
10	1.4	1.7	1.4	1.6	1.6	1.8	2.0	3.2	2.5	2.1	2.2	2.0
11	1.4	1.7	1.3	1.7	1.5	1.9	1.9	2.9	2.5	2.1	2.1	2.0
12	1.4	1.7	1.4	1.8	1.4	2.0	1.9	2.9	2.5	2.1	2.1	1.9
13	1.4	1.8	1.5	1.7	1.3	1.9	1.8	2.9	2.5	2.1	2.0	1.9
14	1.4	1.7	1.6	1.7	1.2	1.8	1.9	2.9	2.3	2.1	2.0	1.9
15	1.5	1.5	1.7	1.7	1.2	1.9	1.9	2.8	2.3	2.2	1.9	2.0
16	1.6	1.7	1.8	1.7	1.3	2.6	1.8	2.7	2.2	2.3	1.9	2.0
17	1.5	1.8	1.8	1.7	1.3	2.2	1.8	2.8	2.5	2.1	1.9	1.9
18	1.7	1.8	1.9	1.7	1.4	2.0	1.8	2.7	2.4	2.2	2.0	2.0
19	1.5	1.6	1.8	1.7	1.5	2.0	1.8	2.7	2.3	2.2	2.0	2.1
20	1.4	1.4	1.8	1.7	1.6	1.9	1.8	2.8	2.3	2.1	1.9	2.2
21	1.4	1.3	1.8	1.6	1.6	3.4	1.8	2.7	2.4	2.1	2.0	2.1
22	1.4	1.2	1.8	1.5	1.6	3.8	1.8	2.7	2.4	2.2	1.9	2.1
23	1.4	1.4	1.8	1.5	1.5	2.3	1.8	2.5	2.3	2.1	1.9	2.1
24	1.4	1.5	1.8	1.7	1.5	2.2	1.8	2.6	2.3	2.2	1.9	2.0
25	1.4	1.5	1.8	1.7	1.5	2.1	1.8	2.5	2.3	2.3	2.0	2.1
26	1.4	1.6	1.8	1.7	1.5	2.1	1.8	2.5	2.3	2.2	2.1	2.0
27	1.5	1.7	1.8	1.7	1.5	3.2	1.7	2.5	2.3	2.2	1.9	1.9
28	1.5	1.7	1.8	1.6	1.4	3.0	1.7	2.5	2.3	2.1	1.9	2.0
29	1.5	1.7	1.8	1.6	---	1.9	1.8	2.4	2.2	2.1	1.9	1.9
30	1.5	1.7	1.8	1.6	---	1.9	1.8	2.3	2.2	2.1	1.9	1.8
31	1.5	---	1.6	1.6	---	1.8	---	2.3	---	2.2	1.9	---
TOTAL	46.4	48.0	52.5	48.7	41.7	64.6	56.1	84.3	71.3	66.5	63.2	59.2
MEAN	1.50	1.60	1.69	1.57	1.49	2.08	1.87	2.72	2.38	2.15	2.04	1.97
MAX	2.5	1.8	1.9	1.8	1.7	3.8	2.1	7.9	2.6	2.3	2.4	2.2
MIN	1.4	1.2	1.3	1.2	1.2	1.4	1.7	1.8	2.2	2.1	1.9	1.8
AC-FT	92	95	104	97	83	128	111	167	141	132	125	117

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1.69	1.57	1.51	1.41	1.61	1.72	2.16	2.14	2.26	1.97	1.85	1.78									
MAX	2.32	2.35	2.23	2.17	2.51	2.70	4.07	3.44	4.05	3.09	2.89	2.78									
(WY)	1979	1981	1980	1979	1979	1979	1994	1978	1980	1979	1978	1978									
MIN	.31	.47	.44	.42	.46	.71	.88	.81	1.34	1.34	.75	.62									
(WY)	1977	1977	1977	1993	1977	1977	1993	1993	1994	1993	1976	1976									

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1975 - 1995
ANNUAL TOTAL	635.73	702.5	---
ANNUAL MEAN	1.74	1.92	1.82
HIGHEST ANNUAL MEAN	---	---	2.59
LOWEST ANNUAL MEAN	---	---	.94
HIGHEST DAILY MEAN	28	7.9	28
LOWEST DAILY MEAN	.89	1.2	.10
ANNUAL SEVEN-DAY MINIMUM	.92	1.3	.12
INSTANTANEOUS PEAK FLOW	---	17a	103b
INSTANTANEOUS PEAK STAGE	---	1.59c	2.14c
ANNUAL RUNOFF (AC-FT)	1260	1390	1320
10 PERCENT EXCEEDS	1.9	2.5	2.6
50 PERCENT EXCEEDS	1.5	1.9	1.7
90 PERCENT EXCEEDS	1.2	1.4	1.0

a Gage height, 1.49 ft.

b From rating curve extended above 85 ft³/s.

c Backwater from ice.

CHEYENNE RIVER BASIN

06392950 STOCKADE BEAVER CREEK NEAR NEWCASTLE, WY

LOCATION.--Lat 43°51'32", long 104°06'24", in SW¹/₄ SE¹/₄ sec.19, T.45 N., R.60 W., Weston County, Hydrologic Unit 10120107, on right bank 20 ft upstream of culvert on county road, 0.6 mi upstream from South Draw, 2.5 mi upstream from LAK Reservoir Dam, and 4.7 mi east of Newcastle.

DRAINAGE AREA.--107 mi².

PERIOD OF RECORD.--October 1974 to September 1982, April 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,460 ft above sea level, from topographic map. October 1974 to September 1982, at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 2-4 and Feb. 12-17. Records fair except those for estimated discharges, which are poor. A few small diversions upstream from station for irrigation.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 6	2130	*25	*7.04	No peaks greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	12	11	12	13	13	13	11	13	9.5	12
2	11	12	13	10	12	13	13	13	11	13	9.5	12
3	11	12	13	10	12	13	13	13	11	12	9.5	12
4	11	12	13	10	12	13	13	13	12	12	9.7	12
5	11	12	13	11	12	13	13	13	13	12	11	12
6	16	12	13	12	12	13	13	13	13	12	11	12
7	16	12	12	12	12	13	13	13	12	12	11	12
8	12	12	12	12	12	13	13	13	12	12	11	12
9	11	12	12	12	12	13	13	14	13	11	11	12
10	11	12	12	12	12	14	13	14	15	11	11	13
11	10	12	12	12	12	19	13	14	14	11	11	12
12	10	13	12	12	11	17	13	13	14	11	11	12
13	10	13	12	12	10	17	13	13	13	11	11	12
14	10	12	12	12	11	15	13	13	13	11	11	12
15	11	12	12	12	11	14	13	13	13	11	11	12
16	12	12	12	12	12	14	13	13	12	13	11	12
17	11	12	12	12	12	14	13	13	12	12	11	12
18	11	12	12	12	13	14	13	13	12	11	11	12
19	11	12	12	12	13	14	13	12	12	12	11	13
20	11	12	12	12	13	14	13	12	12	11	11	13
21	11	12	12	12	13	14	13	12	12	11	11	13
22	11	12	12	12	13	14	13	12	13	10	11	13
23	11	12	12	12	13	14	13	12	13	10	12	13
24	11	12	12	11	13	14	13	12	13	9.7	12	13
25	11	12	12	11	13	14	13	12	13	11	12	12
26	11	12	12	11	13	14	13	12	13	11	13	12
27	11	12	12	11	13	14	13	12	12	10	13	12
28	11	12	12	11	13	13	13	12	14	9.7	13	12
29	11	12	12	12	---	13	13	11	14	9.5	12	11
30	11	12	12	12	---	13	13	11	13	9.3	12	11
31	12	---	12	12	---	13	---	11	---	9.3	12	---
TOTAL	350	362	377	359	342	433	390	390	380	344.5	347.2	365
MEAN	11.3	12.1	12.2	11.6	12.2	14.0	13.0	12.6	12.7	11.1	11.2	12.2
MAX	16	13	13	12	13	19	13	14	15	13	13	13
MIN	10	12	12	10	10	13	13	11	11	9.3	9.5	11
AC-FT	694	718	748	712	678	859	774	774	754	683	689	724

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	11.8	12.3	12.4	12.0	12.4	13.4	12.1	9.20	10.5	10.4	10.4	11.4									
MAX	14.1	14.8	14.4	14.8	14.4	15.7	16.5	12.6	12.7	13.7	13.8	13.5									
(WY)	1975	1977	1976	1977	1977	1979	1975	1995	1995	1993	1979	1979									
MIN	9.40	9.74	10.2	9.52	10.6	10.8	9.53	6.45	5.92	8.24	6.33	8.89									
(WY)	1982	1994	1993	1980	1993	1993	1981	1992	1992	1981	1992	1991									

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1975 - 1995
ANNUAL TOTAL	3895.3	4439.7	--
ANNUAL MEAN	10.7	12.2	11.5
HIGHEST ANNUAL MEAN	--	--	13.0
LOWEST ANNUAL MEAN	--	--	9.80
HIGHEST DAILY MEAN	20	19	143
LOWEST DAILY MEAN	6.1	9.3	3.9
ANNUAL SEVEN-DAY MINIMUM	6.4	9.5	4.6
INSTANTANEOUS PEAK FLOW	--	25	776a
INSTANTANEOUS PEAK STAGE	--	7.04	12.44
ANNUAL RUNOFF (AC-FT)	7730	8810	8350
10 PERCENT EXCEEDS	13	13	14
50 PERCENT EXCEEDS	11	12	12
90 PERCENT EXCEEDS	7.9	11	8.3

a From rating curve extended above 18 ft³/s on basis of culvert-backwater computations.

06394000 BEAVER CREEK NEAR NEWCASTLE, WY

LOCATION.--Lat 43°32'07", long 104°07'02", in NW¹/₄ sec.18, T.41 N., R.60 W., Weston County, Hydrologic Unit 10120107, at highway bridge, 2.2 mi downstream from Sheep Creek, and 23 mi south of Newcastle.

DRAINAGE AREA.--1,320 mi², approximately.

PERIOD OF RECORD.--February to September 1943, October 1944 to current year.

REVISED RECORDS.--WSP 1209: 1943, 1946, 1948-49.

GAGE.--Water-stage recorder. Elevation of gage is 3,660 ft above sea level, from topographic map. Prior to Nov.1, 1945, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharges: Nov. 20 to May 8. Records good except those for estimated daily discharges, which are poor. There are many small reservoirs upstream from station used for storage of stock and irrigation water, total capacity, about 11,000 acre-ft. Diversions for irrigation of about 4,900 acres upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 9	2330	*482	*6.39	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.1	10	8.9	15	15	6.2	10	12	35	6.0	2.3
2	2.7	1.9	12	7.8	16	12	6.2	10	14	17	4.7	1.6
3	3.1	3.0	13	6.0	15	13	6.1	10	10	12	3.6	1.2
4	3.8	3.0	12	7.5	14	17	6.2	45	8.8	10	2.9	.87
5	3.5	3.3	11	8.2	13	15	6.2	23	86	9.3	2.9	.71
6	5.8	4.0	10	9.0	12	14	6.0	21	125	9.6	2.7	.66
7	8.2	3.4	9.0	9.5	12	15	6.0	20	97	8.9	2.7	.63
8	13	3.1	9.0	11	12	17	5.8	72	40	8.2	3.1	.63
9	65	4.2	9.4	12	11	19	5.7	143	171	8.1	2.3	.63
10	180	3.1	9.5	13	10	70	5.8	39	256	8.9	2.4	.65
11	55	2.7	10	14	9.0	138	6.0	201	129	7.9	1.9	.86
12	23	2.4	10	15	7.0	100	8.4	108	174	5.9	1.5	.68
13	16	2.2	10	15	5.4	110	10	46	149	5.2	1.1	.56
14	14	2.2	11	16	6.4	84	6.2	121	84	6.2	1.2	.60
15	13	2.0	11	17	6.9	119	3.4	81	56	7.2	1.7	.48
16	12	2.0	12	15	7.7	200	5.1	48	44	6.8	2.1	.54
17	11	2.7	13	13	9.0	89	5.7	70	34	6.6	1.5	1.5
18	15	3.3	14	11	13	28	6.0	33	26	8.4	.70	3.8
19	96	9.5	14	12	19	15	5.9	23	23	8.5	.51	4.2
20	66	9.4	12	14	35	11	5.4	20	20	6.4	.35	6.9
21	41	9.2	13	14	60	9.0	6.1	17	20	5.9	.30	11
22	27	9.2	14	13	52	7.6	6.3	12	19	6.2	.25	5.0
23	19	10	15	13	44	6.6	6.7	12	17	6.4	.25	4.9
24	16	11	14	15	36	6.0	6.2	11	16	7.1	.21	4.2
25	14	11	13	15	29	5.8	6.9	9.7	15	8.3	.24	3.9
26	13	10	13	16	22	5.6	6.8	10	18	6.9	11	3.9
27	12	9.4	12	17	20	5.6	4.8	11	11	7.0	9.6	3.7
28	6.9	8.8	12	15	18	13	5.8	9.6	11	5.9	7.7	3.7
29	3.8	8.2	11	14	---	7.0	5.6	11	11	5.7	2.6	3.8
30	3.1	9.0	10	12	---	6.6	6.5	11	93	4.9	1.2	3.9
31	2.6	---	9.5	14	---	6.4	---	12	---	4.7	1.5	---
TOTAL	766.6	165.3	358.4	392.9	529.4	1180.2	184.0	1270.3	1789.8	265.1	80.71	78.40
MEAN	24.7	5.51	11.6	12.7	18.9	38.1	6.13	41.0	59.7	8.55	2.60	2.61
MAX	180	11	15	17	60	200	10	201	256	35	11	11
MIN	2.1	1.9	9.0	6.0	5.4	5.6	3.4	9.6	8.8	4.7	.21	.48
AC-FT	1520	328	711	779	1050	2340	365	2520	3550	526	160	156

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1995, BY WATER YEAR (WY)

	MEAN	11.4	10.2	9.96	10.5	29.7	80.0	31.3	50.3	68.7	32.5	16.2	8.83
MAX	89.1	29.1	21.3	45.1	195	300	249	399	561	320	107	64.2	
(WY)	1987	1975	1970	1974	1974	1994	1971	1962	1962	1962	1953	1986	
MIN	.000	.19	.38	.34	.88	3.69	.39	.068	.16	.17	.010	.000	
(WY)	1953	1961	1962	1962	1946	1961	1961	1961	1974	1950	1960	1956	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1945 - 1995
ANNUAL TOTAL	14661.26	7061.11	--
ANNUAL MEAN	40.2	19.3	30.0
HIGHEST ANNUAL MEAN	--	--	130
LOWEST ANNUAL MEAN	--	--	5.13
HIGHEST DAILY MEAN	1100	256	6550
LOWEST DAILY MEAN	.19 Jun 27	.21 Aug 24	.00 Jun 16 1962
ANNUAL SEVEN-DAY MINIMUM	.23 Jun 29	.30 Aug 19	.00 Dec 16 1945
INSTANTANEOUS PEAK FLOW	--	482	11900a Jun 16 1962
INSTANTANEOUS PEAK STAGE	--	6.39 Jun 9	19.98 Jun 16 1962
ANNUAL RUNOFF (AC-FT)	29080	14010	21710
10 PERCENT EXCEEDS	65	44	50
50 PERCENT EXCEEDS	11	9.6	8.9
90 PERCENT EXCEEDS	.48	2.1	.50

a From rating curve extended above 4,000 ft³/s on basis of contracted opening measurement of peak flow.

LOCATION.--Lat 43°18'20", long 103°49'14", in SW 1/4 SE 1/4 SE 1/4 sec.36, T.8 S., R.2 E., Fall River County, Hydrologic Unit 10120106, on right bank at downstream side of bridge on U.S. Highway 18, at Edgemont, 300 ft downstream from Burlington Northern Railroad bridge, and 600 ft upstream from Cottonwood Creek.

PERIOD OF RECORD.--June 1903 to November 1906 (no winter records), April 1928 to February 1933 (monthly discharge only), October 1946 to current year.

REVISED RECORDS.--WSP 1086: Drainage area. WSP 1116: 1947. WDR SD-78-1: 1977.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 3,414.56 ft above sea level. Prior to Dec. 1, 1906, nonrecording gage 20 ft upstream at datum 0.7 ft lower. Apr. 11, 1928, to Feb. 28, 1933, Oct. 4, 1946, to Oct. 23, 1947, and Jan. 11, 1961, to Apr. 24, 1963, nonrecording gage, and Oct. 24, 1947, to Jan. 10, 1961, and Apr. 25, 1963, to Sept. 30, 1972, water-stage recorder all at present site at datum 2.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Many small reservoirs above station used for stock and irrigation water, total capacity, about 45,000 acre-ft. U.S. Bureau of Reclamation satellite data-collection platform at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 12, 1920, reached a stage of 13.0 ft and May 1, 1922, 14.0 ft, present datum, from floodmarks at railroad bridge.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	1.0	e15	e18	e60	e60	26	18	69	260	9.4	1.3
2	.21	.58	e25	e17	e45	e55	22	20	67	222	7.4	.69
3	.19	.66	e24	e16	e38	e54	22	22	61	146	7.1	.39
4	.21	.48	e20	e15	e45	e50	23	21	59	112	6.1	.20
5	.33	.38	e10	e14	e44	e40	28	34	59	85	5.4	.18
6	11	.49	e9.0	e15	e40	e35	27	37	146	78	3.8	.17
7	19	.39	e9.0	e16	e35	e30	25	33	180	72	11	.17
8	14	.74	e9.5	e16	e30	e30	21	45	158	69	15	.17
9	13	1.0	e10	e16	e40	e30	19	581	139	56	9.7	.18
10	38	1.4	e9.0	e16	e40	e73	19	1780	683	51	6.6	.16
11	159	1.1	e9.0	e18	e30	174	20	844	435	45	4.8	.15
12	69	.85	e10	e21	e25	179	19	672	406	39	3.3	.18
13	35	.76	e10	e23	e25	137	17	296	464	35	1.9	.17
14	20	.85	e11	e136	e25	126	20	253	338	32	1.4	.17
15	14	7.1	e11	e100	e25	94	22	305	229	31	1.2	.17
16	18	e6.4	e11	e80	e25	107	18	236	166	33	.97	.17
17	17	e8.0	e13	e60	e33	261	16	240	136	31	.77	.17
18	20	e8.0	e13	e50	42	147	15	258	110	29	.60	.19
19	37	e5.0	e12	e50	52	83	15	192	122	27	.45	.57
20	80	e5.0	e12	e40	68	62	15	155	138	27	.42	2.6
21	79	e8.0	e12	e30	97	48	16	133	124	24	.46	6.2
22	51	e8.0	e12	e20	e361	41	17	115	120	19	.27	12
23	35	e7.0	e16	e20	e350	33	17	99	95	18	.22	10
24	22	e7.0	e17	e30	e312	30	16	110	110	16	.22	4.6
25	17	e8.0	e18	e30	137	30	16	117	189	20	.64	3.4
26	13	e8.0	e19	e40	92	26	15	108	120	18	.62	2.5
27	9.2	e9.0	e19	e35	77	31	15	105	99	16	19	1.9
28	10	e10	e19	e25	e64	25	15	95	89	13	16	1.7
29	9.1	e10	e19	e25	---	30	14	78	78	11	10	5.6
30	4.6	e13	e19	e30	---	28	16	75	197	9.3	6.3	8.5
31	1.7	---	e18	e50	---	26	---	79	---	9.9	2.5	---
TOTAL	816.86	138.18	440.5	1072	2257	2175	566	7156	5386	1654.2	153.54	64.55
MEAN	26.4	4.61	14.2	34.6	80.6	70.2	18.9	231	180	53.4	4.95	2.15
MAX	159	13	25	136	361	261	28	1780	683	260	19	12
MIN	.19	.38	9.0	14	25	25	14	18	59	9.3	.22	.15
AC-FT	1620	274	874	2130	4480	4310	1120	14190	10680	3280	305	125

MEAN	16.5	11.3	7.38	7.14	32.7	119	61.6	227	261	131	70.0	27.8
MAX	202	51.0	32.3	34.6	156	506	558	2192	2084	806	388	275
(WY)	1987	1983	1983	1995	1984	1994	1955	1978	1962	1958	1955	1973
MIN	.000	.023	.000	.000	.000	3.39	.22	.27	1.76	.15	.000	.000
(WY)	1961	1962	1960	1950	1960	1961	1961	1960	1966	1985	1960	1950

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR			FOR 1995 WATER YEAR		WATER YEARS 1929-1932, 1947-1995	
ANNUAL TOTAL	22563.04			21879.83		--	
ANNUAL MEAN	61.8			59.9		81.3a	
HIGHEST ANNUAL MEAN	--			--		434	
LOWEST ANNUAL MEAN	--			--		12.0	
HIGHEST DAILY MEAN	1700	Mar	3	1780	May	10	24000
LOWEST DAILY MEAN	.05	Aug	25	.15	Sep	11	.00
ANNUAL SEVEN-DAY MINIMUM	.05	Aug	23	.17	Sep	10	.00
INSTANTANEOUS PEAK FLOW	--			2310		28000	
INSTANTANEOUS PEAK STAGE	--			5.87		13.65	
ANNUAL RUNOFF (AC-FT)	44750			43400			58930
10 PERCENT EXCEEDS	86			138			150c
50 PERCENT EXCEEDS	10			20			10c
90 PERCENT EXCEEDS	.12			.65			.10c

a Median of annual mean discharges, 72 ft³/s.

b No flow at times in most years.

c Reflects water years 1947-95 only.

e Estimated.

LOCATION.--Lat 44°19'19", long 104°56'24", in NW¼ NW¼ sec.17, T.50 N., R.67 W., Crook County, Hydrologic Unit 10120201, on right bank 3.1 mi upstream from bridge on Highway 14, and 4.0 mi northeast of Moorcroft.

DRAINAGE AREA.--1.690 mi².

PERIOD OF RECORD.--May 1943 to September 1970, October 1975 to September 1983, October 1985 to September 1987, October 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,110 ft above sea level, from topographic map. Prior to Mar. 28, 1947, nonrecording gage, and Mar. 28, 1947, to Jan. 16, 1951, water-stage recorder at site 4 mi downstream at different datum. Jan. 17, 1951, to September 1970, water-stage recorder at site 7.9 mi upstream at different datum. September 1970 to Oct. 22, 1993, water-stage recorder at site 8.0 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 2-5, 14, 15, Nov. 18 to Mar. 11, Apr. 19 to May 9, and Sept. 9-30. Records good except those for estimated daily discharges, which are poor. Numerous small stockwater and soil conservation reservoirs upstream from station. Diversions for irrigation upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 360 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 8	0700	391	7.60	May 15	2230	364	7.35
Oct. 18	0030	545	9.06	June 10	2330	382	7.50
Nov. 10	0930	*1,590	*12.98				

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	8.3	8.3	7.4	8.6	8.5	9.0	26	40	15	6.1	11
2	1.3	7.8	8.7	7.1	9.0	7.6	8.3	95	25	15	5.9	11
3	1.1	7.0	8.8	6.7	8.7	7.7	9.0	117	26	19	5.1	9.3
4	3.5	6.6	8.4	6.6	8.2	8.3	9.3	70	25	18	5.0	7.3
5	2.9	7.0	8.0	7.3	8.2	7.6	9.1	46	24	17	5.0	5.4
6	5.5	7.3	7.4	7.7	7.9	6.9	8.5	39	21	16	5.1	5.2
7	41	8.9	7.8	7.3	7.7	7.0	8.1	51	18	15	4.7	5.0
8	294	10	7.9	7.8	7.8	7.8	7.0	100	20	14	3.9	5.0
9	98	10	7.6	8.6	8.0	11	5.7	990	22	13	3.5	4.8
10	42	9.7	7.3	8.9	7.7	23	5.5	1500	131	12	3.3	4.3
11	18	8.1	7.5	8.7	7.3	100	5.4	712	280	12	3.2	3.6
12	10	8.6	7.9	8.6	6.9	179	5.8	246	204	12	3.1	3.0
13	9.3	8.2	8.2	8.4	6.6	160	6.3	152	109	12	3.3	3.0
14	7.5	7.6	8.4	8.6	7.0	167	6.6	120	57	11	5.3	3.0
15	6.6	7.2	7.9	9.2	7.5	130	7.3	198	36	11	5.7	3.0
16	14	7.0	8.1	8.6	8.0	56	6.1	268	31	11	4.8	3.0
17	252	6.9	8.5	7.6	8.6	26	5.5	156	27	9.9	3.7	3.0
18	459	6.6	8.6	7.0	9.0	20	7.8	90	22	9.8	3.5	3.3
19	419	6.3	8.8	6.6	9.3	17	13	65	20	10	3.2	3.1
20	183	6.5	8.5	7.2	9.5	14	13	51	19	18	2.9	3.0
21	75	6.8	8.7	7.2	9.9	11	15	47	20	46	2.6	3.0
22	38	6.4	9.4	6.5	9.8	10	14	80	18	23	2.5	3.0
23	24	6.7	9.7	6.0	9.5	13	14	72	21	18	2.5	3.0
24	19	7.2	10	6.4	10	13	14	59	53	16	2.4	3.0
25	18	7.8	10	6.9	11	12	14	51	43	17	2.4	3.0
26	15	7.8	9.7	7.5	11	11	14	38	24	12	4.5	3.3
27	11	7.6	9.3	7.8	10	9.5	14	35	20	10	79	3.3
28	10	7.1	9.8	7.6	9.3	9.7	14	40	20	9.1	102	3.3
29	10	6.9	9.3	7.2	---	11	14	51	18	8.1	32	3.3
30	9.3	7.6	8.6	7.4	---	9.4	16	55	16	6.9	17	3.3
31	9.0	---	8.1	8.0	---	11	---	52	---	6.4	13	---
TOTAL	2107.2	227.5	265.2	234.4	242.0	1085.0	299.3	5672	1410	443.2	346.2	130.8
MEAN	68.0	7.58	8.55	7.56	8.64	35.0	9.98	183	47.0	14.3	11.2	4.36
MAX	459	10	10	9.2	11	179	16	1500	280	46	102	11
MIN	1.1	6.3	7.3	6.0	6.6	6.9	5.4	26	16	6.4	2.4	3.0
AC=FT	4180	451	526	465	480	2150	594	11250	2800	879	687	250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEAR (WY)

MEAN	4.07	1.32	1.72	1.98	17.3	60.1	23.0	74.0	66.6	20.3	10.7	5.47
MAX	68.0	9.92	22.3	27.7	260	374	190	1057	509	72.5	57.3	63.5
(WY)	1995	1987	1956	1983	1962	1978	1944	1978	1964	1948	1993	1951
MIN	.000	.000	.000	.000	.000	.10	.000	.045	.097	.000	.000	.000
(WY)	1944	1944	1944	1944	1944	1951	1961	1958	1966	1954	1944	1944

SUMMARY STATISTICS

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR			FOR 1995 WATER YEAR			WATER YEARS 1944 - 1995		
ANNUAL TOTAL	13430.40			12462.8			--		
ANNUAL MEAN	36.8			34.1			23.9		
HIGHEST ANNUAL MEAN	--			--			136		
LOWEST ANNUAL MEAN	--			--			1.14		
HIGHEST DAILY MEAN	1400	Mar	3	1500	May	10	10300	May	19
LOWEST DAILY MEAN	.65	Sep	14	1.1	Oct	3	.00	Oct	1
ANNUAL SEVEN-DAY MINIMUM	.72	Sep	9	2.6	Aug	19	.00	Oct	1
INSTANTANEOUS PEAK FLOW	--			1590	May	10	15300a	May	19
INSTANTANEOUS PEAK STAGE	--			12.98	May	10	14.60b	May	19
ANNUAL RUNOFF (AC-FT)	26640			24720			17340		
10 PERCENT EXCEEDS	61			58			32		
50 PERCENT EXCEEDS	8.4			9.0			.86		
90 PERCENT EXCEEDS	2.1			3.7			.00		

b From floodmarks in gage shelter, site and datum then in use.

CHEYENNE RIVER BASIN

06426500 BELLE FOURCHE RIVER BELOW MOORCROFT, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947-57, 1975-93, October 1994 to September 1995.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 13...	0810	10	1350	7.8	8.0	5.0	665	9.6
MAR 08...	1215	7.4	299	7.7	0.0	-6.0	656	10.1
MAY 24...	0840	65	1550	8.0	12.0	9.5	661	7.9
AUG 30...	0810	18	759	7.7	18.5	16.0	662	5.8

DATE	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 13...	93	310	<0.01	0.10	0.02	<0.01	51
MAR 08...	80	29	0.06	8.60	0.52	0.42	290
MAY 24...	85	210	0.01	0.29	0.02	<0.01	93
AUG 30...	72	K4900	<0.01	<0.05	<0.02	<0.01	4

K-Results based on colony count outside the acceptable range (non-ideal colony count).

06427000 KEYHOLE RESERVOIR NEAR MOORCROFT, WY

LOCATION.--Lat 44°22'55", long 104°46'45", in NW¹/₄ NW¹/₄ sec.27, T.51 N., R.66 W., Crook County, Hydrologic Unit 10120201, at reservoir dam on Belle Fourche River 12 mi northeast of Moorcroft.

DRAINAGE AREA.--1,953 mi².

PERIOD OF RECORD.--March 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (Bureau of Reclamation datum). Prior to May 15, 1958, and Oct. 1, 1968 to Mar. 13, 1970, nonrecording gages; May 15 1958, to Sept. 30, 1968, water-stage recorder; all at present site and datum.

REMARKS.--Reservoir is formed by a zoned earthfill dam completed by the Bureau of Reclamation Oct. 25, 1952. Storage began Feb. 12, 1952. Dead storage, below elevation 4,036.0 ft, 730 acre-ft. Inactive storage, between elevations 4,036.0 ft and 4,051.0 ft, 7,230 acre-ft. Total capacity below elevation 4,099.3 ft, crest of spillway, 193,800 acre-ft. Figures given herein represent total contents. The reservoir provides flood control and water for irrigation in Wyoming and near Belle Fourche, SD.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 210,200 acre-ft, May 21, 1978, elevation, 4,100.38 ft; minimum daily contents (since appreciable storage was attained), 6,030 acre-ft, May 8, 9, 1955, elevation, 4,046.35 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 112,400 acre-ft, June 13, elevation, 4,088.62 ft; minimum daily contents, 85,480 acre-ft, Oct. 1, elevation, 4,083.58 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	4,083.57	85,430	-
Oct. 31	4,084.95	92,200	+6,770
Nov. 30	4,085.05	92,700	+500
Dec. 31	4,085.03	92,600	-100
CAL YR 1994	-	-	+23,670
Jan. 31	4,085.12	93,060	+460
Feb. 28	4,085.14	93,160	+100
Mar. 31	4,085.72	96,160	+3,000
Apr. 30	4,085.83	96,730	+570
May 31	4,088.22	110,000	+13,270
June 30	4,088.48	111,500	+1,500
July 31	4,088.36	110,800	-700
Aug. 31	4,087.85	107,900	-2,900
Sept. 30	4,087.52	106,000	-1,900
WTR YR 1995	-	-	+20,570

CHEYENNE RIVER BASIN

06427500 BELLE FOURCHE RIVER BELOW KEYHOLE RESERVOIR, WY

LOCATION.--Lat 44°23'18", long 104°46'12", in SE¹/₄ NE¹/₄ SW¹/₄ sec.22, T.51 N., R.66 W., Crook County, Hydrologic Unit 10120201, on right bank 0.9 mi downstream from Keyhole Dam, 1.7 mi downstream from Mule Creek, 2.9 mi upstream from Spring Creek, and 12 mi northeast of Moorcroft.

DRAINAGE AREA.--1,954 mi².

PERIOD OF RECORD.--April 1951 to 1995 (discontinued).

REVISED RECORDS.--WDR WY-89-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,020 ft above sea level, from topographic map. Prior to Aug. 30, 1979, at site 0.7 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 20 to Nov. 30, and Mar. 10 to Sept. 30. Records poor. Flow completely regulated by Keyhole Reservoir, 0.9 mi upstream, since February 1952. (See Sta 06427000.)

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.5	1.6	1.6	1.6	1.7	1.6	1.8	1.6	1.6	1.6	1.6
2	2.3	1.5	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
3	2.3	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
4	2.2	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.9	1.6	1.6	1.6
5	2.2	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.6	1.6
6	3.0	1.5	1.6	1.6	1.6	1.7	1.6	1.6	1.6	1.6	1.6	1.6
7	2.1	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.6	1.6
8	1.4	1.5	1.5	1.6	1.6	1.6	1.6	2.3	1.6	1.8	1.6	1.6
9	1.4	1.5	1.6	1.6	1.6	1.6	1.9	3.7	1.9	1.6	1.6	1.6
10	1.5	1.5	1.6	1.6	1.6	1.6	1.8	2.5	2.1	1.6	1.6	1.6
11	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
12	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
13	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.6	1.6	1.6	1.6
14	1.6	1.6	1.6	1.5	1.6	1.6	1.6	1.8	1.6	1.6	1.6	1.6
15	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
16	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.6	1.6	1.8	1.6	1.6
17	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
18	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
19	1.5	1.6	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.6	1.6
20	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
21	1.5	1.6	1.6	1.6	1.6	1.6	1.9	1.6	1.6	1.6	1.6	1.6
22	1.5	1.6	1.6	1.6	1.5	1.6	1.6	1.6	1.8	1.8	1.6	1.6
23	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.6	1.6	1.6
24	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.6	1.6
25	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.9	1.6
26	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.6	1.6	1.8	1.6
27	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.6	1.6	1.8	1.6
28	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.6	1.6	1.6	1.6
29	1.5	1.6	1.6	1.6	---	1.6	1.8	1.8	1.6	1.6	1.6	1.6
30	1.5	1.6	1.6	1.6	---	1.6	1.8	1.6	1.6	1.6	1.6	1.6
31	1.5	---	1.6	1.6	---	1.6	---	1.6	---	1.6	1.6	---
TOTAL	52.9	46.8	49.2	49.4	44.7	49.8	49.4	54.8	49.5	51.3	50.3	48.0
MEAN	1.71	1.56	1.59	1.59	1.60	1.61	1.65	1.77	1.65	1.65	1.62	1.60
MAX	3.0	1.6	1.6	1.6	1.6	1.7	1.9	3.7	2.1	1.9	1.9	1.6
MIN	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
AC-FT	105	93	98	98	89	99	98	109	98	102	100	99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

MEAN	2.34	1.59	1.50	1.46	4.17	17.3	14.0	33.0	35.2	65.7	66.3	17.3
MAX	20.8	8.70	5.56	3.65	120	423	154	459	317	195	307	126
(WY)	1973	1955	1955	1955	1962	1972	1962	1978	1978	1981	1980	1955
MIN	.50	.12	.10	.000	.000	.33	.34	.45	.54	.62	.70	.45
(WY)	1962	1952	1952	1952	1952	1952	1952	1952	1959	1961	1961	1955

SUMMARY STATISTICS

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1951 - 1995	
ANNUAL TOTAL	6345.82		596.1		--	
ANNUAL MEAN	17.4		1.63		22.0	
HIGHEST ANNUAL MEAN	--		--		80.6	
LOWEST ANNUAL MEAN	--		--		1.63	
HIGHEST DAILY MEAN	84	Jul 18	3.7	May 9	1350	May 24 1978
LOWEST DAILY MEAN	.90	Feb 8	1.4	Oct 8,9	.00	Several days, 1951-1952
ANNUAL SEVEN-DAY MINIMUM	.99	Feb 3	1.5	Oct 19	.00	Several days, 1951-1952
INSTANTANEOUS PEAK FLOW	--		4.5a Oct 6		1410	May 23 1978
INSTANTANEOUS PEAK STAGE	--		7.36b Jul 10		10.65c	May 23 1978
ANNUAL RUNOFF (AC-FT)	12590		1180		15950	
10 PERCENT EXCEEDS	76		1.8		90	
50 PERCENT EXCEEDS	1.6		1.6		1.7	
90 PERCENT EXCEEDS	1.2		1.6		.60	

a Gage height, 5.32 ft.

b Backwater from beaver dam.

c Present site and datum.

06428050 BELLE FOURCHE RIVER BELOW HULETT, WY

LOCATION.--Lat 44°42'04", long 104°35'07", in SW¹/₄ NE¹/₄ sec.6, T.54 N., R.64 W., Crook County, Hydrologic Unit 10120201, at bridge, 1.3 mi northeast of Hulett, and 4.7 mi downstream from Blacktail Creek.

PERIOD OF RECORD.--February 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)
OCT							
12...	1150	35	1340	7.6	9.5	7.5	665
JAN							
24...	1130	13	2010	6.8	0.0	2.0	668
MAY							
23...	1355	85	1390	8.2	15.0	15.0	672
AUG							
29...	1530	19	1660	8.3	28.0	30.0	664

DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT							
12...	10.4	105	720	<0.01	<0.05	<0.02	<0.01
JAN							
24...	11.6	91	28	<0.01	0.17	0.13	<0.01
MAY							
23...	9.7	110	72	<0.01	0.05	0.02	<0.01
AUG							
29...	7.9	117	37	<0.01	<0.05	<0.02	<0.01

06428200 BELLE FOURCHE RIVER NEAR ALVA, WY

LOCATION.--Lat 44°47'22", long 104°28'51" in NE¹/₄ NE¹/₄ sec.1, T.55 N., R.64 W., Crook County, Hydrologic Unit 10120201, on right bank 0.3 mi downstream from Beaver Creek and 6.7 miles north of Alva.

DRAINAGE AREA.--2,948 mi².

PERIOD OF RECORD.--October 1988 to current year (no winter record).

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

REMARKS.--Estimated daily discharges: May 9-31. Records good except those for estimated daily discharges, which are poor. Major regulation by Keyhole Reservoir. Streamflow also affected by diversions for irrigation and return flow from irrigated areas. Result of discharge measurement, in cubic feet per second, made during the period when station was not in operation is given below:

Oct. 3 . . . 17.1

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	42	59	213	95	44	24
2	---	---	---	---	---	---	40	94	188	95	44	24
3	---	---	---	---	---	---	39	116	237	96	42	24
4	---	---	---	---	---	---	38	115	332	100	42	23
5	---	---	---	---	---	---	37	100	246	105	41	24
6	---	---	---	---	---	---	37	88	203	106	41	24
7	---	---	---	---	---	---	37	87	167	105	40	25
8	---	---	---	---	---	---	36	783	183	105	38	25
9	---	---	---	---	---	---	39	2000	231	101	36	27
10	---	---	---	---	---	---	41	1550	464	95	35	27
11	---	---	---	---	---	---	39	850	473	94	35	26
12	---	---	---	---	---	---	39	720	350	91	35	25
13	---	---	---	---	---	---	38	630	254	85	33	25
14	---	---	---	---	---	---	38	560	183	78	32	25
15	---	---	---	---	---	---	40	485	171	74	32	25
16	---	---	---	---	---	---	40	425	149	81	30	24
17	---	---	---	---	---	---	41	380	133	75	28	23
18	---	---	---	---	---	---	44	345	125	76	28	23
19	---	---	---	---	---	---	44	310	112	74	28	25
20	---	---	---	---	---	---	42	285	103	73	27	28
21	---	---	---	---	---	---	44	260	112	69	27	31
22	---	---	---	---	---	---	46	240	121	69	26	31
23	---	---	---	---	---	---	47	220	129	68	26	32
24	---	---	---	---	---	---	57	210	123	64	51	33
25	---	---	---	---	---	---	53	200	108	73	43	32
26	---	---	---	---	---	---	52	190	101	67	37	32
27	---	---	---	---	---	---	51	190	96	59	36	32
28	---	---	---	---	---	---	50	200	95	55	35	31
29	---	---	---	---	---	---	51	255	95	50	32	31
30	---	---	---	---	---	---	54	320	95	46	28	30
31	---	---	---	---	---	---	---	270	---	44	26	---
TOTAL	---	---	---	---	---	---	1296	12537	5592	2468	1078	811
MEAN	---	---	---	---	---	---	43.2	404	186	79.6	34.8	27.0
MAX	---	---	---	---	---	---	57	2000	473	106	51	33
MIN	---	---	---	---	---	---	36	59	95	44	26	23
AC-FT	---	---	---	---	---	---	2570	24870	11090	4900	2140	1610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

MEAN	12.4	---	---	---	---	---	44.6	130	93.9	82.6	70.0	30.6
MAX	14.4	---	---	---	---	---	140	404	204	109	106	49.7
(WY)	1989	---	---	---	---	---	1994	1995	1993	1989	1989	1993
MIN	10.3	---	---	---	---	---	8.82	37.3	32.8	44.8	34.8	15.0
(WY)	1990	---	---	---	---	---	1992	1992	1992	1992	1995	1992

SUMMARY STATISTICS
HIGHEST DAILY MEAN
LOWEST DAILY MEAN
ANNUAL SEVEN-DAY MINIMUM
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

FOR 1995 WATER YEAR*

2000 May 9
23 Sep 3,17,18
--
2690 May 8
6.76a May 8
--
--
--

WATER YEARS 1989 - 1995*

2000 May 9 1995
3.1 Jun 11 1992
5.2 Apr 4 1992
2690 May 8 1995
6.76a May 8 1995
119
53
13

* During period of operation.

a From floodmarks.

LOCATION.--Lat 44°44'59", long 104°02'49", in NE1/4 NW1/4 NW1/4 sec.18, T.9 N., R.1 E., Butte County, Hydrologic Unit 10120202, on left bank 0.3 mi downstream from State line, 3.7 mi downstream from Oak Creek, and 11 mi northwest of Belle Fourche, SD.

PERIOD OF RECORD.--December 1946 to current year. Records for water year 1947 incomplete, yearly estimate published in WSP 1729.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 5,400 acres. Flow regulated by Keyhole Dam, usable capacity, 191,600 acre-ft, 143 mi upstream since Oct. 25, 1952. Maximum discharge prior to regulation, 3,620 ft³/s, June 23, 1947, gage height, 12.51 ft; maximum gage height, 14.33 ft, Mar. 22, 1949, backwater from ice; no flow at times some years.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	36	e20	e14	e20	e46	59	154	346	132	55	39
2	20	34	e24	e13	e20	e36	56	504	303	126	54	36
3	20	33	e24	e12	e20	e30	55	244	269	122	53	34
4	21	33	e20	e12	e20	e26	55	199	365	120	51	34
5	22	e33	e15	e11	e19	e24	55	160	414	121	51	36
6	63	e33	e15	e11	e18	e24	52	138	331	120	49	34
7	296	e33	e15	e11	e17	e24	51	123	281	124	47	32
8	100	32	e16	e11	e17	e28	50	1730	259	119	45	32
9	160	32	e17	e13	e17	e40	50	4760	365	111	45	32
10	182	32	e16	e14	e16	e78	52	4090	878	108	44	32
11	95	32	e16	e15	e15	e115	54	2510	747	101	44	32
12	70	32	e16	e16	e14	232	54	1680	613	95	42	33
13	60	31	e17	e16	e14	287	52	1580	488	93	41	32
14	53	31	e18	e16	e14	362	50	1460	386	210	40	31
15	47	30	e18	e16	e14	334	50	984	328	158	40	31
16	61	34	e18	e15	e15	467	52	910	280	108	39	30
17	71	34	e19	e15	e16	327	54	765	247	97	38	29
18	88	e24	e19	e15	e18	316	55	648	229	95	36	29
19	101	e20	e20	e15	e20	247	57	569	214	88	36	33
20	113	e20	e20	e17	e25	179	57	476	197	90	35	33
21	94	e21	e20	e17	e32	141	58	434	186	88	35	31
22	75	e22	e21	e17	e40	118	56	367	242	88	34	32
23	60	e22	e22	e18	e50	105	58	310	397	91	34	32
24	52	e21	e22	e18	e62	96	59	274	229	83	40	32
25	47	e20	e22	e18	e80	89	60	252	200	110	37	33
26	44	e19	e22	e18	e69	81	63	242	180	92	64	33
27	42	e19	e22	e19	e66	71	63	240	164	83	55	33
28	39	e19	e20	e19	e49	68	64	344	152	74	45	33
29	38	e18	e17	e19	---	67	64	469	142	67	44	33
30	36	e18	e15	e20	---	65	82	546	137	61	41	33
31	36	---	e14	e20	---	64	---	419	---	57	41	---
TOTAL	2224	818	580	481	797	4187	1697	27581	9569	3232	1355	979
MEAN	71.7	27.3	18.7	15.5	28.5	135	56.6	890	319	104	43.7	32.6
MAX	296	36	24	20	80	467	82	4760	878	210	64	39
MIN	18	18	14	11	14	24	50	123	137	57	34	29
AC-FT	4410	1620	1150	954	1580	8300	3370	54710	18980	6410	2690	1940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 = 1955, BY WATER YEAR (WY)												
MEAN	25.3	20.1	15.6	13.8	27.3	141	148	224	185	96.7	74.5	34.2
MAX	118	65.9	41.0	59.4	117	931	823	1104	812	303	271	109
(WY)	1972	1972	1974	1974	1962	1972	1971	1978	1984	1981	1980	1955
MIN	.000	.000	.000	.000	.20	15.7	15.1	3.10	11.9	2.94	.10	.000
(WY)	1955	1961	1961	1961	1959	1981	1992	1961	1961	1960	1961	1954

* Regulated period only (1954-95). See REMARKS.
a No flow at times in some years.
b Based on slope-area measurement of peak flow.
e Estimated.

06429500 COLD SPRINGS CREEK AT BUCKHORN, WY

LOCATION.--Lat 44°09'15", long 104°04'37", in NW¹/₄ NW¹/₄ SW¹/₄ sec.9, T.48 N., R.60 W., Weston County, Hydrologic Unit 10120303, on right bank at downstream end of culvert at U.S. Highway 85 and 0.5 mi northeast of Buckhorn.
 DRAINAGE AREA.--19.0 mi².
 PERIOD OF RECORD.--October 1974 to September 1982, April 1991 to current year.
 GAGE.--Water-stage recorder. Elevation of gage is 6,050 ft above sea level, from topographic map. October 1974 to September 1982, 200 ft upstream at different datum.
 REMARKS.--Estimated daily discharges: Oct. 29-31, Nov. 4-6, 14, 16, 17, Nov. 20 to Dec. 2, Dec. 10-17, and Jan. 1 to Apr. 5. Records excellent except those for estimated daily discharges which are poor. No diversion upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	3.1	2.2	2.5	3.6	2.5	3.5	3.6	3.5	3.0	2.5	2.9
2	3.1	3.1	2.9	2.4	3.6	2.1	3.6	3.6	3.5	3.0	2.5	3.0
3	3.1	3.1	3.0	2.4	3.6	2.5	3.6	3.6	3.5	3.0	2.5	3.0
4	3.1	2.4	3.0	2.4	3.6	3.0	3.6	3.6	3.5	3.0	2.5	3.0
5	3.1	2.6	3.0	2.3	3.4	2.7	3.6	3.6	3.5	2.9	2.6	3.0
6	3.4	2.9	3.1	2.3	3.0	2.5	3.6	3.7	3.4	2.8	2.6	3.0
7	3.0	3.1	3.1	2.5	2.5	2.2	3.6	3.7	3.3	2.7	2.5	3.0
8	3.0	3.1	2.9	2.7	2.6	2.2	3.6	4.1	3.3	2.7	2.5	3.0
9	3.0	3.1	1.7	3.0	2.7	2.6	3.6	4.0	3.3	2.7	2.5	3.0
10	3.0	3.1	1.8	3.3	2.6	3.0	3.6	3.9	3.5	2.7	2.5	3.0
11	2.9	3.1	2.1	3.5	2.3	3.8	3.4	3.8	3.5	2.5	2.6	3.0
12	2.8	3.1	2.3	3.5	2.0	3.9	3.8	3.9	3.5	2.4	2.7	3.0
13	2.8	3.1	2.4	3.6	1.8	3.7	3.7	4.0	3.5	2.4	2.7	3.0
14	2.8	2.8	2.6	3.7	1.7	3.8	3.6	3.8	3.4	2.4	2.8	3.0
15	2.8	2.3	2.7	3.8	1.7	3.9	3.6	3.8	3.3	2.7	2.8	3.1
16	3.0	3.3	2.8	3.7	1.8	3.8	3.6	3.8	3.3	2.7	2.8	3.0
17	3.0	3.1	3.0	3.5	2.0	3.6	3.6	3.8	3.3	2.5	2.8	3.0
18	3.0	2.8	3.1	3.0	2.5	3.7	3.6	3.8	3.3	2.5	2.8	3.0
19	3.0	2.5	3.1	3.1	2.8	3.9	3.4	3.6	3.3	2.5	2.9	3.0
20	3.0	2.1	3.1	3.3	3.0	3.7	3.7	3.6	3.3	2.5	2.8	3.0
21	3.0	1.8	3.1	3.1	3.3	3.8	3.8	3.6	3.3	2.5	2.8	3.0
22	3.0	1.7	3.1	3.3	3.4	3.9	3.6	3.6	3.2	2.5	2.8	2.9
23	3.1	2.1	3.0	3.6	3.7	3.6	3.6	3.6	3.1	2.5	2.8	3.0
24	3.1	2.3	3.1	3.7	3.5	3.8	3.6	3.6	3.1	2.5	2.8	3.0
25	3.2	2.4	3.1	3.7	3.9	3.6	3.6	3.6	3.1	2.6	2.9	3.0
26	3.2	2.7	3.1	3.8	3.7	3.5	3.6	3.6	3.1	2.5	2.9	3.0
27	3.1	2.1	3.0	3.8	3.5	3.3	3.6	3.5	3.1	2.5	2.8	2.8
28	3.1	1.7	3.0	3.7	3.1	3.2	3.6	3.5	3.1	2.5	2.8	2.8
29	3.1	1.5	3.0	3.5	---	3.2	3.6	3.5	3.1	2.5	2.8	2.8
30	2.7	1.7	3.0	3.6	---	3.2	3.6	3.5	3.1	2.5	2.8	2.8
31	2.9	---	2.6	3.6	---	3.5	---	3.5	---	2.5	2.8	---
TOTAL	93.5	77.8	87.0	99.9	80.9	101.7	108.1	114.4	99.3	81.2	83.9	89.1
MEAN	3.02	2.59	2.81	3.22	2.89	3.28	3.60	3.69	3.31	2.62	2.71	2.97
MAX	3.4	3.3	3.1	3.8	3.9	3.9	3.8	4.1	3.5	3.0	2.9	3.1
MIN	2.7	1.5	1.7	2.3	1.7	2.1	3.4	3.5	3.1	2.4	2.5	2.8
AC-FT	185	154	173	198	160	202	214	227	197	161	166	177

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	4.14	3.94	3.94	3.84	3.93	4.17	4.46	4.27	4.35	4.21	4.34	4.25									
MAX	5.58	5.48	5.59	5.09	5.43	5.54	6.17	5.37	5.55	5.90	5.84	5.63									
(WY)	1978	1977	1977	1981	1976	1976	1976	1978	1978	1976	1980	1975									
MIN	2.53	2.09	2.06	2.50	2.61	2.91	3.07	3.10	3.19	2.69	2.71	2.92									
(WY)	1975	1993	1993	1994	1993	1993	1993	1993	1994	1995	1995	1994									

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1975 - 1995
ANNUAL TOTAL	1113.9	1116.8	--
ANNUAL MEAN	3.05	3.06	4.18
HIGHEST ANNUAL MEAN	--	--	5.37
LOWEST ANNUAL MEAN	--	--	2.92
HIGHEST DAILY MEAN	4.9 Apr 25	4.1 May 8	9.5 Apr 22 1980
LOWEST DAILY MEAN	1.5 Nov 29	1.5 Nov 29	.36 Nov 4 1992
ANNUAL SEVEN-DAY MINIMUM	2.0 Nov 25	1.9 Feb 11	1.2 Nov 2 1992
INSTANTANEOUS PEAK FLOW	--	4.9a Apr 12, 19	13b Apr 1 1981
INSTANTANEOUS PEAK STAGE	--	3.17c Dec 14	8.61d Jan 12 1978
ANNUAL RUNOFF (AC-FT)	2210	2220	3030
10 PERCENT EXCEEDS	3.6	3.7	5.5
50 PERCENT EXCEEDS	3.0	3.1	4.3
90 PERCENT EXCEEDS	2.4	2.5	2.8

a Gage height, 2.23 ft.

b Gage height, 4.98 ft, site and datum then in use.

c Backwater from ice.

d Backwater from ice, site and datum then in use.

06429905 SAND CREEK NEAR RANCH A, NEAR BEULAH, WY

LOCATION.--Lat 44°31'07", long 104°04'57", in SE¹/4 SE¹/4 SW¹/4 sec.5, T.52 N., R.60 W., Crook County, Hydrologic Unit 10120303, on right bank 1.0 mi upstream from Bear Gulch and 1.8 mi south of Beulah.

DRAINAGE AREA.--267 mi².

PERIOD OF RECORD.--October 1976 to September 1983, April 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,580 ft above sea level, from topographic map. October 1976 to September 1983, at site 500 ft downstream at different datum.

REMARKS.--Estimated daily discharges: Jan. 4, and May 8, 9. Records good except those for estimated daily discharges, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	17	17	16	16	16	16	19	25	28	25	22
2	17	17	17	16	17	16	16	19	26	28	25	21
3	17	17	17	16	16	16	16	19	26	28	24	21
4	17	17	17	15	16	16	16	18	26	28	24	21
5	17	17	17	17	16	16	16	18	27	27	24	22
6	19	17	17	16	16	16	16	18	27	27	24	21
7	18	17	17	16	16	16	16	19	27	28	24	21
8	17	17	17	16	16	16	16	211	28	27	23	21
9	16	17	17	16	16	16	17	455	29	26	23	21
10	16	17	17	16	16	16	17	212	29	28	24	21
11	16	17	17	16	16	16	17	133	28	27	24	21
12	17	17	17	16	16	16	17	92	28	26	24	21
13	17	17	16	16	16	16	17	152	27	26	23	20
14	17	17	16	16	16	16	17	103	27	26	23	20
15	17	17	16	16	16	16	17	71	28	27	23	20
16	17	17	16	16	16	16	17	48	28	27	23	20
17	18	18	17	16	16	16	17	36	27	26	22	20
18	18	18	17	16	16	16	18	27	27	26	23	21
19	17	17	17	16	16	16	17	23	27	26	23	23
20	17	17	17	16	16	16	17	22	25	26	23	22
21	17	17	16	16	16	16	18	22	28	26	23	22
22	17	17	16	16	16	16	17	22	30	27	22	21
23	17	17	16	16	16	16	17	22	30	26	22	21
24	17	17	16	16	16	16	17	22	30	26	23	21
25	17	17	16	16	16	16	18	22	30	26	22	21
26	17	17	17	16	16	16	18	22	29	25	23	21
27	17	17	17	16	16	16	18	25	29	25	22	21
28	17	17	16	16	16	16	18	42	28	25	22	21
29	17	17	16	16	---	16	18	37	28	24	22	21
30	17	17	16	16	---	16	18	31	27	25	22	21
31	17	---	16	17	---	16	---	26	---	25	22	---
TOTAL	529	512	514	497	449	496	510	2008	831	818	716	631
MEAN	17.1	17.1	16.6	16.0	16.0	16.0	17.0	64.8	27.7	26.4	23.1	21.0
MAX	19	18	17	17	17	16	18	455	30	28	25	23
MIN	16	17	16	15	16	16	16	18	25	24	22	20
AC-FT	1050	1020	1020	986	891	984	1010	3980	1650	1620	1420	1250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1995, BY WATER YEAR (WY)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	20.8	20.8	20.4	19.8	18.8	19.2	20.4	31.0	24.6	22.9	20.9	20.4							
MAX	28.5	28.2	26.3	25.9	25.0	27.0	30.8	64.8	36.3	31.2	28.5	28.3							
(WY)	1978	1978	1979	1979	1977	1978	1978	1995	1978	1978	1978	1978							
MIN	15.3	16.0	15.7	15.6	14.9	14.7	15.3	15.5	15.5	15.2	14.4	15.1							
(WY)	1993	1993	1993	1993	1993	1992	1992	1992	1992	1992	1992	1992							

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1977 - 1995
ANNUAL TOTAL	6302	8511	--
ANNUAL MEAN	17.3	23.3	22.0
HIGHEST ANNUAL MEAN	--	--	29.5
LOWEST ANNUAL MEAN	--	--	15.7
HIGHEST DAILY MEAN	30	455	455
LOWEST DAILY MEAN	13	15	12
ANNUAL SEVEN-DAY MINIMUM	15	16	13
INSTANTANEOUS PEAK FLOW	--	1230	1230
INSTANTANEOUS PEAK STAGE	--	3.80a	3.80a
ANNUAL RUNOFF (AC-FT)	12500	16880	15910
10 PERCENT EXCEEDS	19	27	28
50 PERCENT EXCEEDS	17	17	20
90 PERCENT EXCEEDS	16	16	16

a From floodmarks, present site and datum.

06429997 MURRAY DITCH ABOVE HEADGATE AT WYOMING-SOUTH DAKOTA STATE LINE

LOCATION.--Lat 44°34'35", long 104°03'20", in SW¹/₄ SW¹/₄ sec.7, T.7 N., R.1 E., Butte County, Hydrologic Unit 10120203, on right bank at State line and 12 mi southwest of Belle Fourche, SD.

PERIOD OF RECORD.--April 1987 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 3,440 ft above sea level, from topographic map. Prior to Apr. 23, 1987, published as 06430000 (below diversion at site 15 ft downstream).

REMARKS.--Records good except those for estimated daily discharges, which are fair. Ditch diverts water from left bank of Redwater Creek, 2.0 mi upstream, for irrigation of about 700 acres. Flow maintained during irrigation season only.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	.01	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	12	6.9
2	4.2	.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	7.6	7.1
3	4.4	.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	3.2	7.2
4	5.3	.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	3.1	8.0
5	5.1	.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	1.4	8.8
6	12	.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	2.7	9.0
7	12	.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	2.9	6.3
8	11	.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	2.7	6.9
9	13	.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	3.1	6.9
10	10	e.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	6.5	6.5
11	9.8	e.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	6.5	6.9
12	.15	e.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	6.7	8.5
13	.04	e.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	8.1	9.9
14	.03	e.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	8.1	13
15	.11	e.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	9.1	13
16	.22	e.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	9.2	14
17	.31	e.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	9.2	14
18	.31	e.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	9.1	15
19	.18	e.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	8.7	18
20	.18	e.00	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	8.7	18
21	.18	e.00	e.00	e.00	e.00	e.00	e.00	e.00	.11	4.8	8.7	17
22	.21	e.00	e.00	e.00	e.00	e.00	e.00	e.00	.07	13	8.7	17
23	.20	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	13	8.6	16
24	1.5	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	13	8.4	17
25	3.2	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	13	8.0	17
26	3.1	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	14	8.5	18
27	3.1	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	14	8.2	18
28	3.0	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	13	8.0	18
29	3.0	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	12	7.5	19
30	3.0	e.00	e.00	e.00	e.00	e.00	e.00	.00	.00	12	7.3	23
31	1.8	---	e.00	e.00	e.00	e.00	---	.00	---	12	7.2	---
TOTAL	115.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.18	133.80	217.7	383.9
MEAN	3.71	.000	.000	.000	.000	.000	.000	.000	.006	4.32	7.02	12.8
MAX	13	.01	.00	.00	.00	.00	.00	.00	.11	14	12	23
MIN	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.4	6.3
AC-FT	228	.02	.00	.00	.00	.00	.00	.00	.4	265	432	761

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1988	6.94	20.6	1991	.000	1988
1989	.21	.94	1992	.000	1988
1990	.000	.000	1993	.000	1988
1991	.000	.000	1994	.000	1988
1992	.000	.000	1995	.000	1988
1993	.000	.000	1996	.000	1988
1994	.000	.000	1997	.000	1988
1995	.000	.000	1998	.000	1988
1996	.000	.000	1999	.000	1988
1997	.000	.000	2000	.000	1988
1998	.000	.000	2001	.000	1988
1999	.000	.000	2002	.000	1988
2000	.000	.000	2003	.000	1988
2001	.000	.000	2004	.000	1988
2002	.000	.000	2005	.000	1988
2003	.000	.000	2006	.000	1988
2004	.000	.000	2007	.000	1988
2005	.000	.000	2008	.000	1988
2006	.000	.000	2009	.000	1988
2007	.000	.000	2010	.000	1988
2008	.000	.000	2011	.000	1988
2009	.000	.000	2012	.000	1988
2010	.000	.000	2013	.000	1988
2011	.000	.000	2014	.000	1988
2012	.000	.000	2015	.000	1988
2013	.000	.000	2016	.000	1988
2014	.000	.000	2017	.000	1988
2015	.000	.000	2018	.000	1988
2016	.000	.000	2019	.000	1988
2017	.000	.000	2020	.000	1988
2018	.000	.000	2021	.000	1988
2019	.000	.000	2022	.000	1988
2020	.000	.000	2023	.000	1988
2021	.000	.000	2024	.000	1988
2022	.000	.000	2025	.000	1988
2023	.000	.000	2026	.000	1988
2024	.000	.000	2027	.000	1988
2025	.000	.000	2028	.000	1988
2026	.000	.000	2029	.000	1988
2027	.000	.000	2030	.000	1988
2028	.000	.000	2031	.000	1988
2029	.000	.000	2032	.000	1988
2030	.000	.000	2033	.000	1988
2031	.000	.000	2034	.000	1988
2032	.000	.000	2035	.000	1988
2033	.000	.000	2036	.000	1988
2034	.000	.000	2037	.000	1988
2035	.000	.000	2038	.000	1988
2036	.000	.000	2039	.000	1988
2037	.000	.000	2040	.000	1988
2038	.000	.000	2041	.000	1988
2039	.000	.000	2042	.000	1988
2040	.000	.000	2043	.000	1988
2041	.000	.000	2044	.000	1988
2042	.000	.000	2045	.000	1988
2043	.000	.000	2046	.000	1988
2044	.000	.000	2047	.000	1988
2045	.000	.000	2048	.000	1988
2046	.000	.000	2049	.000	1988
2047	.000	.000	2050	.000	1988
2048	.000	.000	2051	.000	1988
2049	.000	.000	2052	.000	1988
2050	.000	.000	2053	.000	1988
2051	.000	.000	2054	.000	1988
2052	.000	.000	2055	.000	1988
2053	.000	.000	2056	.000	1988
2054	.000	.000	2057	.000	1988
2055	.000	.000	2058	.000	1988
2056	.000	.000	2059	.000	1988
2057	.000	.000	2060	.000	1988
2058	.000	.000	2061	.000	1988
2059	.000	.000	2062	.000	1988
2060	.000	.000	2063	.000	1988
2061	.000	.000	2064	.000	1988
2062	.000	.000	2065	.000	1988
2063	.000	.000	2066	.000	1988
2064	.000	.000	2067	.000	1988
2065	.000	.000	2068	.000	1988
2066	.000	.000	2069	.000	1988
2067	.000	.000	2070	.000	1988
2068	.000	.000	2071	.000	1988
2069	.000	.000	2072	.000	1988
2070	.000	.000	2073	.000	1988
2071	.000	.000	2074	.000	1988
2072	.000	.000	2075	.000	1988
2073	.000	.000	2076	.000	1988
2074	.000	.000	2077	.000	1988
2075	.000	.000	2078	.000	1988
2076	.000	.000	2079	.000	1988
2077	.000	.000	2080	.000	1988
2078	.000	.000	2081	.000	1988
2079	.000	.000	2082	.000	1988
2080	.000	.000	2083	.000	1988
2081	.000	.000	2084	.000	1988
2082	.000	.000	2085	.000	1988
2083	.000	.000	2086	.000	1988
2084	.000	.000	2087	.000	1988
2085	.000	.000	2088	.000	1988
2086	.000	.000	2089	.000	1988
2087	.000	.000	2090	.000	1988
2088	.000	.000	2091	.000	1988
2089	.000	.000	2092	.000	1988
2090	.000	.000	2093	.000	1988
2091	.000	.000	2094	.000	1988
2092	.000	.000	2095	.000	1988
2093	.000	.000	2096	.000	1988
2094	.000	.000	2097	.000	1988
2095	.000	.000	2098	.000	1988
2096	.000	.000	2099	.000	1988
2097	.000	.000	2100	.000	1988
2098	.000	.000	2101	.000	1988
2099	.000	.000	2102	.000	1988
2100	.000	.000	2103	.000	1988
2101	.000	.000	2104	.000	1988
2102	.000	.000	2105	.000	1988
2103	.000	.000	2106	.000	1988
2104	.000	.000	2107	.000	1988
2105	.000	.000	2108	.000	1988
2106	.000	.000	2109	.000	1988
2107	.000	.000	2110	.000	1988
2108	.000	.000	2111	.000	1988
2109	.000	.000	2112	.000	1988
2110	.000	.000	2113	.000	1988
2111	.000	.000	2114	.000	1988
2112	.000	.000	2115	.000	1988
2113	.000	.000	2116	.000	1988
2114	.000	.000	2117	.000	1988
2115	.000	.000	2118	.000	1988
2116	.000	.000	2119	.000	1988
2117	.000	.000	2120	.000	1988
2118	.000	.000	2121	.000	1988
2119	.000	.000	2122	.000	1988
2120	.000	.000	2123	.000	1988
2121	.000	.000	2124	.000	1988
2122	.000	.000	2125	.000	1988
2123	.000	.000	2126	.000	1988
2124	.000	.000	2127	.000	1988

LOCATION.--Lat 44°34'26", long 104°02'54", in NW¼ NW¼ 4 sec.18 T.7 N., R.1 E., Butte County, Hydrologic Unit 10120203, on left bank 800 ft downstream from State line, 5.7 mi upstream from Crow Creek, and 12 mi southwest of Belle Fourche, SD.

DRAINAGE AREA.--471 mi².

PERIOD OF RECORD.--April 1929 to September 1931 and February 1936 to July 1937 (published as "near Beulah, WY"),
June 1954 to current year.

REVISED RECORDS.--WSP 1309: 1931(M), 1936-37(M).

GAGE.--Water-stage recorder. Elevation of gage is 3,410 ft above sea level, from topographic map. Apr. 25, 1929, to Sept. 30, 1931, and Feb. 28, 1936, to July 31, 1937, nonrecording gage at site 2 mi upstream at different datum.

REMARKS.--Records good, including those for estimated daily discharges. Large diversions for irrigation upstream from station. Total flow passing State line may be obtained by adding flow of Murray ditch (see station 06429997).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	28	27	e22	25	29	28	29	62	48	25	18
2	15	28	27	e25	25	30	28	29	58	45	30	20
3	15	28	27	e25	25	27	27	29	53	45	34	20
4	15	28	26	e22	25	27	27	29	53	45	33	19
5	17	28	26	e22	25	e24	27	29	53	46	36	20
6	24	28	26	e22	25	e18	27	31	51	45	34	19
7	23	28	26	e24	24	e20	27	31	50	46	34	19
8	20	28	26	e24	24	e24	27	192	51	44	32	19
9	19	28	26	25	24	27	27	1330	54	42	32	19
10	20	28	26	24	25	28	27	796	76	44	27	19
11	19	28	26	24	e22	28	27	417	81	42	27	20
12	22	28	26	24	e20	28	26	259	70	41	27	19
13	22	28	26	24	e20	28	27	330	63	40	27	18
14	23	27	26	24	e20	27	27	247	63	39	27	20
15	23	27	26	24	e22	28	27	192	58	45	25	20
16	24	27	26	24	e23	29	27	142	56	41	24	19
17	25	27	25	24	25	33	27	111	54	38	24	20
18	27	28	25	24	25	31	28	90	52	37	23	21
19	25	28	25	24	25	36	27	75	50	36	23	22
20	25	28	25	24	25	36	27	68	50	36	23	22
21	25	28	25	24	27	36	28	64	52	30	23	22
22	25	28	25	24	28	34	28	59	58	24	23	22
23	25	28	25	24	24	32	28	57	54	23	22	21
24	26	28	25	24	24	29	28	55	51	24	21	21
25	24	28	25	24	25	28	28	55	51	25	21	21
26	24	28	25	24	25	27	28	54	50	25	24	21
27	25	28	25	24	25	27	27	56	49	24	23	21
28	26	27	25	24	25	28	27	79	49	23	21	22
29	26	27	25	24	---	28	28	109	49	23	18	23
30	26	27	25	24	---	28	28	87	49	23	18	22
31	29	---	25	25	---	28	---	71	---	24	19	---
TOTAL	699	833	794	736	677	883	820	5202	1670	1113	800	609
MEAN	22.5	27.8	25.6	23.7	24.2	28.5	27.3	168	55.7	35.9	25.8	20.3
MAX	29	28	27	25	28	36	28	1330	81	48	36	23
MIN	15	27	25	20	20	18	26	29	49	23	18	18
AC-FT	1390	1650	1570	1460	1340	1750	1630	10320	3310	2210	1590	1210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1995, BY WATER YEAR (WY)*

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1995, BY WATER YEAR (WY)												
MEAN	27.6	31.7	31.6	30.8	31.7	33.1	35.9	53.5	45.6	22.4	21.4	24.4
MAX	45.0	47.9	47.1	46.1	57.8	58.9	60.9	168	128	54.9	58.9	50.4
(WY)	1973	1974	1974	1974	1971	1978	1971	1995	1976	1976	1973	1973
MIN	14.2	20.8	21.5	20.7	21.2	22.1	18.8	7.44	6.29	7.62	6.78	11.8
(WY)	1991	1961	1993	1993	1993	1962	1981	1985	1961	1990	1985	1985

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR			FOR 1995 WATER YEAR			WATER YEARS 1955 - 1995*		
ANNUAL TOTAL	8889.1			14836			--		
ANNUAL MEAN	24.4			40.6			32.5		
HIGHEST ANNUAL MEAN	--			--			56.0		1973
LOWEST ANNUAL MEAN	--			--			17.9		1961
HIGHEST DAILY MEAN	78	May 5		1330	May 9		1330	May 9	1995
LOWEST DAILY MEAN	4.4	Jul 3		15	Oct 1		1.3	May 22	1985a
ANNUAL SEVEN-DAY MINIMUM	5.2	Jul 2		18	Oct 1		1.9	May 21	1985
INSTANTANEOUS PEAK FLOW	--			1640	May 9		2440	Aug 22	1973b
INSTANTANEOUS PEAK STAGE	--			10.62	May 9		12.19	Aug 22	1973
ANNUAL RUNOFF (AC-FT)	17630			29430			23520		
10 PERCENT EXCEEDS	37			54			45		
50 PERCENT EXCEEDS	25			27			30		
90 PERCENT EXCEEDS	13			21			15		

* Period using present site and datum only (1955-95). See GAGE.

a No flow Aug. 13-15, 1929, during partial year.

b From rating curve extended above 1,000 ft³/s on basis of slope-area measurement; gage height 11.95 ft.

b From rating
e Estimated.

LOCATION.--Lat 40°56'15", long 106°20'16", in NE¹/₄ SW¹/₄ SE¹/₄ sec.11, T.11 N., R.80 W., Jackson County, Hydrologic Unit 10180001, on right bank 1,000 ft downstream from bridge on State Highway 125, 0.7 mi upstream from Camp Creek, 4.2 mi northwest of Northgate, and 4.4 mi south of Colorado-Wyoming State line.

PERIOD OF RECORD.--May to November 1904 (published as "near Pinkhampton"), May 1915 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 7,810.39 ft above sea level. See WSP 1730 for history of changes prior to Apr. 8, 1918. Apr. 8, 1918, to Aug. 21, 1961, water-stage recorder at site 0.7 mi downstream at datum 3.36 ft lower. Aug. 22, 1961, to Sept. 18, 1984, at site 650 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Oct. 30, 31, and Nov. 2 to Mar. 25. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 130,000 acres of hay meadows upstream from station. Transbasin diversions upstream from station to Cache la Poudre River basin. National Weather Service satellite telemeter at station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	62	61	52	90	140	225	270	1680	1980	710	161
2	43	57	64	50	91	145	269	357	1540	1720	649	147
3	48	53	64	48	92	150	241	517	1490	1840	601	141
4	52	50	65	52	90	160	181	468	1450	2130	564	136
5	57	52	66	54	89	160	195	365	1480	2160	544	131
6	56	54	64	56	90	160	208	324	1630	1910	533	134
7	54	61	62	58	91	170	229	303	1790	1660	504	146
8	61	60	62	61	90	170	230	284	1930	1590	465	173
9	68	62	59	64	89	180	233	333	2340	1730	430	235
10	73	63	56	69	84	185	202	353	2540	1800	424	231
11	72	64	54	73	80	190	176	344	2560	1950	420	203
12	68	65	56	76	84	190	177	359	2080	2030	440	195
13	67	66	58	79	92	190	183	417	1640	2080	449	172
14	67	61	60	76	100	195	192	452	1600	2310	405	150
15	70	64	61	73	105	200	198	425	1770	2570	379	137
16	66	70	64	72	110	210	179	382	2100	2590	343	122
17	61	67	66	70	110	220	159	436	2480	2180	315	119
18	61	59	69	67	120	230	159	563	3310	1980	279	110
19	62	60	69	66	125	230	153	492	4050	1850	262	114
20	66	62	67	66	130	240	147	418	3850	1870	252	131
21	73	60	64	66	125	250	145	474	3060	1880	255	188
22	68	62	65	67	125	260	139	568	2600	1690	254	250
23	63	59	67	70	125	270	130	575	2440	1440	274	251
24	56	62	68	72	130	270	140	694	2340	1280	289	228
25	58	64	68	75	130	250	144	947	2240	1170	284	199
26	61	64	67	75	130	237	155	933	2240	1070	281	182
27	62	52	66	74	130	218	165	877	1950	1000	250	158
28	65	53	65	74	130	272	171	1090	1830	917	243	141
29	63	55	63	76	---	247	172	1200	1840	851	228	143
30	58	58	62	80	---	206	192	1340	2100	785	196	167
31	61	---	57	85	---	226	---	1660	---	737	173	---
TOTAL	1899	1801	1959	2096	2977	6421	5489	18220	65950	52750	11695	4995
MEAN	61.3	60.0	63.2	67.6	106	207	183	588	2198	1702	377	166
MAX	73	70	69	85	130	272	269	1660	4050	2590	710	251
MIN	39	50	54	48	80	140	130	270	1450	737	173	110
AC-FT	3770	3570	3890	4160	5900	12740	10890	36140	130800	104600	23200	9910

MEAN	160	149	100	81.2	86.3	168	750	1127	1478	644	267	145
MAX	538	366	200	177	199	722	2444	3649	3296	2367	763	502
(WY)	1962	1962	1928	1984	1986	1986	1962	1984	1983	1957	1983	1929
MIN	31.7	54.2	33.9	27.5	35.7	47.8	131	212	89.4	26.7	38.5	23.8
(WY)	1935	1935	1977	1977	1933	1964	1981	1981	1934	1934	1934	1934

WATER YEARS 1904 - 1995

	WATER YEAR		WATER YEAR		WATER YEARS 1904 - 1980	
ANNUAL TOTAL	76053		176252		--	
ANNUAL MEAN	208		483		431	
HIGHEST ANNUAL MEAN	--		--		878	1917
LOWEST ANNUAL MEAN	--		--		117	1977
HIGHEST DAILY MEAN	1080	Apr 25	4050	Jun 19	6450	Jun 10 1923
LOWEST DAILY MEAN	38	Sep 12	39	Oct 1	19	Jul 17 1934
ANNUAL SEVEN-DAY MINIMUM	41	Sep 9	50	Oct 1	20	Jul 15 1934
INSTANTANEOUS PEAK FLOW	--		4250	Jun 19	6720a	Jun 11 1923
INSTANTANEOUS PEAK STAGE	--		6.48	Jun 19	9.65b	Apr 25 1980
ANNUAL RUNOFF (AC-FT')	150900		349600		312300	
10 PERCENT EXCEEDS	631		1810		1210	
50 PERCENT EXCEEDS	94		160		160	
90 PERCENT EXCEEDS	55		60		68	

a Gage height 6.24 ft., site and datum then in use.
b Backwater from ice jam.

LOCATION.--Lat 41°22'13", long 106°31'12", in NW¼ SW¼ NE¼ sec.8, T.16 N., R.81 W., Carbon County, Hydrologic Unit 10180002, Medicine Bow National Forest, on right bank 0.2 mi upstream from bridge on logging road, 0.5 mi downstream from Lincoln Creek, 1.6 mi upstream from South Brush Creek, and 16 mi southeast of Saratoga.

GAGE.--Water-stage recorder. Elevation of gage is 8,020 ft above sea level, from topographic map. Prior to June 17, 1971, at site 0.02 mi downstream at different datum. June 17, 1971, to Aug. 2, 1984, at site 0.2 mi downstream at different datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 8	2200	539	3.59	June 27	2330	446	3.72
June 14	1900	*986	*4.40				

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	11	9.6	10	8.9	7.7	9.1	13	182	224	27	9.3
2	8.3	10	9.6	9.6	8.9	8.4	9.5	15	231	237	24	9.7
3	10	10	9.4	9.6	8.9	8.3	10	16	278	265	22	9.9
4	15	12	9.3	9.4	8.9	7.7	11	15	322	281	22	9.6
5	14	14	9.6	9.1	8.9	7.3	12	16	415	212	21	9.5
6	13	12	9.6	8.9	8.9	7.4	12	18	457	224	20	13
7	15	10	9.6	8.9	8.9	7.4	14	17	456	234	18	11
8	14	10	9.3	8.9	9.2	7.7	16	14	485	216	17	14
9	14	11	9.5	8.9	9.6	7.6	19	20	459	214	16	13
10	15	13	10	8.9	9.1	8.5	17	23	329	207	16	12
11	15	12	9.6	8.9	9.0	10	19	23	323	186	18	18
12	14	10	9.6	9.0	8.7	12	11	25	471	166	17	12
13	13	11	9.6	9.3	8.6	11	14	22	634	176	15	11
14	12	10	9.6	9.3	8.6	11	17	21	744	162	14	10
15	13	9.8	9.6	9.3	8.7	10	15	33	681	128	13	9.9
16	14	12	9.6	9.3	8.9	10	13	47	711	109	13	9.3
17	12	10	9.6	9.1	8.9	10	13	48	601	94	12	9.3
18	13	9.3	9.3	9.3	8.9	11	12	46	473	88	12	11
19	13	9.1	9.1	9.3	8.9	11	12	58	478	103	12	18
20	13	9.0	8.9	9.2	9.1	11	12	65	458	89	11	22
21	13	9.0	9.0	8.6	9.3	9.7	12	73	435	73	12	17
22	13	8.9	9.3	9.3	9.3	9.3	12	132	406	64	12	13
23	12	9.0	9.3	9.3	8.9	9.0	12	164	363	55	13	12
24	13	9.3	9.3	9.3	9.1	9.3	11	108	303	50	17	12
25	12	9.6	9.3	9.3	9.5	9.0	11	98	253	46	17	12
26	14	10	9.3	9.3	9.0	8.8	11	91	262	41	12	11
27	12	11	9.7	9.3	8.4	8.7	11	84	313	37	11	11
28	11	10	9.6	9.2	8.0	8.6	11	77	378	34	11	11
29	10	9.8	9.6	8.9	---	8.6	11	73	301	32	11	18
30	9.3	9.6	9.8	8.9	---	8.7	12	83	236	30	10	24
31	13	---	10	8.9	---	8.9	---	120	---	30	9.9	---
TOTAL	390.3	311.4	294.2	284.5	250.0	283.6	381.6	1658	12438	4107	475.9	382.5
MEAN	12.6	10.4	9.49	9.18	8.93	9.15	12.7	53.5	415	132	15.4	12.7
MAX	15	14	10	10	9.6	12	19	164	744	281	27	24
MIN	7.7	8.9	8.9	8.6	8.0	7.3	9.1	13	182	30	9.9	9.3
AC=FT	774	618	584	564	496	563	757	3290	24670	8150	944	75

MEAN	14.1	11.5	10.0	9.17	9.24	10.6	24.1	162	257	58.5	13.9	12.6
MAX	38.7	21.3	15.1	13.1	11.7	20.1	73.4	262	534	224	29.5	27.2
(WY)	1966	1962	1984	1966	1973	1966	1962	1962	1983	1983	1983	1965
MIN	7.77	8.40	6.67	6.15	6.55	6.80	12.3	53.5	57.4	11.9	7.75	7.22
(WY)	1990	1977	1991	1970	1970	1970	1993	1995	1987	1994	1989	1989

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1961 - 1995	
ANNUAL TOTAL	14001.4		21257.0		--	
ANNUAL MEAN	38.4		58.2		49.3	
HIGHEST ANNUAL MEAN	--		--		82.0	
LOWEST ANNUAL MEAN	--		--		27.3	
HIGHEST DAILY MEAN	404	May 17	744	Jun 14	955	Jun 25
LOWEST DAILY MEAN	5.8	Aug 27	7.3	Mar 5	4.3	Dec 21
ANNUAL SEVEN-DAY MINIMUM	6.4	Aug 21	7.6	Mar 3	5.1	Oct 25
INSTANTANEOUS PEAK FLOW	--		986		1360a	Jun 25
INSTANTANEOUS PEAK STAGE	--		4.40		4.40	Jun 14
ANNUAL RUNOFF (AC-FT)	27770		42160		35740	
10 PERCENT EXCEEDS	90		215		158	
50 PERCENT EXCEEDS	10		12		12	
90 PERCENT EXCEEDS	8.4		8.9		8.1	

a Gage hieght 4.23 ft, site and datum then in use.

PLATTE RIVER BASIN

06622900 SOUTH BRUSH CREEK NEAR SARATOGA, WY

LOCATION.--Lat 41°20'38", long 106°31'33", in NE¹/4 NW¹/4 sec.20, T.16 N., R.81 W., Carbon County, Hydrologic Unit 10180002, Medicine Bow National Forest, on left bank 300 ft upstream from culvert on State Highway 130, 1.6 mi upstream from North Brush Creek, and 17 mi southeast of Saratoga.

DRAINAGE AREA.--22.8 mi².

PERIOD OF RECORD.--May 1960 to September 1974, May 1976 to September 1977, May 1979 to current year (no winter records since 1972).

GAGE.--Water-stage recorder. Elevation of gage is 8,100 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Transbasin diversion 0.3 mi upstream from station for irrigation in North Brush Creek basin.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	11	125	145	3.6	7.7
2	---	---	---	---	---	---	---	11	141	160	3.3	8.0
3	---	---	---	---	---	---	---	11	152	166	3.1	11
4	---	---	---	---	---	---	---	9.9	176	160	3.0	10
5	---	---	---	---	---	---	---	12	205	137	2.9	8.3
6	---	---	---	---	---	---	---	12	225	170	2.9	9.3
7	---	---	---	---	---	---	---	12	222	188	2.8	7.0
8	---	---	---	---	---	---	---	12	242	190	2.8	8.0
9	---	---	---	---	---	---	---	16	218	180	2.8	8.6
10	---	---	---	---	---	---	---	23	168	174	2.8	6.8
11	---	---	---	---	---	---	---	18	156	168	2.9	7.2
12	---	---	---	---	---	---	---	19	190	156	2.9	6.4
13	---	---	---	---	---	---	---	16	257	152	2.8	5.5
14	---	---	---	---	---	---	---	15	302	154	2.8	5.1
15	---	---	---	---	---	---	---	25	299	118	2.8	4.8
16	---	---	---	---	---	---	---	42	299	88	2.8	4.5
17	---	---	---	---	---	---	---	46	293	74	2.7	4.2
18	---	---	---	---	---	---	---	47	265	65	2.9	4.5
19	---	---	---	---	---	---	---	62	253	75	3.2	6.8
20	---	---	---	---	---	---	---	67	275	57	3.2	8.0
21	---	---	---	---	---	---	---	74	287	41	7.7	6.6
22	---	---	---	---	---	---	---	106	290	30	16	5.7
23	---	---	---	---	---	---	---	110	280	19	17	5.1
24	---	---	---	---	---	---	---	80	233	16	16	4.8
25	---	---	---	---	---	---	---	74	166	13	17	4.5
26	---	---	---	---	---	---	---	75	186	9.3	14	4.3
27	---	---	---	---	---	---	---	73	220	7.0	13	4.2
28	---	---	---	---	---	---	---	69	242	5.7	12	5.9
29	---	---	---	---	---	---	---	70	200	4.7	11	14
30	---	---	---	---	---	---	---	83	170	4.2	9.3	15
31	---	---	---	---	---	---	---	101	---	4.0	8.3	---
TOTAL	---	---	---	---	---	---	---	1401.9	6737	2930.9	200.3	211.8
MEAN	---	---	---	---	---	---	---	45.2	225	94.5	6.46	7.06
MAX	---	---	---	---	---	---	---	110	302	190	17	15
MIN	---	---	---	---	---	---	---	9.9	125	4.0	2.7	4.2
AC-FT	---	---	---	---	---	---	---	2780	13360	5810	397	420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1972, BY WATER YEAR (WY)

	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
MEAN	11.7	9.02	7.14	5.83	6.01	6.63	15.0	85.9	172	43.6	10.6	9.16
MAX	33.8	25.9	17.2	9.61	9.46	11.3	54.2	119	295	81.2	20.0	24.8
(WY)	1962	1962	1962	1962	1962	1966	1962	1962	1968	1964	1968	1961
MIN	3.59	5.41	4.04	2.40	3.71	4.61	7.53	53.0	64.6	15.5	2.70	2.74
(WY)	1965	1964	1965	1965	1965	1963	1968	1972	1966	1963	1963	1969

SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1961 - 1972
ANNUAL MEAN	--	31.8
HIGHEST ANNUAL MEAN	--	45.9
LOWEST ANNUAL MEAN	--	18.6
HIGHEST DAILY MEAN	302 Jun 14	501 Jun 10 1965
LOWEST DAILY MEAN	2.7 Aug 17	.80 Aug 15-20, 28,29 1963*
ANNUAL SEVEN-DAY MINIMUM	--	.84 Aug 14 1963
INSTANTANEOUS PEAK FLOW	332 Jun 14	559 Jun 10 1965#
INSTANTANEOUS PEAK STAGE	3.45 Jun 14	4.09 Jun 10 1965#
ANNUAL RUNOFF (AC-FT)	--	23070
10 PERCENT EXCEEDS	--	91
50 PERCENT EXCEEDS	--	8.2
90 PERCENT EXCEEDS	--	4.6

* During period of operation.

For period of record through 1995.

06623800 ENCAMPMENT RIVER ABOVE HOG PARK CREEK, NEAR ENCAMPMENT, WY
(Hydrologic bench-mark station)

LOCATION.--Lat 41°01'25", long 106°49'27", in NE¹/₄ SW¹/₄ sec.10, T.12 N., R.84 W., Carbon County, Hydrologic Unit 10180002, Medicine Bow National Forest, on left bank 0.6 mi upstream from Hog Park Creek and 13 mi south of Encampment.

DRAINAGE AREA.--72.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 8,270 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 13-28, Mar. 15, 20, 23, and Mar. 25 to Apr. 2. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 750 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 6	2030	895	4.05	June 16	2400	*1420	*4.81

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	21	19	15	16	17	17	27	383	822	159	43
2	19	19	19	15	15	18	17	30	389	841	146	43
3	23	18	19	15	14	17	18	32	460	902	135	52
4	27	18	18	14	15	16	19	32	491	816	132	42
5	26	22	18	15	15	18	22	38	647	726	124	41
6	29	21	19	16	16	16	27	40	775	783	116	43
7	28	21	19	16	16	16	31	37	732	852	110	41
8	27	20	17	15	15	17	35	26	697	872	105	67
9	26	20	18	16	16	17	34	33	703	887	100	56
10	27	19	19	16	13	19	31	45	520	939	94	45
11	26	22	19	16	14	22	29	54	526	928	94	52
12	25	21	18	16	15	21	27	62	680	897	91	42
13	23	19	18	16	16	20	30	61	899	821	84	39
14	22	18	18	16	16	22	35	67	1060	792	79	37
15	23	17	18	16	15	23	31	101	1120	647	75	35
16	23	18	18	16	16	22	31	118	1150	554	70	34
17	19	17	18	16	17	22	32	131	1170	511	67	33
18	26	16	18	16	18	22	30	128	977	468	64	38
19	21	16	17	17	18	21	27	150	954	489	62	57
20	25	16	18	17	17	20	26	178	1030	457	61	53
21	24	16	18	15	16	20	24	182	1080	401	61	49
22	22	17	17	16	17	20	25	212	1080	382	62	41
23	22	18	17	16	18	21	23	226	986	331	60	39
24	21	19	17	16	18	19	24	184	902	295	58	38
25	20	20	17	16	18	18	23	187	835	270	68	37
26	22	20	17	16	19	18	22	198	841	261	57	36
27	23	19	17	15	18	18	23	193	913	245	54	35
28	21	18	17	15	17	17	26	174	1030	224	53	37
29	21	20	17	15	---	17	26	195	1010	211	50	67
30	16	20	16	15	---	17	28	254	899	198	47	64
31	18	---	15	16	---	17	---	318	---	178	45	---
TOTAL	711	566	550	486	454	588	793	3713	24939	18000	2583	1336
MEAN	22.9	18.9	17.7	15.7	16.2	19.0	26.4	120	831	581	83.3	44.5
MAX	29	22	19	17	19	23	35	318	1170	939	159	67
MIN	16	16	15	14	13	16	17	26	383	178	45	33
AC-FT	1410	1120	1090	964	901	1170	1570	7360	49470	35700	5120	2650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	29.8	24.0	21.5	19.2	18.2	19.2	40.2	265	595	215	47.2	31.8																			
MAX	60.5	38.7	32.1	28.9	28.1	30.5	76.5	468	914	581	83.3	63.4																			
(WY)	1966	1985	1984	1971	1971	1986	1989	1974	1978	1995	1995	1984																			
MIN	17.5	15.6	11.7	10.9	10.8	10.9	19.3	120	171	46.2	25.2	18.1																			
(WY)	1992	1978	1969	1969	1969	1969	1975	1995	1992	1994	1977	1994																			

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1965 - 1995
ANNUAL TOTAL	28348	54719	--
ANNUAL MEAN	77.7	150	111
HIGHEST ANNUAL MEAN	--	--	159
LOWEST ANNUAL MEAN	--	--	51.2
HIGHEST DAILY MEAN	726	1170	1360
LOWEST DAILY MEAN	14	13	9.5
ANNUAL SEVEN-DAY MINIMUM	15	15	10
INSTANTANEOUS PEAK FLOW	--	1420	1680a
INSTANTANEOUS PEAK STAGE	--	4.81	4.81
ANNUAL RUNOFF (AC-FT)	56230	108500	80140
10 PERCENT EXCEEDS	261	687	374
50 PERCENT EXCEEDS	22	25	27
90 PERCENT EXCEEDS	18	16	16

a About June 13, 1965, from slope-area measurement of peak flow, gage height not determined.

PLATTE RIVER BASIN

06623800 ENCAMPMENT RIVER ABOVE HOG PARK CREEK, NEAR ENCAMPMENT, WY--Continued
(Hydrologic bench-mark station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCI, KF AGAR (COLS. PER 100 ML) (31673)
OCT 05...	1015	26	73	7.7	5.0	--	557	0.30	8.8	95	K5	7
MAR 23...	1130	59	76	7.7	0.0	5.0	630	1.3	9.4	78	<1	K5
JUN 30...	1030	810	17	6.9	6.0	16.5	567	1.3	9.6	104	K4	K1
SEP 01...	0850	43	62	7.7	10.0	13.5	570	0.20	8.3	99	27	37

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT 05...	25	7.5	1.6	2.2	0.2	0.9	42	0	34	32	2.7	0.6
MAR 23...	28	8.3	1.8	2.4	0.2	0.9	35	0	29	31	3.2	0.5
JUN 30...	11	3.2	0.66	1.1	0.1	0.3	13	0	11	13	1.6	0.3
SEP 01...	24	7.3	1.5	2.0	0.2	0.8	34	0	28	29	2.4	0.2

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT 05...	<0.10	8.7	52	45	0.07	3.65	<0.01	<0.05	<0.02	<0.2	<0.01	<0.01
MAR 23...	<0.10	12	58	47	0.08	9.24	<0.01	0.07	<0.02	<0.2	0.01	<0.01
JUN 30...	<0.10	6.9	32	21	0.04	70.0	<0.01	<0.05	<0.02	<0.2	0.01	<0.01
SEP 01...	<0.10	11	45	42	0.06	5.22	<0.01	<0.05	<0.02	<0.2	<0.01	<0.01

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)
OCT 05...	1015	10	14	<3	75	<4	1	<10
MAR 23...	1130	40	16	<3	78	<4	3	<10
JUN 30...	1030	50	8	<3	49	9	1	<10
SEP 01...	0850	10	15	<3	72	<4	2	10

PLATTE RIVER BASIN

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06623800 ENCAMPMENT RIVER ABOVE HOG PARK CREEK, NEAR ENCAMPMENT, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 05...	<1	<1	<1.0	36	<6	4	0.28	76
MAR 23...	<1	<1	<1.0	41	<6	6	0.96	75
JUN 30...	<1	<1	<1.0	18	<6	7	15	67
SEP 01...	<1	<1	<1.0	37	<6	6	0.64	1

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
OCT 05...	1015	26	5.0	--	0.03	0.16
MAR 23...	1130	59	0.0	5.0	--	--
JUN 30...	1030	810	6.0	16.5	0.06	0.13
SEP 01...	0850	43	10.0	13.5	--	--

PLATTE RIVER BASIN

06625000 ENCAMPMENT RIVER AT MOUTH, NEAR ENCAMPMENT, WY

LOCATION.--Lat 41°18'12", long 106°42'53", in NE¹/₄ NW¹/₄ sec.3, T.15 N., R.83 W., Carbon County, Hydrologic Unit 10180002, on left bank 0.5 mi upstream from mouth and 8.0 mi northeast of Encampment.

DRAINAGE AREA.--265 mi².

PERIOD OF RECORD.--April 1940 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1710: Drainage area

GAGE.--Water-stage recorder. Elevation of gage is 6,970 ft above sea level, from topographic map. Prior to June 28, 1961, water-stage recorder at site 660 ft upstream at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges: Nov. 15 to Dec. 5, Dec. 8 to Feb. 6, and Feb. 11-19. Records good except those for estimated daily discharges, which are poor. Five small reservoirs upstream from station for irrigation, total capacity, about 400 acre-ft. Slight regulation by Hog Park Creek Reservoir, capacity, about 2,970 acre-ft. Diversions for irrigation of about 8,800 acres upstream from station. Transbasin diversion upstream from station into Hog Park Creek (tributary to Encampment River) from North Fork Little Snake River for municipal, industrial, and irrigation uses began September 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 7	0230	2,460	5.81	June 17	0430	*3,330	*6.53

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	82	105	69	90	82	85	101	1240	1370	281	64
2	47	82	110	64	82	88	87	109	1290	1330	250	64
3	54	94	100	65	92	85	84	128	1320	1330	233	67
4	59	93	93	68	94	83	86	113	1430	1330	223	65
5	60	90	91	73	90	79	94	118	1610	1270	217	52
6	59	100	90	80	88	85	103	123	2270	1290	198	54
7	70	97	90	84	85	85	116	122	2220	1310	184	54
8	71	97	82	92	81	89	131	149	2010	1350	164	75
9	66	97	70	98	79	82	127	203	2150	1340	154	75
10	65	92	72	105	80	83	116	189	1740	1370	146	63
11	67	93	76	100	72	94	110	186	1480	1400	145	66
12	68	99	70	90	69	98	106	222	1490	1340	146	58
13	66	98	77	91	75	88	107	222	1660	1270	137	50
14	61	86	87	97	90	86	121	214	2560	1270	129	47
15	59	85	81	100	100	89	115	236	2840	1170	129	45
16	71	95	84	95	110	95	115	360	2830	978	136	42
17	71	94	90	84	91	98	125	485	3030	861	129	42
18	66	88	89	81	77	99	122	551	2590	794	121	45
19	68	73	83	81	82	115	119	591	2040	822	106	72
20	69	78	75	81	88	102	114	653	2050	840	100	68
21	67	75	78	81	92	101	105	671	2180	722	102	78
22	79	82	80	75	89	105	104	749	2270	676	101	66
23	93	86	83	74	87	94	103	849	2110	604	108	56
24	90	90	88	76	86	103	103	740	1880	525	106	59
25	86	97	95	80	89	86	102	650	1690	471	109	59
26	83	85	92	83	88	96	105	626	1610	434	86	54
27	87	73	85	90	87	92	99	668	1490	388	79	52
28	87	83	84	85	85	88	103	632	1490	361	77	53
29	85	88	84	77	---	94	95	635	1490	339	77	80
30	81	93	82	81	---	85	104	782	1470	325	71	115
31	69	---	76	85	---	87	---	1020	---	316	67	---
TOTAL	2170	2665	2642	2585	2418	2836	3206	13097	57530	29196	4311	1840
MEAN	70.7	88.8	85.2	83.4	86.4	91.5	107	422	1918	942	139	61.3
MAX	93	100	110	105	110	115	131	1020	3030	1400	281	115
MIN	46	73	70	64	69	79	84	101	1240	316	67	42
AC-FT	4300	5290	5240	5130	4800	5630	6360	25980	114100	57910	8550	3650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

MEAN	75.3	75.2	66.8	59.6	60.0	67.1	147	749	1183	289	65.2	52.9
MAX	165	147	92.8	84.7	115	117	352	1258	2029	953	178	141
(WY)	1966	1966	1985	1994	1962	1989	1962	1952	1971	1995	1982	1965
MIN	29.4	42.6	49.2	34.2	35.7	44.5	71.3	340	193	29.2	21.5	14.2
(WY)	1980	1977	1964	1963	1955	1964	1944	1977	1987	1994	1948	1954

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1941 - 1995
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ANNUAL TOTAL	62311.5		124496		--	
ANNUAL MEAN	171		341		241	
HIGHEST ANNUAL MEAN	--		--		370	1984
LOWEST ANNUAL MEAN	--		--		102	1977
HIGHEST DAILY MEAN	1260	May 17	3030	Jun 17	3640	Jun 4 1952
LOWEST DAILY MEAN	8.2	Sep 12	42	Sep 16, 17	8.0a	Sep 1 1954
ANNUAL SEVEN-DAY MINIMUM	8.9	Sep 12	47	Sep 12	8.9	Aug 28 1954
INSTANTANEOUS PEAK FLOW	--		3330	Jun 17	4510b	Jun 1 1943
INSTANTANEOUS PEAK STAGE	--		6.53	Jun 17	10.33c	Jun 4 1952
ANNUAL RUNOFF (AC-FT)	123600		246900		174500	
10 PERCENT EXCEEDS	465		1330		785	
50 PERCENT EXCEEDS	85		93		72	
90 PERCENT EXCEEDS	17		66		41	

a Minimum daily discharge for period of record, 5.2 ft³/s, Aug. 15, 16, 1940.

b Gage height, 10.25 ft, present datum.

c Present datum.

06627800 JACK CREEK ABOVE COYOTE DRAW, NEAR SARATOGA, WY

LOCATION.--Lat 41°26'21", long 106°58'16", in NW¹/₄ NE¹/₄ NW¹/₄ sec.21, T.17 N., R.85 W., Carbon County, Hydrologic Unit 10180002, on left bank 1.2 mi upstream from Coyote Draw and Blydenburg and Morgan Ditches, 2.0 mi downstream from Gartman Creek, and 8.2 mi west of Saratoga.

DRAINAGE AREA.-- 109 mi².

PERIOD OF RECORD.--April 1990 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 7,050 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of about 2,000 acres upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	14	26	267	112	30	4.9
2	---	---	---	---	---	---	14	28	268	137	26	4.9
3	---	---	---	---	---	---	15	43	277	132	24	5.3
4	---	---	---	---	---	---	15	35	260	141	24	5.3
5	---	---	---	---	---	---	19	31	262	114	23	5.3
6	---	---	---	---	---	---	22	36	322	102	20	5.6
7	---	---	---	---	---	---	25	32	279	102	19	6.0
8	---	---	---	---	---	---	28	41	274	107	16	7.2
9	---	---	---	---	---	---	24	55	379	106	15	8.9
10	---	---	---	---	---	---	21	67	270	109	15	7.6
11	---	---	---	---	---	---	16	78	227	108	17	7.6
12	---	---	---	---	---	---	17	106	228	104	17	8.0
13	---	---	---	---	---	---	17	96	253	101	15	7.6
14	---	---	---	---	---	---	20	72	274	109	12	7.2
15	---	---	---	---	---	---	20	74	289	100	12	6.8
16	---	---	---	---	---	---	21	108	293	84	11	5.6
17	---	---	---	---	---	---	23	141	288	77	10	5.6
18	---	---	---	---	---	---	21	131	304	74	9.1	6.8
19	---	---	---	---	---	---	22	124	230	77	8.5	14
20	---	---	---	---	---	---	19	137	199	88	8.5	13
21	---	---	---	---	---	---	17	140	190	75	10	11
22	---	---	---	---	---	---	16	206	179	69	9.8	9.8
23	---	---	---	---	---	---	16	241	165	59	11	8.9
24	---	---	---	---	---	---	17	179	148	53	12	9.4
25	---	---	---	---	---	---	17	143	133	49	13	9.4
26	---	---	---	---	---	---	20	160	123	42	11	9.4
27	---	---	---	---	---	---	18	213	124	39	8.9	9.4
28	---	---	---	---	---	---	19	202	143	36	8.3	8.9
29	---	---	---	---	---	---	21	217	140	33	7.6	11
30	---	---	---	---	---	---	27	268	127	32	6.0	15
31	---	---	---	---	---	---	---	232	---	33	5.3	---
TOTAL	---	---	---	---	---	---	581	3662	6915	2604	435.0	245.4
MEAN	---	---	---	---	---	---	19.4	118	230	84.0	14.0	8.18
MAX	---	---	---	---	---	---	28	268	379	141	30	15
MIN	---	---	---	---	---	---	14	26	123	32	5.3	4.9
AC-FT	---	---	---	---	---	---	1150	7260	13720	5170	863	487

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	25.3	89.6	97.6	28.0	6.41	4.86
MAX	---	---	---	---	---	---	43.2	149	230	84.0	14.0	8.28
(WY)	---	---	---	---	---	---	1994	1993	1995	1995	1995	1993
MIN	---	---	---	---	---	---	15.6	39.7	32.9	8.07	2.53	2.76
(WY)	---	---	---	---	---	---	1991	1990	1992	1994	1994	1990

SUMMARY STATISTICS

FOR 1995 WATER YEAR*

WATER YEARS 1990 - 1995*

HIGHEST DAILY MEAN	379	Jun 9	379	Jun 9 1995
LOWEST DAILY MEAN	4.9	Sep 1,2	.40	Aug 27 1994
ANNUAL SEVEN-DAY MINIMUM	--	--	.87	Aug 24 1994
INSTANTANEOUS PEAK FLOW	442	Jun 9	461	Jun 9 1993
INSTANTANEOUS PEAK STAGE	7.22	Jun 9	7.22	Jun 9 1995
10 PERCENT EXCEEDS	--	--	117	--
50 PERCENT EXCEEDS	--	--	18	--
90 PERCENT EXCEEDS	--	--	2.8	--

* During period of operation.

06630000 NORTH PLATTE RIVER ABOVE SEMINOLE RESERVOIR, NEAR SINCLAIR, WY

LOCATION.--Lat 41°52'20", long 107°03'25", in SW¹/₄ SW¹/₄ sec.13, T.22 N., R.86 W., Carbon County, Hydrologic Unit 10180002, on left bank 6.5 mi northeast of Sinclair and 14 mi upstream from high-water line of Seminole Reservoir at elevation 6,357 ft.

DRAINAGE AREA.--4,175 mi², of which 114 mi² is probably non-contributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1939 to current year. Prior to October 1943, published as "near Parco."

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

GAGE.--Water-stage recorder. Sharp-crested weir since Mar. 25, 1993. Datum of gage is 6,400.75 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 14 to Mar. 9. Records excellent except those for estimated daily discharges, which are poor. Diversions for irrigation of about 215,000 acres upstream from station. Transbasin diversions upstream from station.

COOPERATION.--Eight discharge measurements provided by the Bureau of Reclamation and eight discharge measurements provided by the Wyoming State Engineer's office.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	276	350	250	400	375	437	465	5370	6370	1520	384
2	172	272	333	230	400	370	444	525	5710	5890	1400	366
3	205	327	345	212	380	400	464	697	5910	5890	1270	352
4	231	339	345	237	375	422	460	915	6320	6130	1180	344
5	228	321	330	270	370	405	474	933	6710	6390	1130	340
6	226	308	302	300	370	390	503	834	7220	5860	1080	333
7	230	319	285	325	360	385	529	755	7940	5410	1010	355
8	249	355	268	345	340	395	559	786	8150	5180	946	367
9	272	361	250	340	325	403	609	944	8660	4980	875	404
10	266	366	260	335	295	435	603	1170	9720	5060	808	450
11	263	355	280	330	270	451	579	1350	8690	5200	758	483
12	267	346	300	320	257	541	508	1370	7800	5160	747	487
13	272	355	320	320	270	644	483	1420	7390	5040	735	444
14	266	358	305	340	290	587	458	1430	7730	5310	738	408
15	267	340	290	348	300	594	508	1280	8540	5740	715	367
16	268	360	310	343	333	612	549	1310	9440	5420	689	335
17	289	300	330	330	352	655	555	1530	9780	4870	642	319
18	307	270	330	312	360	679	574	1770	10500	4230	588	320
19	296	220	340	330	375	703	552	1870	11200	3960	549	371
20	291	248	310	340	392	810	538	1980	10300	4270	506	435
21	290	275	300	345	415	749	499	2030	10100	4110	497	426
22	283	270	300	330	400	767	456	2180	9390	3790	524	456
23	280	290	300	330	400	817	437	2770	8790	3460	531	480
24	302	310	318	350	418	750	419	3120	8150	3050	510	522
25	298	325	328	362	413	752	410	3010	7440	2700	542	521
26	296	313	320	395	418	658	414	3000	6850	2430	592	502
27	281	285	307	395	404	622	426	3260	6550	2170	550	464
28	284	240	295	380	390	485	437	3660	6630	1950	513	446
29	307	290	310	355	---	523	439	3820	7050	1780	477	437
30	301	323	310	365	---	496	450	4050	7080	1650	450	452
31	295	---	272	385	---	456	---	4660	---	1590	414	---
TOTAL	8251	9317	9543	10149	10072	17331	14773	58894	241110	135040	23486	12370
MEAN	266	311	308	327	360	559	492	1900	8037	4356	758	412
MAX	307	366	350	395	418	817	609	4660	11200	6390	1520	522
MIN	169	220	250	212	257	370	410	465	5370	1590	414	319
AC-FT	16370	18480	18930	20130	19980	34380	29300	116800	478200	267900	46580	24540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

MEAN	401	413	341	307	336	524	1411	3114	4389	1435	496	299
MAX	1036	745	499	449	643	1190	4390	8568	9999	5256	1484	821
(WY)	1966	1966	1983	1980	1962	1986	1962	1984	1983	1983	1983	1965
MIN	157	240	226	181	193	205	492	1149	830	204	135	93.3
(WY)	1957	1953	1953	1963	1964	1964	1995	1990	1954	1939	1940	1944

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1939 - 1995
ANNUAL TOTAL	269898	550336	--
ANNUAL MEAN	739	1508	1125
HIGHEST ANNUAL MEAN	--	--	2169
LOWEST ANNUAL MEAN	--	--	467
HIGHEST DAILY MEAN	4170	May 14	11200
LOWEST DAILY MEAN	93	Sep 12	169
ANNUAL SEVEN-DAY MINIMUM	98	Sep 10	209
INSTANTANEOUS PEAK FLOW	--	--	11700
INSTANTANEOUS PEAK STAGE	--	--	9.51
INSTANTANEOUS LOW FLOW	--	--	169
ANNUAL RUNOFF (AC-FT)	535300	1092000	815100
10 PERCENT EXCEEDS	2140	5540	3150
50 PERCENT EXCEEDS	361	435	430
90 PERCENT EXCEEDS	168	278	226

PLATTE RIVER BASIN

06630000 NORTH PLATTE RIVER ABOVE SEMINOE RESERVOIR, NEAR SINCLAIR, WY--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: March 1978 to October 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
JUL										
20...	1300	4200	243	7.9	17.0	26.0	608	7.0	91	36
AUG										
31...	1710	420	378	8.7	20.0	22.0	605	8.2	114	--
SEP										
29...	0925	425	429	8.1	11.5	12.5	600	7.9	92	--

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)
JUL						
20...	<0.01	<0.05	0.02	0.02	158	186
AUG						
31...	<0.01	<0.05	<0.02	<0.01	220	242
SEP						
29...	<0.01	<0.05	<0.02	<0.01	260	280

06632050 CARLSON CREEK DITCH NEAR ARLINGTON, WY

LOCATION.--Lat 41°29'45", long 106°16'42", unsurveyed, T.18 N., R.79 W., Carbon County, Hydrologic Unit 10180004, Medicine Bow National Forest, on left bank 250 ft downstream from diversion on Carlson Creek (diversion 3.0 mi upstream from mouth of Carlson Creek) and 7.8 mi south of Arlington.

PERIOD OF RECORD.--April 1992 to September 1995, discontinued (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 9,500 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Apr. 1 to June 18. Records good except those for estimated daily discharges, which are poor. Results of discharge measurements, in cubic feet per second, for Carlson Creek upstream from the diversion are given below:

Oct. 6 . . . 0.68

Apr. 11 . . . 0.61

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.00	.00	.00	.06	1.1	.18
2	---	---	---	---	---	---	.00	.00	.00	.04	1.0	.19
3	---	---	---	---	---	---	.00	.00	.00	.03	1.1	.19
4	---	---	---	---	---	---	.00	.00	.00	.04	1.1	.19
5	---	---	---	---	---	---	.00	.00	.01	.03	1.0	.22
6	---	---	---	---	---	---	.00	.00	.02	1.4	.96	.23
7	---	---	---	---	---	---	.00	.00	.02	2.8	.89	.23
8	---	---	---	---	---	---	.00	.00	.02	2.6	.84	.25
9	---	---	---	---	---	---	.00	.00	.03	2.4	.81	.22
10	---	---	---	---	---	---	.00	.00	.04	3.4	.85	.22
11	---	---	---	---	---	---	.00	.00	.05	4.1	.84	.25
12	---	---	---	---	---	---	.00	.00	.06	3.7	.77	.19
13	---	---	---	---	---	---	.00	.00	.07	3.5	.71	.17
14	---	---	---	---	---	---	.00	.00	.08	5.9	.27	.18
15	---	---	---	---	---	---	.00	.00	.10	8.7	.11	.18
16	---	---	---	---	---	---	.00	.00	.12	5.7	.14	.18
17	---	---	---	---	---	---	.00	.00	.14	4.6	.16	.18
18	---	---	---	---	---	---	.00	.00	.16	7.1	.18	.18
19	---	---	---	---	---	---	.00	.00	.17	11	.18	.26
20	---	---	---	---	---	---	.00	.00	.19	7.4	.19	.25
21	---	---	---	---	---	---	.00	.00	.15	4.7	.20	.26
22	---	---	---	---	---	---	.00	.00	.09	3.6	.20	.23
23	---	---	---	---	---	---	.00	.00	.10	3.0	.19	.21
24	---	---	---	---	---	---	.00	.00	.07	2.5	.19	.22
25	---	---	---	---	---	---	.00	.00	.07	2.2	.19	.23
26	---	---	---	---	---	---	.00	.00	.08	1.9	.19	.18
27	---	---	---	---	---	---	.00	.00	.10	1.8	.19	.18
28	---	---	---	---	---	---	.00	.00	.11	1.5	.19	.16
29	---	---	---	---	---	---	.00	.00	.06	1.4	.19	.19
30	---	---	---	---	---	---	.00	.00	.07	1.3	.19	.26
31	---	---	---	---	---	---	---	.00	---	1.2	.18	---
TOTAL	---	---	---	---	---	---	0.00	0.00	2.18	99.60	15.30	6.26
MEAN	---	---	---	---	---	---	.000	.000	.073	3.21	.49	.21
MAX	---	---	---	---	---	---	.00	.00	.19	11	1.1	.26
MIN	---	---	---	---	---	---	.00	.00	.00	.03	.11	.16
AC-FT	---	---	---	---	---	---	.00	.00	4.3	198	30	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

	1992	1993	1994	1995
MEAN	.004	.80	.97	1.44
MAX	.016	3.11	2.19	3.21
(WY)	1992	1992	1993	1993
MIN	.000	.000	.007	.005
(WY)	1993	1995	1992	1992

SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1992 - 1995*
HIGHEST DAILY MEAN	11 Jul 19	20 May 7 1992
LOWEST DAILY MEAN	.00 Many days	.00 Many days
ANNUAL SEVEN-DAY MINIMUM	.00 Many days	.00 Many days
INSTANTANEOUS PEAK FLOW	17a Jul 19	23b May 6 1992
INSTANTANEOUS PEAK STAGE	3.14c Jun 2	3.76c Apr 29 1992
10 PERCENT EXCEEDS	--	1.3
50 PERCENT EXCEEDS	--	.04
90 PERCENT EXCEEDS	--	.00

* During period of operation.

a Gage height, 2.14 ft.

b Gage height, 2.37 ft.

c Backwater from snow.

PLATTE RIVER BASIN

06632055 CARLSON CREEK DITCH ABOVE WAGONHOUND CREEK, NEAR ARLINGTON, WY

LOCATION.--Lat 41°30'51", long 106°17'19", unsurveyed, T.18 N., R.79 W., Carbon County, Hydrologic Unit 10180004, Medicine Bow National Forest, on right bank 30 ft downstream from U S Forest Service Road 111, and 6.9 mi southwest of Arlington.

PERIOD OF RECORD.--April 1994 to September 1995, discontinued (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 9,470 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Apr. 1 to June 9. Records good except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.00	.00	.01	.24	1.2	.16
2	---	---	---	---	---	---	.00	.00	.01	.30	1.1	.17
3	---	---	---	---	---	---	.00	.00	.01	.41	1.1	.20
4	---	---	---	---	---	---	.00	.01	.02	.75	1.1	.21
5	---	---	---	---	---	---	.00	.01	.02	.26	.91	.21
6	---	---	---	---	---	---	.00	.01	.04	.12	.86	.24
7	---	---	---	---	---	---	.00	.01	.04	1.9	.80	.23
8	---	---	---	---	---	---	.00	.01	.06	3.4	.75	.26
9	---	---	---	---	---	---	.00	.01	.08	3.2	.71	.24
10	---	---	---	---	---	---	.00	.01	.10	4.1	.69	.29
11	---	---	---	---	---	---	.00	.01	.11	4.9	.75	.35
12	---	---	---	---	---	---	.00	.01	.16	4.4	.68	.24
13	---	---	---	---	---	---	.00	.01	.31	4.3	.67	.22
14	---	---	---	---	---	---	.00	.01	1.7	6.3	.47	.22
15	---	---	---	---	---	---	.00	.01	6.5	7.8	.15	.22
16	---	---	---	---	---	---	.00	.01	3.5	6.4	.20	.22
17	---	---	---	---	---	---	.00	.01	2.4	5.2	.20	.22
18	---	---	---	---	---	---	.00	.01	2.5	7.3	.21	.26
19	---	---	---	---	---	---	.00	.01	2.7	11	.20	.37
20	---	---	---	---	---	---	.00	.01	2.5	7.7	.19	.41
21	---	---	---	---	---	---	.00	.01	2.4	5.0	.21	.30
22	---	---	---	---	---	---	.00	.01	1.2	3.9	.23	.24
23	---	---	---	---	---	---	.00	.01	1.0	3.2	.19	.24
24	---	---	---	---	---	---	.00	.01	.94	2.6	.17	.27
25	---	---	---	---	---	---	.00	.01	.81	2.3	.16	.25
26	---	---	---	---	---	---	.00	.01	.74	2.0	.15	.23
27	---	---	---	---	---	---	.00	.01	.84	1.7	.15	.23
28	---	---	---	---	---	---	.00	.01	.85	1.6	.15	.22
29	---	---	---	---	---	---	.00	.01	.56	1.5	.15	.28
30	---	---	---	---	---	---	.00	.01	.32	1.4	.15	.37
31	---	---	---	---	---	---	---	.01	---	1.4	.16	---
TOTAL	---	---	---	---	---	---	0.00	0.28	32.43	106.58	14.71	7.57
MEAN	---	---	---	---	---	---	.000	.009	1.08	3.44	.47	.25
MAX	---	---	---	---	---	---	.00	.01	6.5	11	1.2	.41
MIN	---	---	---	---	---	---	.00	.00	.01	.12	.15	.16
AC-FT	---	---	---	---	---	---	.00	.6	64	211	29	15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	.000	2.14	1.59	1.99	.32	.13
MAX	---	---	---	---	---	.000	4.27	2.10	3.44	.47	.25
(WY)	---	---	---	---	---	1994	1994	1994	1995	1995	1995
MIN	---	---	---	---	---	.000	.009	1.08	.54	.16	.010
(WY)	---	---	---	---	---	1994	1995	1995	1994	1994	1994

SUMMARY STATISTICS

HIGHEST DAILY MEAN
 LOWEST DAILY MEAN
 ANNUAL SEVEN-DAY MINIMUM
 INSTANTANEOUS PEAK FLOW
 INSTANTANEOUS PEAK STAGE
 10 PERCENT EXCEEDS
 50 PERCENT EXCEEDS
 90 PERCENT EXCEEDS

FOR 1995 WATER YEAR*

11 Jul 19
 .00 Many days
 .00 Many days
 20 Jun 15
 2.34 Jun 15
 --
 --
 --

WATER YEARS 1994 - 1995*

12 May 19 1994
 .00 Many days
 .00 Many days
 20 Jun 15 1995
 2.34 Jun 15 1995
 3.8
 .22
 .00

* During period of operation.

06632400 ROCK CREEK ABOVE KING CANYON CANAL, NEAR ARLINGTON, WY

LOCATION.--Lat 41°35'07", long 106°13'20", in SE¹/₄ SW¹/₄ sec. 25, T.19 N., R.79 W., Carbon County, Hydrologic Unit 10180004, on left bank 200 ft upstream from point of diversion to King Canyon Canal, 0.4 mi downstream from Overland Creek, 1.0 mi southwest of Arlington, and 6.9 mi southwest of McFadden.

DRAINAGE AREA.--62.9 mi².

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR WY-86: 1985(m). WDR WY-87: 1985.

GAGE.--Water-stage recorder. Elevation of gage is 7,790 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 14, 15, 17-24, 27-30, Dec. 8-17, 20, 21, Jan. 1-7, Jan. 22-27, Feb. 9-13, 22-26, Feb. 28 to Mar. 2, Mar. 5-8, 13, May 16-18, and July 7-14. Records good except those for April to June, which are fair and those for estimated daily discharges, which are poor. Minor regulation by Sand Lake, capacity, 1,100 acre-ft, on Deep Creek, 12 mi upstream. No diversion upstream from station.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 6	1930	738	3.89	June 28	1030	1290	4.60
June 16	0900	*1630	*5.18				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	11	9.2	8.0	7.9	7.2	13	13	199	533	68	25
2	9.9	11	9.0	7.3	7.4	7.4	8.5	16	266	575	62	25
3	11	10	8.7	7.1	7.5	7.9	9.7	16	295	560	57	25
4	13	8.8	8.7	7.4	7.7	7.4	8.4	14	312	539	46	25
5	13	9.6	8.7	7.7	7.7	8.7	8.8	15	481	494	45	25
6	13	12	8.7	8.3	7.7	8.3	9.4	18	653	524	43	31
7	14	11	9.0	9.3	7.7	7.9	10	20	638	455	39	29
8	15	10	8.6	11	7.5	7.7	11	20	665	435	37	29
9	17	9.1	8.4	8.7	7.1	7.1	13	13	526	420	41	28
10	17	10	8.1	8.0	6.7	7.0	10	18	414	400	39	26
11	16	9.6	8.0	8.0	7.0	8.0	15	26	393	375	38	32
12	15	11	7.9	7.7	7.8	8.5	11	29	599	360	37	24
13	15	9.6	7.7	7.7	8.5	8.4	11	29	937	350	36	24
14	14	8.1	7.8	7.7	9.2	8.3	12	28	1140	335	34	23
15	14	8.0	8.0	7.7	9.4	8.4	11	48	1270	327	33	22
16	14	8.8	8.6	7.7	8.7	8.7	13	53	1280	271	31	21
17	12	8.7	9.1	7.7	8.7	8.9	10	55	1160	241	31	20
18	14	9.2	9.6	7.6	8.5	9.1	10	65	981	239	31	22
19	14	10	9.0	7.7	8.1	9.1	10	78	907	251	29	29
20	13	9.3	8.6	8.0	7.9	13	9.9	88	935	206	28	37
21	13	8.9	8.5	7.9	8.4	9.6	9.3	92	938	175	29	35
22	13	8.5	8.7	7.0	8.6	9.2	12	134	920	159	41	29
23	12	8.5	8.7	6.7	9.3	13	9.1	151	972	131	40	29
24	12	8.5	8.7	6.6	13	9.4	10	120	917	121	27	29
25	9.2	9.1	8.7	7.0	11	17	10	106	705	113	25	28
26	11	9.1	8.7	7.3	9.7	10	11	103	681	104	25	27
27	14	8.9	8.7	7.5	8.2	19	12	108	797	94	26	26
28	12	8.5	8.4	8.2	7.8	9.2	12	104	945	86	25	23
29	9.9	8.4	8.4	7.7	---	11	13	111	704	81	24	24
30	6.1	8.7	8.4	7.7	---	15	14	120	576	76	23	30
31	6.7	---	8.5	7.6	---	19	---	148	---	75	25	---
TOTAL	392.3	281.9	265.8	241.5	234.7	308.4	327.1	1959	22206	9105	1115	802
MEAN	12.7	9.40	8.57	7.79	8.38	9.95	10.9	63.2	740	294	36.0	26.7
MAX	17	12	9.6	11	13	19	15	151	1280	575	68	37
MIN	6.1	8.0	7.7	6.6	6.7	7.0	8.4	13	199	75	23	20
AC-FT	778	559	527	479	466	612	649	3890	44050	18060	2210	1590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	16.6	13.4	11.6	10.7	10.5	10.4	22.7	219	510	136	31.8	22.0																		
MAX	40.0	22.8	18.8	15.3	17.0	15.6	45.8	409	1024	420	66.9	40.1																		
(WY)	1983	1973	1973	1966	1974	1979	1989	1974	1971	1982	1982	1971																		
MIN	9.57	8.85	6.81	7.74	7.02	7.08	10.9	59.3	158	30.9	14.2	10.3																		
(WY)	1990	1977	1968	1969	1969	1969	1995	1968	1987	1977	1994	1994																		

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1966 - 1995
ANNUAL TOTAL	23039.9	37238.7	--
ANNUAL MEAN	63.1	102	84.5a
HIGHEST ANNUAL MEAN	--	--	142
LOWEST ANNUAL MEAN	--	--	48.9
HIGHEST DAILY MEAN	753	1280	1690
LOWEST DAILY MEAN	6.1	6.1	4.8
ANNUAL SEVEN-DAY MINIMUM	8.0	7.1	6.0
INSTANTANEOUS PEAK FLOW	--	1630	2590b
INSTANTANEOUS PEAK STAGE	--	5.18	5.92
ANNUAL RUNOFF (AC-FT)	45700	73860	61230
10 PERCENT EXCEEDS	181	382	271
50 PERCENT EXCEEDS	12	13	15
90 PERCENT EXCEEDS	8.7	7.7	8.8

a Annual mean, water years 1955-1995, 81.2 ft³/s, includes records for station 06632500 Rock Creek at Arlington for water years 1955-65, adjusted for diversion by King Canyon Canal.

b Gage height, 5.83 ft.

06634620 LITTLE MEDICINE BOW RIVER AT BOLES SPRING, NEAR MEDICINE BOW, WY

LOCATION.--Lat 41°57'40", long 106°12'31", in NW¼ SW¼ SW¼ sec.17, T.23 N., R.78 W., Carbon County, Hydrologic Unit 10180005, on right bank 50 ft downstream from Boles Spring, 3.9 mi downstream from State Highway 487, 4.3 mi north of Medicine Bow, and 8.7 mi downstream from Muddy Creek.

DRAINAGE AREA.--969 mi².

PERIOD OF RECORD.--October 1973 to current year. Records for October 1973 to September 1984 at site 5.5 mi upstream published as "near Medicine Bow" (Sta 06634600) do not include flow of Boles Spring. Discharge records considered equivalent except for low flow.

GAGE.--Water-stage recorder. Elevation of gage is 6,570 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Mar. 12-21. Records fair except those for estimated daily discharges, which are poor.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 21	0900	842	5.27	June 4	0630	*1170	*6.04

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.86	4.5	1.1	1.1	2.6	80	41	48	514	132	20	4.9
2	.88	4.1	1.3	.94	4.7	44	34	46	527	108	16	4.5
3	2.0	1.5	1.4	.79	5.2	47	29	59	595	92	14	4.3
4	8.2	1.4	1.5	.65	6.4	50	29	55	1020	86	17	4.3
5	8.2	1.4	1.6	.59	9.2	41	27	56	838	78	16	4.4
6	8.2	2.5	1.6	.61	12	35	27	62	777	69	15	4.1
7	7.4	3.9	1.5	.98	11	26	32	66	683	60	13	4.2
8	7.0	14	1.3	1.2	11	28	39	95	624	54	12	4.7
9	6.8	14	1.4	1.3	12	34	46	102	705	52	10	5.4
10	5.9	13	1.2	1.4	14	32	43	159	593	46	9.2	6.0
11	5.1	12	1.1	1.6	12	47	32	247	546	39	9.2	6.5
12	4.8	13	1.0	1.4	12	80	36	359	452	33	8.7	6.0
13	4.2	9.4	1.1	1.6	11	150	34	493	429	33	8.5	6.0
14	3.9	3.7	1.1	1.8	10	290	32	489	419	42	7.4	6.1
15	4.7	3.5	1.1	1.9	9.7	150	31	395	385	48	7.3	5.6
16	6.8	3.7	1.1	1.8	9.1	100	36	396	349	34	7.0	4.6
17	10	3.2	1.1	1.6	10	110	43	623	325	39	6.4	4.2
18	10	2.9	1.3	1.5	12	140	38	675	329	42	5.5	5.6
19	8.1	2.2	1.5	1.6	13	100	38	646	367	36	5.0	7.3
20	7.3	2.0	1.4	1.5	18	85	39	725	303	35	4.9	7.2
21	6.9	1.6	1.4	1.1	26	70	37	771	252	31	5.0	9.1
22	6.0	1.3	1.4	.91	32	65	39	668	226	32	5.7	9.3
23	5.5	1.0	1.5	.70	33	61	38	662	188	33	5.4	9.2
24	5.1	1.1	1.5	.64	32	74	37	540	159	30	5.5	8.8
25	5.2	1.2	1.6	.97	38	48	35	515	134	27	11	8.6
26	5.3	1.4	1.7	1.2	76	46	37	514	118	24	9.1	8.6
27	6.2	1.2	1.9	2.1	192	24	36	524	104	22	8.2	8.8
28	5.5	1.0	2.0	2.6	150	24	41	503	117	20	8.1	8.8
29	4.6	.89	2.2	2.4	---	24	45	508	284	18	7.6	9.6
30	3.3	.90	1.5	2.1	---	28	52	529	197	16	6.4	12
31	3.1	---	1.2	1.5	---	39	---	510	---	15	5.3	---
TOTAL	177.04	127.49	43.6	42.08	783.9	2172	1103	12040	12559	1426	289.4	198.7
MEAN	5.71	4.25	1.41	1.36	28.0	70.1	36.8	388	419	46.0	9.34	6.62
MAX	10	14	2.2	2.6	192	290	52	771	1020	132	20	12
MIN	.86	.89	1.0	.59	2.6	24	27	46	104	15	4.9	4.1
AC-FT	351	253	86	83	1550	4310	2190	23880	24910	2830	574	394

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	9.12	8.39	3.81	1.94	14.5	50.3	114	151	88.2	19.3	7.86	8.01
MAX	18.0	17.3	11.5	4.92	110	114	246	388	419	46.0	22.1	19.5
(WY)	1985	1985	1987	1985	1986	1986	1988	1995	1995	1995	1990	1985
MIN	3.80	4.25	1.41	1.06	1.05	15.0	28.5	21.2	5.96	5.17	1.40	.89
(WY)	1993	1995	1995	1992	1990	1993	1992	1992	1994	1994	1994	1994

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1985 - 1995
ANNUAL TOTAL	7636.85	30962.21	---
ANNUAL MEAN	20.9	84.8	39.7a
HIGHEST ANNUAL MEAN	---	---	84.8
LOWEST ANNUAL MEAN	---	---	12.7
HIGHEST DAILY MEAN	233	1020	1020
LOWEST DAILY MEAN	.75	.59	.51b
ANNUAL SEVEN-DAY MINIMUM	.83	.81	.64
INSTANTANEOUS PEAK FLOW	---	1170	9500c
INSTANTANEOUS PEAK STAGE	---	6.04	14.10d
ANNUAL RUNOFF (AC-FT)	15150	61410	28750
10 PERCENT EXCEEDS	69	353	117
50 PERCENT EXCEEDS	3.2	12	8.0
90 PERCENT EXCEEDS	1.0	1.3	1.4

a Average discharge, water years 1974-95, 52.4 ft³/s, unadjusted for flow from Boles Spring.

b No flow at times, water years 1974-84, site then in use.

c From slope-area measurement of peak flow.

d From floodmark in gage well, site and datum then in use.

06635000 MEDICINE BOW RIVER ABOVE SEMINOLE RESERVOIR, NEAR HANNA, WY

LOCATION.--Lat 42°00'35", long 106°30'45", in SE¹/₄ NW¹/₄ sec.34, T.24 N., R.81 W., Carbon County, Hydrologic Unit 10180004, on left bank 25 ft upstream from county highway bridge, 2.0 mi upstream from Troublesome Creek, 9.0 mi upstream from high-water line of Seminole Reservoir at elevation 6,357 ft, and 10 mi north of Hanna.

DRAINAGE AREA.--2,338 mi², of which 396 mi² is probably non-contributing.

PERIOD OF RECORD.--July 1939 to current year.

REVISED RECORDS.--WSP 956: 1941(M). WSP 1440: 1940(M), 1941. WSP 1710: Drainage area. WDR WY-83-1: 1943.

GAGE.--Water-stage recorder. Concrete control since Nov. 20, 1990. Datum of gage is 6,415.40 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 19, 20, Dec. 9-21, Dec. 25 to Jan. 3, and Jan. 12 to Mar. 10. Records good except those for estimated daily discharges, which are poor. Many small reservoirs upstream from station, total capacity, about 6,000 acre-ft, for irrigation. Diversions for irrigation of about 43,000 acres upstream from station.

COOPERATION.--Nine discharge measurements provided by the Bureau of Reclamation and nine discharge measurements provided by the Wyoming State Engineer's office.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	23	19	24	52	80	88	105	1170	1630	171	23
2	13	25	19	21	58	73	90	124	1100	1510	167	22
3	22	24	21	25	63	92	84	165	1130	1390	155	20
4	27	16	25	28	63	85	77	145	1530	1340	143	20
5	23	19	29	32	63	80	71	185	1740	1170	124	20
6	23	28	31	36	61	77	68	197	1780	1070	114	20
7	23	43	31	32	60	80	58	181	1680	912	100	20
8	21	43	27	33	57	89	56	210	1660	885	86	21
9	21	46	20	37	54	100	67	224	1770	830	72	24
10	20	39	21	37	50	130	74	265	1830	774	61	41
11	20	39	22	37	45	132	73	423	1800	712	54	29
12	20	41	24	32	40	123	64	603	1730	710	47	36
13	19	35	26	35	41	190	64	742	1560	658	39	31
14	19	23	26	37	40	284	53	785	1600	708	35	30
15	24	18	23	35	45	228	49	653	1520	752	34	32
16	25	25	25	32	54	202	56	503	1500	791	33	32
17	26	22	26	28	62	238	61	549	1570	713	31	30
18	28	15	27	29	68	258	67	689	1740	642	29	35
19	28	13	27	29	73	198	63	784	1910	553	26	41
20	26	15	25	28	80	165	64	826	2130	520	25	41
21	24	17	23	26	84	161	59	913	2260	538	27	47
22	22	19	22	23	88	153	56	947	2170	519	28	45
23	21	25	23	28	94	137	59	917	2090	488	30	56
24	21	23	26	35	100	140	56	1040	1940	429	29	64
25	21	25	28	45	100	137	56	1140	1780	357	27	65
26	22	23	31	42	100	119	59	1060	1660	307	29	63
27	23	23	33	39	97	104	57	942	1500	264	30	60
28	24	23	35	37	87	64	68	955	1380	239	39	59
29	24	21	34	36	---	63	76	1130	1410	214	38	60
30	22	25	32	35	---	100	100	1230	1590	190	29	61
31	19	---	28	43	---	97	---	1220	---	183	26	---
TOTAL	683	776	809	1016	1879	4179	1993	19852	50230	21998	1878	1148
MEAN	22.0	25.9	26.1	32.8	67.1	135	66.4	640	1674	710	60.6	38.3
MAX	28	46	35	45	100	284	100	1230	2260	1630	171	65
MIN	12	13	19	21	40	63	49	105	1100	183	25	20
AC-FT	1350	1540	1600	2020	3730	8290	3950	39380	99630	43630	3730	2280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

	MEAN	42.4	49.5	37.9	30.8	47.7	137	333	570	674	185	56.1	29.9
MAX	132	114	72.9	57.5	397	516	950	3059	2076	1030	246	235	
(WY)	1963	1974	1974	1994	1962	1943	1983	1973	1983	1983	1983	1973	
MIN	9.65	16.3	8.70	7.76	10.0	20.4	66.4	81.5	58.6	5.71	4.24	3.78	
(WY)	1957	1940	1979	1979	1949	1944	1995	1954	1954	1939	1994	1956	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1939 - 1995
ANNUAL TOTAL	36718.0	106441	---
ANNUAL MEAN	101	292	183
HIGHEST ANNUAL MEAN	---	---	531
LOWEST ANNUAL MEAN	---	---	43.7
HIGHEST DAILY MEAN	604	May 15	5330
LOWEST DAILY MEAN	1.0	Aug 21	1.0
ANNUAL SEVEN-DAY MINIMUM	1.4	Aug 19	1.1
INSTANTANEOUS PEAK FLOW	---	2300	6010a
INSTANTANEOUS PEAK STAGE	---	5.00	8.20b
ANNUAL RUNOFF (AC-FT)	72830	211100	132700
10 PERCENT EXCEEDS	319	1130	538
50 PERCENT EXCEEDS	34	56	51
90 PERCENT EXCEEDS	7.3	22	15

a Gage height, 6.74 ft.

b From floodmarks, backwater from ice.

PLATTE RIVER BASIN

06635500 SEMINOE RESERVOIR NEAR LEO, WY

LOCATION.--Lat 42°09'21", long 106°54'29", in NW¹/₄ NE¹/₄ sec.8, T.25 N., R.84 W., Carbon County, Hydrologic Unit 10180003, on upstream side near center of dam on North Platte River, 6.0 mi upstream from high-water line of Pathfinder Reservoir at elevation 5,850.1 ft, and 9.0 mi southwest of Leo.

DRAINAGE AREA.--7,230 mi², of which 589 mi² is probably noncontributing.

PERIOD OF RECORD.--February 1939 to current year. Monthend figures only for February, March 1939, October 1940 to September 1950, published in WSP 1310.

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

GAGE.--Water-stage recorder. Datum of gage is 6,190.00 ft above sea level (levels by Bureau of Reclamation). Prior to Apr. 20, 1939, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete-arch dam. Storage began Apr. 1, 1939, but some regulation for power development during period Jan. 1 to Mar. 31, 1939. Capacity, 1,017,000 acre-ft below elevation 6,357 ft, top of spillway gates. Figures given herein represent total contents, of which 31,700 acre-ft, capacity below elevation 6,239 ft, minimum operating level for power development, are not available for power development and 533 acre-ft, below elevation 6,185.09 ft, penstock invert, is dead storage. Water is used for irrigation and power development.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 1,073,000 acre-ft, June 20, 1949, elevation, 6,359.29 ft; minimum daily (since appreciable storage was attained), 19,040 acre-ft, Sept. 1, 1939, elevation, 6,228.00 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 989,000 acre-ft, July 23, elevation, 6,355.57 ft, June 5-6; minimum daily contents, 294,000 acre-ft, Feb. 19-22, minimum daily elevation, 6,302.23 ft.

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

6,300	277,000	6,330	575,000	6,360	1,080,000
6,310	359,000	6,340	716,000		
6,320	458,000	6,350	883,000		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	346000	331000	319000	310000	297000	297000	309000	295000	413000	882000	974000	887000
2	345000	330000	319000	310000	297000	297000	309000	295000	426000	890000	972000	883000
3	345000	330000	318000	309000	297000	297000	309000	295000	439000	898000	969000	880000
4	345000	330000	318000	309000	297000	298000	309000	295000	453000	907000	966000	877000
5	344000	330000	318000	308000	297000	298000	309000	295000	468000	916000	963000	874000
6	343000	329000	318000	307000	296000	298000	308000	296000	484000	923000	960000	871000
7	343000	329000	318000	306000	296000	298000	308000	297000	501000	928000	957000	868000
8	342000	329000	318000	305000	296000	298000	307000	298000	519000	933000	954000	864000
9	342000	329000	317000	305000	296000	298000	306000	298000	538000	937000	952000	861000
10	341000	329000	317000	305000	296000	298000	306000	299000	558000	942000	952000	858000
11	340000	328000	316000	304000	295000	298000	305000	301000	576000	946000	948000	856000
12	340000	328000	316000	304000	295000	298000	305000	302000	592000	951000	945000	854000
13	339000	328000	315000	304000	296000	299000	304000	304000	607000	955000	943000	852000
14	339000	328000	315000	303000	296000	299000	303000	308000	623000	961000	941000	851000
15	338000	327000	315000	303000	296000	300000	303000	311000	640000	964000	938000	849000
16	339000	327000	314000	303000	295000	301000	304000	312000	658000	971000	935000	848000
17	338000	326000	314000	303000	295000	301000	302000	315000	678000	975000	932000	846000
18	338000	325000	314000	302000	295000	302000	302000	318000	699000	978000	929000	845000
19	337000	325000	314000	302000	294000	303000	301000	322000	722000	982000	927000	843000
20	337000	324000	313000	302000	294000	304000	300000	326000	744000	984000	924000	842000
21	336000	324000	313000	301000	294000	304000	300000	330000	765000	986000	921000	841000
22	336000	324000	313000	301000	294000	305000	299000	333000	784000	988000	919000	841000
23	335000	323000	312000	301000	295000	306000	298000	340000	800000	989000	916000	839000
24	335000	323000	312000	300000	295000	307000	298000	348000	813000	988000	912000	839000
25	335000	322000	312000	300000	295000	307000	296000	356000	824000	986000	908000	839000
26	334000	321000	312000	300000	296000	308000	295000	362000	834000	985000	905000	838000
27	334000	321000	311000	299000	296000	309000	295000	369000	842000	982000	903000	838000
28	333000	321000	311000	299000	297000	308000	295000	377000	852000	982000	900000	837000
29	333000	320000	310000	299000	---	308000	295000	385000	862000	980000	895000	836000
30	332000	319000	310000	298000	---	308000	295000	393000	872000	977000	893000	836000
31	332000	---	310000	298000	---	309000	---	403000	---	976000	890000	---
MAX	346000	331000	319000	310000	297000	309000	309000	403000	872000	989000	974000	887000
MIN	332000	319000	310000	298000	294000	297000	295000	295000	413000	882000	890000	836000
(#)	6,306.88	6,305.35	6,304.23	6,302.71	6,302.55	6,304.05	6,302.36	6,314.69	6,349.43	6,354.94	6,350.39	6,347.38
(*)	-15,000	-13,000	-9,000	-12,000	-1,000	+12,000	-14,000	+108,000	+469,000	+104,000	-86,000	-54,000

CAL YR 1994 MAX 714000 MIN 310000 (*) -287,000

WTR YR 1995 MAX 989000 MIN 294000 (*) +489,000

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

06637750 ROCK CREEK ABOVE ROCK CREEK RESERVOIR, WY

LOCATION.--Lat 42°32'59", long 108°46'26", in NW¹/₄ NW¹/₄ sec.27, T.30 N., R.100 W., Fremont County, Hydrologic Unit 10180006, Shoshone National Forest, on left bank 200 ft upstream from high-water line of Rock Creek Reservoir, 2.7 mi downstream from Little Rock Creek, and 4.3 mi northwest of Atlantic City.

DRAINAGE AREA.--9.2 mi², approximately.

PERIOD OF RECORD.--May 1962 to September 30, 1995 (discontinued).

GAGE.--Water-stage recorders and concrete control. Elevation of gage is 8,330 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30, Nov. 3, 4, 8, 9, 13, 14, Nov. 23 to Mar. 9, Mar. 19, 20, 25-27, 30, and Apr. 3, 7-12. Records good except those for estimated daily discharges, which are poor. No diversions upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 70 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 5	1745	113	6.55	June 15	1645	*202	*7.11

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	2.2	1.6	1.3	1.7	1.4	2.2	4.9	48	39	5.8	2.8
2	1.4	1.9	1.6	1.2	1.7	1.5	2.2	5.1	57	36	5.6	2.8
3	1.6	1.8	1.5	1.3	1.8	1.5	2.3	5.0	69	35	5.4	2.8
4	2.3	1.8	1.5	1.3	1.8	1.5	2.3	5.7	73	32	5.3	2.8
5	2.7	1.7	1.5	1.4	1.8	1.4	2.5	6.5	87	29	5.4	3.1
6	2.7	1.8	1.5	1.5	1.8	1.4	3.3	6.6	100	28	5.0	2.8
7	2.2	2.0	1.5	1.6	1.8	1.4	3.8	6.3	85	26	4.6	2.9
8	2.3	2.0	1.4	1.6	1.8	1.5	4.0	6.4	69	24	4.4	3.3
9	2.5	1.9	1.4	1.7	1.8	1.5	3.7	8.1	60	22	4.2	3.0
10	2.6	1.9	1.4	1.7	1.7	1.6	3.3	11	53	22	4.3	2.9
11	2.5	1.9	1.4	1.7	1.5	1.7	3.5	13	59	21	4.5	3.0
12	2.3	2.0	1.5	1.7	1.4	2.0	4.5	13	77	20	4.1	2.8
13	2.0	1.9	1.5	1.7	1.3	1.8	5.2	12	106	18	3.8	2.7
14	2.0	1.8	1.5	1.7	1.4	1.8	5.8	12	131	16	3.7	2.6
15	2.3	1.7	1.5	1.6	1.5	2.1	4.9	18	150	14	3.7	2.5
16	2.3	1.8	1.5	1.6	1.6	2.3	4.4	23	132	13	3.5	2.5
17	2.0	1.9	1.6	1.6	1.6	2.2	4.3	26	115	13	3.5	2.4
18	2.6	1.9	1.7	1.5	1.7	2.3	4.3	30	99	12	3.5	3.2
19	2.8	1.9	1.7	1.5	1.6	2.0	4.0	36	93	13	3.4	4.1
20	2.8	1.9	1.8	1.4	1.6	2.1	4.1	41	86	13	3.4	3.2
21	2.6	1.9	1.8	1.4	1.6	2.2	3.9	44	81	11	3.3	3.2
22	2.5	1.8	1.8	1.4	1.6	2.1	3.9	42	73	10	3.3	3.2
23	2.6	1.8	1.8	1.3	1.7	2.5	3.8	36	66	9.3	3.5	3.2
24	2.9	1.7	1.8	1.4	1.6	1.9	3.9	32	61	8.6	3.4	3.3
25	3.0	1.7	1.8	1.4	1.6	1.9	3.9	30	57	8.2	3.4	3.2
26	2.5	1.6	1.7	1.4	1.5	1.8	3.8	29	55	7.6	3.2	3.0
27	2.6	1.6	1.7	1.6	1.5	1.8	4.0	27	53	7.2	3.0	2.9
28	2.7	1.5	1.6	1.6	1.4	1.9	4.6	27	53	6.9	3.0	2.7
29	2.4	1.5	1.6	1.5	---	1.9	4.7	29	46	6.6	2.9	3.4
30	2.3	1.6	1.5	1.5	---	2.0	4.7	35	41	6.1	2.8	3.7
31	2.4	---	1.4	1.5	---	2.0	---	41	---	6.1	2.8	---
TOTAL	73.9	54.4	49.1	46.6	45.4	57.0	115.8	661.6	2335	533.6	121.7	90.0
MEAN	2.38	1.81	1.58	1.50	1.62	1.84	3.86	21.3	77.8	17.2	3.93	3.00
MAX	3.0	2.2	1.8	1.7	1.8	2.5	5.8	44	150	39	5.8	4.1
MIN	1.4	1.5	1.4	1.2	1.3	1.4	2.2	4.9	41	6.1	2.8	2.4
AC-FT	147	108	97	92	90	113	230	1310	4630	1060	241	179

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
1962	2.27	3.84	1.03	1963	1.83	3.05	.94	1963	1.56	2.61	.79	1963
1963	1.83	3.05	.94	1964	1.35	2.31	.62	1964	1.29	1.92	.60	1964
1964	1.29	1.92	.60	1965	1.37	2.35	.65	1965	1.07	10.6	1.20	1965
1965	1.07	10.6	1.20	1966	4.07	61.7	7.50	1966	32.4	95.8	3.76	1966
1966	32.4	95.8	3.76	1967	61.7	1965	2.42	1967	19.8	5.13	1.22	1967
1967	19.8	5.13	1.22	1968	3.06	5.69	1.88	1968	3.06	5.69	1.88	1968
1968	3.06	5.69	1.88	1969	5.13	1.88	2.40	1969	5.13	1.88	2.40	1969
1969	5.13	1.88	2.40	1970	2.40	1.88	2.40	1970	2.40	1.88	2.40	1970

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1962 - 1995
ANNUAL TOTAL	1946.0	4184.1	--
ANNUAL MEAN	5.33	11.5	8.32
HIGHEST ANNUAL MEAN	--	--	15.6
LOWEST ANNUAL MEAN	--	--	2.63
HIGHEST DAILY MEAN	52 May 16	150 Jun 15	190 Jun 10 1965
LOWEST DAILY MEAN	1.2 Feb 9	1.2 Jan 2	.50 Jan 12-14 1963,
ANNUAL SEVEN-DAY MINIMUM	1.4 Feb 7	1.3 Dec 30	.55 Feb 1 1985
INSTANTANEOUS PEAK FLOW	--	202 Jun 15	218a Jun 1 1986
INSTANTANEOUS PEAK STAGE	--	7.11 Jun 15	8.54b Apr 22 1965
ANNUAL RUNOFF (AC-FT)	3860	8300	6030
10 PERCENT EXCEEDS	13	36	24
50 PERCENT EXCEEDS	1.9	2.6	2.1
90 PERCENT EXCEEDS	1.4	1.5	1.0

a Gage height, 7.17 ft.
b Backwater from ice.

LOCATION.--Lat 42°29'24", long 107°08'00", in SE 1/4 NE 1/4 NE 1/4 sec.16, T.29 N., R.86 W., Natrona County, Hydrologic Unit 101800006, on left bank 270 ft upstream from State Highway 220, 0.2 mi southwest of Independence Rock, 7 mi upstream from high-water line of Pathfinder Reservoir at elevation 5,850 ft, and 22 mi southwest of Alcova.

DRAINAGE AREA.--2,338 mi². Area at site prior to Apr. 1, 1992, 2327 mi²

PERIOD OF RECORD.--August 1913 to September 1924, October 1938 to current year (no winter records during 1974, 1975, 1977-81, and since 1983). Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1921, 1923-24. WSP 1710: Drainage area.

GAGE.--Water-stage recorder and sharp-crested weir. Elevation of gage is 5,890 ft above sea level, from topographic map. Aug. 28, 1913, to Sept. 30, 1924, nonrecording gages at site 7.0 mi upstream at different datums. Oct. 1, 1938, to Mar. 31, 1992, at site 6.6 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Several small reservoirs upstream from station, combined capacity, about 5,000 acre-ft, for irrigation. Diversions for irrigation of about 24,000 acres upstream from station. U.S. Bureau of Reclamation satellite telemeter at station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	137	215	934	708	175	39
2	---	---	---	---	---	---	156	232	924	708	165	44
3	---	---	---	---	---	---	148	265	846	708	156	54
4	---	---	---	---	---	---	144	306	855	684	150	56
5	---	---	---	---	---	---	141	316	890	603	139	54
6	---	---	---	---	---	---	144	349	971	555	128	53
7	---	---	---	---	---	---	159	364	1010	551	122	54
8	---	---	---	---	---	---	191	382	1050	520	115	54
9	---	---	---	---	---	---	260	442	1110	465	110	54
10	---	---	---	---	---	---	327	423	1130	461	106	57
11	---	---	---	---	---	---	386	435	1120	473	105	54
12	---	---	---	---	---	---	349	422	1150	492	86	54
13	---	---	---	---	---	---	298	420	1190	496	92	54
14	---	---	---	---	---	---	260	469	1200	485	86	54
15	---	---	---	---	---	---	246	510	1080	477	70	54
16	---	---	---	---	---	---	246	551	949	465	69	53
17	---	---	---	---	---	---	277	583	910	469	67	52
18	---	---	---	---	---	---	291	579	919	431	63	54
19	---	---	---	---	---	---	270	571	949	386	61	56
20	---	---	---	---	---	---	253	599	1010	364	60	54
21	---	---	---	---	---	---	239	647	1130	338	56	54
22	---	---	---	---	---	---	232	688	1230	324	54	54
23	---	---	---	---	---	---	225	716	1230	327	51	57
24	---	---	---	---	---	---	218	783	1070	334	50	60
25	---	---	---	---	---	---	212	820	915	306	50	63
26	---	---	---	---	---	---	208	864	829	281	45	69
27	---	---	---	---	---	---	205	924	797	256	45	66
28	---	---	---	---	---	---	205	1020	764	235	44	64
29	---	---	---	---	---	---	212	1120	733	218	41	61
30	---	---	---	---	---	---	218	997	725	201	40	63
31	---	---	---	---	---	---	---	949	---	185	39	---
TOTAL	---	---	---	---	---	---	6857	17961	29620	13506	2640	1669
MEAN	---	---	---	---	---	---	229	579	987	436	85.2	55.6
MAX	---	---	---	---	---	---	386	1120	1230	708	175	69
MIN	---	---	---	---	---	---	137	215	725	185	39	39
AC-FT	---	---	---	---	---	---	13600	35630	58750	26790	5240	3310

STATISTICS OF MONTHLY MEAN DRAIN FOR WATER YEARS 1914 - 1933, BY WATER YEAR (WY)												
MEAN	45.8	50.2	38.7	31.6	36.9	78.6	251	416	395	110	41.5	29.5
MAX	86.6	83.3	59.4	54.5	69.1	210	1869	1296	1129	436	99.4	114
(WY)	1916	1972	1972	1953	1968	1916	1924	1980	1983	1995	1984	1973
MIN	16.0	20.0	20.0	10.8	12.3	33.0	74.4	20.7	12.6	5.01	.92	1.90
(WY)	1941	1961	1941	1962	1949	1924	1963	1940	1977	1940	1940	1940

ANNUAL MEAN	--		126	
HIGHEST ANNUAL MEAN	--		312	1924
LOWEST ANNUAL MEAN	--		25.8	1940
HIGHEST DAILY MEAN	1230	Jun 22,23	4290	Apr 13 1924
LOWEST DAILY MEAN	39	Aug 31, Sep 1	.50	Jul 30 to Aug 12 1940#
ANNUAL SEVEN-DAY MINIMUM	--		.50	Jul 30 1940
INSTANTANEOUS PEAK FLOW	1250	Jun 22	4290a	Apr 13 1924#
INSTANTANEOUS PEAK STAGE	5.33	Jun 22	9.90	Apr 27 1983#
ANNUAL RUNOFF (AC-FT)	--		91260	
10 PERCENT EXCEEDS	--		388	
50 PERCENT EXCEEDS	--		52	
90 PERCENT EXCEEDS	--		18	

* During period of operation.
For period of record through 1995.
a Maximum observed.

PLATTE RIVER BASIN

181

06640500 PATHFINDER RESERVOIR NEAR ALCOVA, WY

LOCATION.--Lat 42°28'06", long 106°51'12", in NW¼ SW¼ sec.24, T.29 N., R.84 W., Natrona County, Hydrologic Unit 10180003, in gatehouse near left end of dam on North Platte River and 9.0 mi southwest of Alcova.

DRAINAGE AREA.--10,711 mi², of which 700 mi² is probably noncontributing.

PERIOD OF RECORD.--January 1909 to current year. Monthend figures only for some periods, published in WSP 1310.

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

GAGE.--Water-stage recorder. Datum of gage is 5,678.1 ft above sea level. Prior to Apr. 12, 1950, nonrecording gages near present site, and Apr. 12 to Sept. 30, 1950, water-stage recorder at present site, all at Bureau of Reclamation datum which was 1.9 ft lower.

REMARKS.--Reservoir is formed by masonry dam. Storage began in April 1909. Capacity, 1,016,000 acre-ft between elevations 5,668.1 ft, north outlet trashrack sill, and 5,850.1 ft, crest of spillway. No dead storage. Figures given herein represent total contents. Water is used to irrigate lands in Wyoming and Nebraska under the North Platte project. Since December 1960, water has been diverted directly through a tunnel to Fremont Canyon Powerplant, bypassing a section of river channel immediately below Pathfinder Dam.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 1,182,000 acre-ft, June 25-27, 1917, elevation, 5,858.86 ft, present datum; no storage at times during 1909-12, 1931, 1958-59.

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 645,000 acre-ft, Aug. 16, 29, elevation, 5,830.41, Aug. 16; minimum daily contents, 221,000 acre-ft, Oct. 1, minimum elevation, 5,789.60 ft.

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

5,785	192,000	5,800	297,000	5,815	440,000	5,830	638,000
5,790	224,000	5,805	340,000	5,820	499,000	5,835	720,000
5,795	259,000	5,810	387,000	5,825	566,000		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221000	254000	240000	245000	255000	265000	286000	293000	372000	484000	627000	643000
2	222000	255000	241000	245000	255000	265000	286000	293000	376000	490000	628000	644000
3	223000	255000	241000	246000	254000	265000	285000	293000	379000	496000	630000	643000
4	224000	256000	241000	246000	255000	266000	285000	295000	381000	501000	633000	642000
5	225000	255000	241000	247000	256000	267000	283000	296000	383000	507000	638000	641000
6	227000	255000	241000	247000	256000	267000	283000	297000	386000	511000	639000	640000
7	228000	254000	241000	247000	256000	267000	282000	298000	389000	518000	640000	641000
8	229000	254000	241000	248000	256000	268000	281000	302000	391000	525000	640000	641000
9	230000	254000	240000	248000	255000	269000	281000	305000	394000	533000	641000	642000
10	231000	254000	239000	248000	255000	270000	280000	308000	399000	536000	642000	641000
11	232000	253000	240000	249000	256000	271000	281000	312000	404000	542000	642000	640000
12	233000	253000	240000	250000	256000	272000	281000	316000	407000	548000	643000	639000
13	234000	253000	240000	250000	256000	273000	282000	317000	408000	554000	641000	638000
14	235000	253000	240000	250000	257000	274000	283000	318000	412000	558000	642000	637000
15	237000	254000	240000	250000	257000	275000	284000	320000	415000	563000	643000	636000
16	238000	253000	240000	251000	258000	275000	283000	322000	419000	568000	645000	634000
17	239000	252000	240000	251000	258000	277000	283000	325000	423000	573000	644000	633000
18	240000	251000	241000	251000	259000	279000	285000	327000	425000	578000	643000	635000
19	241000	250000	241000	251000	260000	281000	284000	329000	427000	583000	643000	634000
20	242000	249000	241000	252000	260000	282000	285000	331000	428000	587000	642000	634000
21	243000	248000	242000	252000	261000	282000	285000	334000	430000	591000	643000	634000
22	244000	246000	243000	252000	262000	283000	286000	337000	432000	596000	642000	635000
23	245000	245000	243000	252000	262000	283000	288000	339000	437000	599000	643000	635000
24	246000	244000	244000	252000	262000	284000	289000	341000	443000	602000	643000	636000
25	247000	242000	243000	252000	262000	283000	289000	344000	450000	607000	643000	636000
26	248000	241000	243000	252000	263000	284000	290000	349000	455000	613000	644000	636000
27	249000	240000	244000	253000	264000	285000	291000	353000	461000	616000	644000	637000
28	250000	240000	244000	252000	265000	284000	291000	357000	468000	617000	644000	638000
29	251000	240000	245000	253000	---	285000	290000	361000	473000	622000	645000	639000
30	252000	240000	245000	254000	---	285000	292000	365000	477000	624000	644000	640000
31	254000	---	245000	254000	---	285000	---	368000	---	625000	644000	---
MAX	254000	256000	245000	254000	265000	285000	292000	368000	477000	625000	645000	644000
MIN	221000	240000	239000	245000	254000	265000	280000	293000	372000	484000	627000	633000
(#)	5,794.37	5,792.37	5,793.03	5,794.41	5,795.80	5,798.51	5,799.31	5,808.04	5,118.23	5,829.10	5,830.35	5,830.11
(*)	+33,000	-14,000	+5,000	+9,000	+11,000	+20,000	+7,000	+76,000	+109,000	+148,000	+19,000	-4,000

CAL YR 1994 MAX 471000 MIN 218000 (*) -111,000

WTR YR 1995 MAX 645000 MIN 221000 (*) +419,000

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

PLATTE RIVER BASIN

06641500 ALCOVA RESERVOIR AT ALCOVA, WY

LOCATION.--Lat 42°32'52", long 106°43'08", in SE¹/₄ SE¹/₄ sec.24, T.30 N., R.83 W., Natrona County, Hydrologic Unit 10180007, in elevator shaft at right end of dam on North Platte River and 0.2 mi southwest of Alcovia.

DRAINAGE AREA.--10,766 mi², of which 700 mi² is probably noncontributing.

PERIOD OF RECORD.--February 1938 to current year. Prior to October 1950 monthend figures only, published in WSP 1310.

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

GAGE.--Water-stage recorder for elevations above 5,447.00 ft. Datum of gage is 5,320 ft above sea level (levels by Bureau of Reclamation). Prior to June 27, 1955, nonrecording gages near present site at same datum.

REMARKS.--Reservoir is formed by rock-fill dam completed in January 1938; storage began Feb. 8, 1938. Capacity, 184,300 acre-ft at elevation 5,500.00 ft, top of spillway gates. Dead storage, 100 acre-ft. Figures given herein represent total contents. Usable contents published prior to October 1956. Water is used for irrigation in North Platte River basin.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 190,300 acre-ft, Aug. 14, 15, 1952, elevation, 5,499.92 ft; minimum daily (since appreciable storage was attained), 1,980 acre-ft, Sept. 30, 1940, elevation, 5,353.56 ft. No usable storage prior to February 1938.

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 182,000 acre-ft, May 10, 18, June 13, elevation, 5,498.85 ft, June 13; minimum daily contents, 144,000 acre-ft, Nov. 2-6, minimum elevation, 5,482.43 ft, Nov. 4.

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

5,480	139,000	5,495	172,000
5,485	149,000	5,500	184,000
5,490	160,000		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178000	145000	156000	156000	155000	155000	156000	178000	180000	180000	180000	179000
2	178000	144000	155000	156000	156000	156000	155000	179000	179000	179000	181000	178000
3	177000	144000	154000	156000	156000	157000	157000	179000	178000	179000	181000	179000
4	176000	144000	155000	156000	156000	157000	158000	179000	178000	179000	180000	179000
5	175000	144000	156000	155000	155000	156000	160000	179000	178000	179000	178000	180000
6	174000	144000	156000	155000	155000	157000	161000	179000	179000	180000	178000	180000
7	173000	145000	156000	155000	155000	157000	163000	179000	179000	180000	179000	180000
8	171000	145000	156000	155000	156000	157000	165000	180000	179000	179000	179000	179000
9	170000	145000	157000	155000	157000	156000	165000	181000	180000	178000	179000	179000
10	169000	145000	157000	156000	157000	156000	167000	182000	179000	179000	179000	179000
11	168000	145000	157000	155000	157000	156000	168000	180000	179000	179000	179000	180000
12	167000	146000	157000	155000	156000	155000	168000	179000	179000	179000	179000	181000
13	166000	145000	157000	155000	157000	155000	168000	180000	182000	178000	180000	180000
14	165000	145000	158000	155000	157000	155000	169000	180000	181000	179000	179000	180000
15	164000	145000	157000	156000	156000	156000	170000	180000	180000	178000	179000	180000
16	163000	145000	157000	155000	156000	157000	171000	181000	180000	179000	178000	180000
17	162000	145000	157000	155000	156000	156000	172000	180000	179000	179000	179000	181000
18	160000	146000	157000	155000	156000	155000	173000	182000	179000	179000	179000	180000
19	159000	146000	156000	155000	155000	155000	174000	181000	179000	178000	179000	180000
20	158000	147000	156000	155000	155000	155000	174000	181000	180000	178000	179000	181000
21	157000	148000	156000	156000	154000	155000	176000	180000	180000	179000	178000	180000
22	156000	150000	155000	155000	155000	155000	175000	180000	180000	178000	179000	180000
23	155000	151000	155000	156000	155000	155000	174000	181000	179000	179000	180000	179000
24	154000	153000	155000	156000	155000	155000	175000	180000	180000	181000	180000	179000
25	153000	154000	155000	156000	156000	156000	177000	181000	179000	180000	180000	179000
26	152000	155000	156000	156000	156000	156000	177000	180000	180000	179000	179000	180000
27	151000	156000	156000	156000	156000	155000	177000	180000	181000	179000	179000	179000
28	150000	156000	156000	156000	155000	155000	178000	179000	180000	180000	179000	178000
29	149000	156000	156000	155000	---	156000	179000	179000	180000	179000	179000	178000
30	148000	156000	155000	155000	---	156000	178000	179000	181000	178000	179000	178000
31	146000	---	156000	155000	---	156000	---	180000	---	180000	178000	---
MAX	178000	156000	158000	156000	157000	157000	179000	182000	182000	181000	181000	181000
MIN	146000	144000	154000	155000	154000	155000	155000	178000	178000	178000	178000	178000
(#)	5,483.61	5,488.20	5,487.82	5,487.54	5,487.63	5,488.04	5,497.55	5,498.09	5,498.69	5,498.04	5,497.52	5,497.49
(*)	-32,000	+10,000	0	-1,000	0	+1,000	+22,000	+2,000	+1,000	-1,000	-2,000	0

CAL YR 1994 MAX 182000 MIN 144000 (*) +1,000
WTR YR 1995 MAX 182000 MIN 144000 (*) 0

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

COOPERATION.--Twenty-five discharge measurements provided by the Bureau of Reclamation and thirteen provided by the Wyoming State Engineer's Office.

a Gage height, 4.35 ft.
b Site and datum then is use.

06643500 NORTH PLATTE RIVER NEAR GOOSE EGG, WY

LOCATION.--Lat 42°42'38", long 106°33'34", in NW¹/₄ NW¹/₄ SW¹/₄ sec.28, T.32 N., R.81 W., Natrona County, Hydrologic Unit 10180007, on right bank 1.0 mi upstream from Coal Creek, 5.2 mi southwest of Goose Egg, 6.4 mi downstream from Bates Creek, and 16 mi southwest of Casper.

DRAINAGE AREA.--11,423 mi², of which 700 mi² is non-contributing. (Area at site used prior to March 1988, 11,439 mi², of which 700 mi² is non-contributing.)

PERIOD OF RECORD.--April 1917 to September 1919 (irrigation seasons only), May to September 1924, May to September 1947, May 1950 to September 1960, April 1983 to September 1984, October 1985 to September 1986, March 1988 to September 1995 (discontinued). Monthly discharge only for some periods, published in WSP 1310. Published as "near Casper" 1917-19, 1924.

REVISED RECORDS.--WDR WY-83-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,210 ft above sea level, from topographic map. April 1917 to September 1919, staff gage at site 3.2 mi downstream at different datum. May to September 1924 and May to September 1947, staff gages at site 6.0 mi downstream at different datum. May 1950 to September 1960, water-stage recorder at site 1.5 mi downstream at different datum. April 1983 to September 1984 and October 1985 to September 1986, water-stage recorder at site 4.2 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 28-30, Dec. 9-26, Dec. 31 to Jan. 30, and Feb. 11 to Mar. 4. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	542	626	590	470	532	440	516	564	884	568	1030	1710
2	550	644	581	460	538	460	525	564	819	557	973	1730
3	582	645	581	460	573	470	534	733	901	551	982	1750
4	598	648	584	460	559	470	537	838	939	552	982	1740
5	564	661	574	460	544	477	536	842	884	552	1050	1750
6	570	681	541	470	540	474	540	855	828	554	1170	1750
7	598	698	536	480	540	470	537	857	790	548	1230	1750
8	589	683	538	480	536	466	527	2360	796	557	1240	1750
9	599	660	510	490	532	466	525	1960	980	558	1240	1760
10	607	668	520	500	534	469	534	1440	843	563	1250	1750
11	621	681	520	510	500	518	530	917	749	567	1260	1750
12	607	685	540	530	480	705	528	970	711	790	1250	1760
13	597	692	560	540	470	567	533	1080	685	835	1250	1750
14	605	692	560	540	470	491	541	899	657	869	1250	1720
15	625	693	560	520	480	521	548	841	640	969	1260	1450
16	648	706	550	500	490	710	544	1030	640	983	1250	1420
17	658	712	520	500	510	647	540	1010	633	978	1280	1420
18	660	717	520	510	520	580	540	981	697	966	1470	1230
19	672	731	520	530	530	589	540	942	633	957	1500	904
20	659	747	530	540	530	582	537	932	607	962	1490	660
21	568	748	530	540	530	535	535	915	599	964	1500	545
22	564	562	530	540	530	560	545	883	575	951	1520	533
23	564	555	530	540	500	561	545	870	564	971	1540	534
24	573	546	520	540	460	522	543	849	565	961	1520	530
25	581	550	500	540	460	517	541	876	564	960	1520	529
26	588	553	490	550	460	516	556	1220	564	960	1550	534
27	586	559	499	560	460	513	555	1080	570	958	1580	534
28	594	540	494	550	450	514	558	1020	1070	967	1580	544
29	597	520	489	530	---	515	558	936	593	972	1620	556
30	609	560	495	540	---	509	563	973	578	962	1710	556
31	611	---	480	552	---	511	---	910	---	1030	1700	---
TOTAL	18586	19363	16492	15932	14258	16345	16191	31147	21558	25092	41747	36899
MEAN	600	645	532	514	509	527	540	1005	719	809	1347	1230
MAX	672	748	590	560	573	710	563	2360	1070	1030	1710	1760
MIN	542	520	480	460	450	440	516	564	564	548	973	529
AC-FT	36870	38410	32710	31600	28280	32420	32110	61780	42760	49770	82810	73190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
MEAN	526	456	399	398	372
MAX	1529	1206	971	941	901
(WY)	1986	1960	1984	1986	1984
MIN	33.4	26.6	23.7	17.3	22.0
(WY)	1957	1957	1957	1957	1955
	1957	1957	1957	1957	1957

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1947 - 1995
ANNUAL TOTAL	487200	273610	--
ANNUAL MEAN	1335	750	1257
HIGHEST ANNUAL MEAN	--	--	2572
LOWEST ANNUAL MEAN	--	--	717
HIGHEST DAILY MEAN	3930	Aug 24	2360 May 8
LOWEST DAILY MEAN	480	Dec 31	440 Mar 1
ANNUAL SEVEN-DAY MINIMUM	492	Dec 25	456 Feb 24
INSTANTANEOUS PEAK FLOW	--	--	4490a May 8
INSTANTANEOUS PEAK STAGE	--	--	6.38c Jan 23
ANNUAL RUNOFF (AC-FT)	966400	542700	910900
10 PERCENT EXCEEDS	3400	1260	3720
50 PERCENT EXCEEDS	581	570	662
90 PERCENT EXCEEDS	516	500	30

For period of record, 1917 to 1995.

a Gage height, 5.76 ft.

b Maximum observed.

c Backwater from ice jam.

d Site and datum then in use.

YELLOWSTONE RIVER BASIN

185

06645000 NORTH PLATTE RIVER BELOW CASPER, WY

LOCATION.--Lat 42°51'40", long 106°12'53", in SE¹/₄ NW¹/₄ NW¹/₄ sec.4, T.33 N., R.78 W., Natrona County, Hydrologic Unit 10180007, at New Mystery Bridge, 0.1 mi upstream from Claude Creek, 0.6 mi north of U.S. Highways 20 and 87, 5.8 mi east of city hall in Casper, and 9.5 mi downstream from Casper Creek.

DRAINAGE AREA.--12,574 mi², of which 831 mi² is probably noncontributing.

PERIOD OF RECORD.--Water years 1947-52, 1957-59, 1968-89, October 1990 to current year.

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

REMARKS.--Discharge records furnished by U.S. Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SOLVED SATUR- ATION) (00300) (00301)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	
DEC 14...	1000	704	764	8.1	0.5	1.0	632	12.1	102	<1
MAR 14...	1350	535	937	8.3	8.0	16.0	638	9.6	97	6
MAY 16...	1430	1580	878	8.0	14.0	15.0	630	10.3	122	8
JUL 17...	0810	970	720	8.1	18.0	17.0	640	7.5	95	4

06645150 SMITH CREEK ABOVE OTTER CREEK, NEAR CASPER, WY

LOCATION.--Lat 42°38'59", long 106°10'46", in NE¹/₄ NW¹/₄ NW¹/₄ sec.22, T.31 N., R.78 W., Natrona County, Hydrologic Unit 10180007, on right bank 1.3 mi upstream from Otter Creek and 16 mi southeast of Casper.

DRAINAGE.--9.91 mi².

PERIOD OF RECORD.--October 1974 to September 1979, October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,550 ft above sea level, from topographic map. Prior to Oct. 1, 1976, at site 200 ft downstream at datum 7.22 ft lower.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 9, Nov. 14-16, 19-21, Nov. 24 to Dec. 3, Dec. 31 to Jan. 12, Jan. 16 to Feb. 25, Feb. 28 to Mar. 1, and Mar. 5-8. Records fair except those for estimated daily discharges, which are poor. No diversion upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 12	2330	42	1.96	June 3	1730	84	2.54
May 15	1800	*93	*2.64	June 17	2300	37	1.88
May 27	0130	88	2.58	June 27	2200	31	1.76

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.2	1.4	1.1	1.2	1.2	1.6	3.2	27	13	8.4	6.4
2	1.5	1.2	1.5	1.1	1.4	1.1	1.5	3.8	26	12	7.5	6.4
3	1.9	1.1	1.6	1.1	1.4	1.1	1.5	6.3	40	12	7.3	6.4
4	2.1	1.1	1.7	1.1	1.4	1.0	1.4	5.2	31	12	7.4	6.5
5	1.9	1.3	1.5	1.1	1.4	1.0	1.4	4.8	26	12	7.2	6.2
6	2.1	1.4	1.5	1.2	1.3	1.0	1.4	5.5	23	11	7.2	6.3
7	2.0	1.4	1.5	1.2	1.3	1.0	1.4	4.8	22	11	7.0	6.5
8	1.7	1.4	1.4	1.2	1.3	1.0	1.6	8.1	26	11	7.1	6.6
9	1.6	1.4	1.3	1.3	1.2	1.1	1.7	19	29	11	7.4	6.1
10	1.5	1.5	1.3	1.3	1.1	1.5	1.8	19	24	11	7.5	6.0
11	1.4	1.5	1.3	1.3	1.1	1.8	1.9	25	22	10	7.6	5.8
12	1.5	1.5	1.3	1.3	1.2	1.7	1.6	36	20	10	7.1	5.7
13	1.4	1.5	1.3	1.4	1.2	1.5	1.5	33	19	10	6.9	5.6
14	1.5	1.4	1.4	1.5	1.2	1.4	1.6	25	18	10	6.9	5.5
15	1.7	1.4	1.4	1.4	1.2	1.4	1.8	45	17	10	6.8	5.5
16	1.8	1.4	1.3	1.4	1.2	1.4	1.9	51	17	9.9	6.8	5.5
17	1.7	1.5	1.3	1.3	1.2	1.4	1.9	45	18	9.9	6.8	5.5
18	1.8	1.5	1.4	1.3	1.2	1.4	1.8	34	19	9.7	6.8	5.6
19	1.8	1.4	1.4	1.3	1.2	1.5	1.8	29	16	10	6.9	5.7
20	1.7	1.2	1.5	1.3	1.2	1.5	1.9	27	15	10	6.8	6.1
21	1.6	1.3	1.5	1.5	1.2	1.5	2.0	24	15	9.8	6.8	6.3
22	1.6	1.4	1.4	1.4	1.3	1.9	1.9	24	14	9.9	6.7	6.1
23	1.5	1.4	1.4	1.4	1.3	1.4	2.0	23	14	9.6	6.9	5.6
24	1.4	1.3	1.4	1.4	1.3	1.4	2.1	25	14	9.2	6.8	5.3
25	1.4	1.3	1.4	1.4	1.3	1.9	2.2	25	13	9.1	6.8	5.2
26	1.3	1.3	1.4	1.4	1.3	1.7	2.7	25	13	8.8	6.8	5.2
27	1.3	1.3	1.5	1.4	1.2	2.0	2.8	57	14	8.6	6.8	5.3
28	1.3	1.3	1.5	1.4	1.2	2.0	3.1	43	16	8.7	6.7	5.3
29	1.3	1.2	1.5	1.2	---	1.9	3.1	38	14	8.8	6.6	6.0
30	1.2	1.3	1.4	1.2	---	2.0	3.8	33	13	8.8	6.6	7.0
31	1.2	---	1.2	1.2	---	1.6	---	29	---	9.1	6.6	---
TOTAL	49.3	40.4	43.9	40.1	35.0	45.3	58.7	775.7	595	315.9	217.5	177.2
MEAN	1.59	1.35	1.42	1.29	1.25	1.46	1.96	25.0	19.8	10.2	7.02	5.91
MAX	2.1	1.5	1.7	1.5	1.4	2.0	3.8	57	40	13	8.4	7.0
MIN	1.2	1.1	1.2	1.1	1.1	1.0	1.4	3.2	13	8.6	6.6	5.2
AC-FT	98	80	87	80	69	90	116	1540	1180	627	431	351

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1.67	1.58	1.52	1.40	1.39	1.51	2.89	8.01	5.07	2.92	2.30	2.02									
MAX	2.65	2.40	2.26	2.06	1.96	2.08	7.09	25.0	19.8	10.2	7.02	5.91									
(WY)	1976	1976	1976	1976	1976	1976	1977	1977	1977	1977	1977	1977									
MIN	.73	.92	.62	.61	.72	.93	1.11	1.20	.95	.85	.70	.75									
(WY)	1991	1993	1991	1991	1991	1991	1990	1990	1990	1990	1990	1990									

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1975 - 1995
ANNUAL TOTAL	724.1	2394.0	---
ANNUAL MEAN	1.98	6.56	2.70
HIGHEST ANNUAL MEAN	---	---	6.56
LOWEST ANNUAL MEAN	---	---	.94
HIGHEST DAILY MEAN	6.0 Apr 22	57 May 27	57 May 27 1995
LOWEST DAILY MEAN	1.1 Nov 3	1.0 Mar 4-8	.32 Dec 21 1990
ANNUAL SEVEN-DAY MINIMUM	1.2 Oct 29	1.0 Mar 2	.43 Dec 19 1990
INSTANTANEOUS PEAK FLOW	---	93 May 15	143a May 5 1993
INSTANTANEOUS PEAK STAGE	---	2.64 May 15	2.95 May 5 1993
ANNUAL RUNOFF (AC-FT)	1440	4750	1950
10 PERCENT EXCEEDS	3.2	19	5.0
50 PERCENT EXCEEDS	1.7	1.8	1.7
90 PERCENT EXCEEDS	1.4	1.2	.94

a From rating curve extended above 20 ft³/s, on basis of slope-area measurement of peak flow.

PLATTE RIVER BASIN

187

06645164 OTTER CREEK AT MOUTH, NEAR CASPER, WY

LOCATION.--Lat 42°39'28", long 106°09'48", in SW¹/₄ SW¹/₄ NW¹/₄ sec.14, T.31 N., R.78 W., Natrona County, Hydrologic Unit 10180007, on left bank 0.2 mi upstream from mouth and 15.0 mi southeast of Casper.

DRAINAGE AREA.--6.50 mi².

PERIOD OF RECORD.--October 1987 to current year.

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

REMARKS.--Estimated daily discharges: Nov. 15, 19-21, 27-30, Jan. 2-7, 17-20, Feb. 10-11, Feb. 28 to Mar. 1, Mar. 4-8, and Aug. 8-9. Records good except those for May to September, which are fair and those for estimated daily discharges, which are poor. No diversion upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 13	0130	22	2.04	June 3	0100	57	2.55
May 26	2200	*87	*2.85	June 27	2230	56	2.54

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.1	1.4	1.0	1.2	.95	1.2	2.4	28	17	7.0	3.5
2	1.2	1.2	1.4	1.0	1.2	1.0	1.2	3.3	32	16	6.5	3.4
3	1.5	1.2	1.3	1.0	1.1	1.0	1.2	5.4	46	16	6.3	3.5
4	1.7	1.3	1.2	1.0	1.1	1.0	1.2	4.5	38	15	6.0	3.4
5	1.6	1.4	1.2	1.0	1.1	1.0	1.3	5.2	46	15	5.5	3.3
6	1.7	1.5	1.2	1.0	1.1	1.0	1.4	6.0	46	13	5.5	3.2
7	1.6	1.5	1.1	1.0	1.1	1.0	1.7	4.9	39	12	5.3	3.2
8	1.4	1.5	1.1	1.1	1.0	1.0	2.1	9.5	46	12	5.0	3.4
9	1.2	1.4	1.1	1.1	1.0	1.1	2.0	10	47	12	4.8	3.6
10	1.2	1.4	1.1	1.1	.97	1.2	1.7	9.6	38	11	4.7	3.5
11	1.2	1.4	1.1	1.1	.93	1.7	1.7	15	34	10	4.8	3.4
12	1.2	1.5	1.1	1.0	1.0	1.7	1.6	19	34	9.4	4.7	3.3
13	1.2	1.5	1.1	1.0	1.1	1.4	1.6	17	32	10	4.6	3.3
14	1.2	1.4	1.1	1.1	1.1	1.3	2.0	13	31	10	4.6	3.2
15	1.3	1.3	1.1	1.1	1.1	1.4	2.0	18	27	9.1	4.5	3.1
16	1.4	1.4	1.1	1.1	1.2	1.6	2.0	23	25	9.0	4.3	3.0
17	1.3	1.4	1.1	1.0	1.2	1.4	1.8	24	26	9.0	4.2	3.0
18	1.3	1.4	1.1	1.0	1.1	1.4	1.8	22	26	9.2	4.2	3.2
19	1.3	1.3	1.1	1.0	1.2	1.6	1.7	23	25	9.3	4.3	3.4
20	1.2	1.3	1.0	1.0	1.3	1.4	1.7	23	24	9.3	4.2	3.4
21	1.2	1.3	1.0	1.1	1.4	1.4	1.8	25	23	9.1	4.1	3.4
22	1.2	1.3	1.0	1.2	1.3	1.7	1.6	26	23	9.3	4.0	3.4
23	1.2	1.7	.99	1.3	1.2	1.4	1.9	22	23	9.1	4.0	3.3
24	1.2	1.7	1.0	1.4	1.3	1.4	1.9	20	22	8.5	4.0	3.2
25	1.2	1.5	.98	1.4	1.3	1.2	2.2	20	22	8.5	4.0	3.1
26	1.2	1.3	.99	1.3	1.3	1.2	2.1	28	21	8.4	3.9	3.0
27	1.1	1.2	.99	1.2	1.2	1.2	2.2	45	22	7.8	3.8	3.0
28	1.2	1.1	1.0	1.1	1.0	1.2	2.7	27	23	7.3	3.8	2.9
29	1.2	1.1	1.0	1.1	---	1.2	2.4	25	19	7.2	3.7	3.0
30	1.1	1.3	1.0	1.1	---	1.2	2.6	26	18	7.0	3.6	3.6
31	1.1	---	1.0	1.2	---	1.2	---	26	---	7.3	3.6	---
TOTAL	39.7	40.9	33.95	34.1	32.10	39.45	54.3	547.8	906	322.8	143.5	98.2
MEAN	1.28	1.36	1.10	1.10	1.15	1.27	1.81	17.7	30.2	10.4	4.63	3.27
MAX	1.7	1.7	1.4	1.4	1.4	1.7	2.7	45	47	17	7.0	3.6
MIN	1.1	1.1	.98	1.0	.93	.95	1.2	2.4	18	7.0	3.6	2.9
AC-FT	79	81	67	68	64	78	108	1090	1800	640	285	195

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1995, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1.14	1.14	1.01	.95	1.00	1.29	2.80	7.77
MAX	1.79	1.60	1.54	1.35	1.46	2.02	5.01	17.7
(WY)	1994	1994	1994	1994	1994	1994	1994	1995
MIN	.73	.69	.67	.60	.56	.78	1.53	1.79
(WY)	1993	1993	1993	1991	1990	1990	1989	1989

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1988 - 1995
ANNUAL TOTAL	762.25	2292.80	--
ANNUAL MEAN	2.09	6.28	2.55
HIGHEST ANNUAL MEAN	--	--	6.28
LOWEST ANNUAL MEAN	--	--	1.14
HIGHEST DAILY MEAN	11	47	47
LOWEST DAILY MEAN	.98	.93	.43
ANNUAL SEVEN-DAY MINIMUM	.99	.99	.50
INSTANTANEOUS PEAK FLOW	--	87	87
INSTANTANEOUS PEAK STAGE	--	2.85	5.11a
ANNUAL RUNOFF (AC-FT)	1510	4550	1850
10 PERCENT EXCEEDS	3.5	22	5.2
50 PERCENT EXCEEDS	1.4	1.6	1.3
90 PERCENT EXCEEDS	1.1	1.0	.69

a Backwater from ice.

PLATTE RIVER BASIN

06645166 SMITH CREEK BELOW OTTER CREEK, NEAR CASPER, WY

LOCATION.--Lat 42°40'20", long 106°09'03", in SE¹/₄ SW¹/₄ NE¹/₄ sec.11, T.31 N., R.78 W., Natrona County, Hydrologic Unit 10180007, on left bank 0.4 mi upstream from Spring Creek, 1.2 mi downstream from Otter Creek, and 14.6 mi southeast of Casper.

DRAINAGE AREA.--18.5 mi².

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,980 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: July 28. Records good. No diversion upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 15	2200	104	3.42	June 3	0230	157	3.81
May 27	0230	*189	*3.97	June 27	2230	120	3.60

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.7	1.6	1.6	1.5	1.5	2.0	3.9	64	28	15	9.3
2	1.5	1.7	1.6	1.6	1.6	1.5	2.0	4.4	69	26	14	9.0
3	1.8	1.7	1.6	1.6	1.6	1.4	2.0	7.6	105	26	14	9.0
4	2.2	1.7	1.6	1.6	1.6	1.4	2.0	6.5	86	26	14	8.9
5	2.4	1.6	1.6	1.6	1.6	1.4	2.0	6.4	82	24	14	8.8
6	2.4	1.8	1.6	1.9	1.5	1.5	2.0	7.9	75	23	13	8.6
7	2.4	2.0	1.6	1.8	1.5	1.5	2.2	7.4	69	22	13	8.6
8	2.1	2.0	1.6	1.8	1.5	1.5	2.6	24	76	22	12	8.7
9	2.1	1.8	1.6	1.9	1.3	1.6	2.7	25	80	21	12	9.5
10	2.1	1.8	1.7	2.0	1.3	1.7	2.6	36	71	20	12	9.2
11	1.9	1.8	1.9	2.0	1.3	2.2	2.4	47	61	20	12	8.8
12	2.0	1.8	1.8	1.8	1.4	2.5	2.5	67	59	20	12	8.6
13	2.0	2.0	1.9	1.9	1.4	2.3	2.3	68	56	19	11	8.6
14	2.0	1.9	1.9	1.9	1.4	2.2	2.4	63	54	19	11	8.4
15	2.1	1.6	1.6	1.9	1.4	2.2	2.6	66	51	20	11	8.3
16	2.5	1.8	1.8	1.9	1.5	2.3	2.5	74	48	19	11	8.2
17	2.2	1.8	1.9	1.8	1.5	2.4	2.5	69	48	19	11	8.0
18	2.2	1.8	2.0	1.5	1.4	2.4	2.5	64	51	18	11	8.0
19	2.2	1.8	2.0	1.7	1.4	2.4	2.5	60	42	18	11	8.1
20	2.1	1.7	2.0	1.7	1.6	2.4	2.5	58	39	18	11	8.0
21	2.1	1.7	2.0	1.7	1.9	2.3	2.5	56	36	18	11	8.2
22	2.2	1.7	2.0	1.6	1.8	2.4	2.6	54	34	18	11	8.4
23	2.1	1.7	2.0	1.6	1.8	2.3	2.6	48	32	18	10	8.7
24	1.9	1.7	2.0	1.6	1.8	2.3	2.6	46	31	17	10	8.6
25	1.8	1.7	2.0	1.6	2.0	2.2	2.9	47	30	17	9.9	8.4
26	1.8	1.7	2.0	1.6	1.9	2.3	3.2	57	29	16	9.9	8.3
27	1.8	1.7	1.8	1.6	1.9	2.0	3.3	131	33	16	9.8	8.3
28	1.7	1.6	1.8	1.6	1.6	2.2	3.8	80	41	15	9.8	8.2
29	1.7	1.6	1.8	1.5	---	2.1	3.7	70	32	14	9.7	8.1
30	1.7	1.6	1.8	1.5	---	2.0	3.9	64	29	14	9.5	9.6
31	1.7	---	1.6	1.5	---	2.1	---	63	---	15	9.5	---
TOTAL	62.1	52.5	55.7	52.9	44.0	62.5	77.9	1481.1	1613	606	355.1	257.4
MEAN	2.00	1.75	1.80	1.71	1.57	2.02	2.60	47.8	53.8	19.5	11.5	8.58
MAX	2.5	2.0	2.0	2.0	2.0	2.5	3.9	131	105	28	15	9.6
MIN	1.4	1.6	1.6	1.5	1.3	1.4	2.0	3.9	29	14	9.5	8.0
AC-FT	123	104	110	105	87	124	155	2940	3200	1200	704	511

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1995, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1.91	1.81	1.74	1.57	1.50	1.94	4.65	15.0
MAX	3.35	3.02	3.04	2.74	2.60	3.34	10.7	47.8
(WY)	1994	1994	1994	1994	1994	1994	1988	1995
MIN	.79	.72	.58	.52	.59	.84	2.17	2.65
(WY)	1991	1993	1991	1991	1991	1991	1991	1989

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1988 - 1995
ANNUAL TOTAL	1293.5	4720.2	--
ANNUAL MEAN	3.54	12.9	4.45
HIGHEST ANNUAL MEAN	--	--	12.9
LOWEST ANNUAL MEAN	--	--	1.61
HIGHEST DAILY MEAN	19 Apr 23	131 May 27	131 May 27
LOWEST DAILY MEAN	1.4 Sep 13	1.3 Feb 9-11	.26 Dec 22
ANNUAL SEVEN-DAY MINIMUM	1.4 Sep 25	1.4 Feb 9	.45 Dec 29
INSTANTANEOUS PEAK FLOW	--	189 May 27	189 May 27
INSTANTANEOUS PEAK STAGE	--	3.97 May 27	3.97 May 27
ANNUAL RUNOFF (AC-FT)	2570	9360	3220
10 PERCENT EXCEEDS	6.6	47	9.5
50 PERCENT EXCEEDS	2.6	2.4	2.1
90 PERCENT EXCEEDS	1.6	1.6	.77

06645174 BEAVER CREEK ABOVE POLE CREEK, NEAR CASPER, WY

LOCATION.--Lat 42°42'50", long 106°10'56", in NW¹/₄ NW¹/₄ SW¹/₄ sec.27, T.32 N., R.78 W., Natrona County, Hydrologic Unit 10180007, on left bank 80 ft downstream from unnamed tributary, 1.6 mi upstream from Pole Creek, and 11.3 mi southeast of Casper.

DRAINAGE AREA.--4.67 mi².

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,800 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good, except those for May and June, which are fair. One small pipeline diverts water upstream for landowner's drinking water supply.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 8	1700	Not determined	*3.19a	June 8	2100	41	1.99
May 9	1000	69	2.34	June 27	2200	74	2.39
May 27	0300	63	2.27	July 19	1400	25	1.70
June 3	0100	*75	2.40				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.4	3.2	3.1	3.3	3.1	3.6	4.1	29	9.9	6.3	5.2
2	3.6	3.4	3.2	3.0	3.4	3.1	3.7	4.3	34	9.5	6.1	5.4
3	4.0	3.4	3.2	3.0	3.2	3.2	3.7	5.5	44	9.4	6.2	5.3
4	4.0	3.4	3.2	3.1	3.2	3.4	3.6	4.8	30	9.4	6.2	5.3
5	3.7	3.4	3.2	3.2	3.2	3.4	3.7	5.3	29	9.4	6.2	5.2
6	3.9	3.5	3.2	3.2	3.2	3.4	3.7	6.2	23	9.3	5.8	5.2
7	3.5	3.6	3.2	3.2	3.2	3.4	3.7	6.7	20	9.4	5.7	5.3
8	3.4	3.5	3.2	3.1	3.2	3.4	3.8	31	29	9.2	5.7	5.5
9	3.4	3.4	3.2	3.1	3.3	3.5	4.0	40	27	8.9	6.0	5.6
10	3.4	3.4	3.2	3.2	3.2	3.6	3.9	17	24	8.4	6.2	5.3
11	3.4	3.3	3.2	3.3	3.2	3.6	3.9	16	22	8.3	6.2	5.3
12	3.4	3.3	3.0	3.2	3.2	3.8	3.9	18	22	8.1	6.1	5.2
13	3.4	3.4	3.0	3.2	3.2	3.7	3.8	18	21	8.0	6.0	5.0
14	3.5	3.4	3.0	3.2	3.3	3.6	3.8	13	19	8.2	5.9	5.0
15	3.6	3.3	3.0	3.2	3.3	3.5	3.7	13	17	8.0	5.8	4.9
16	3.5	3.4	3.0	3.3	3.2	3.4	3.8	16	16	7.8	5.7	5.0
17	3.4	3.4	3.1	3.2	3.1	3.4	3.8	15	15	7.6	5.6	5.0
18	3.4	3.2	3.2	3.2	3.0	3.4	3.7	17	15	7.4	5.7	5.4
19	3.4	3.2	3.2	3.2	3.2	3.7	3.7	17	13	9.1	5.8	5.4
20	3.4	3.2	3.2	3.2	3.4	3.7	3.7	17	12	7.7	5.7	5.7
21	3.4	3.0	3.2	3.2	3.5	3.7	3.9	18	11	7.3	5.6	5.6
22	3.4	3.0	3.2	3.2	3.4	3.7	3.7	19	11	7.2	5.6	5.7
23	3.4	3.0	3.2	3.2	3.4	3.7	3.9	17	10	7.2	5.6	5.4
24	3.2	3.1	3.3	3.2	3.4	3.8	3.8	14	10	7.0	5.4	5.1
25	3.2	3.2	3.2	3.2	3.4	3.7	4.0	14	9.4	6.8	5.3	5.1
26	3.4	3.2	3.0	3.3	3.4	3.7	4.2	18	9.2	6.6	5.3	5.0
27	3.4	3.2	3.0	3.1	3.3	3.7	4.3	49	14	6.5	5.3	5.0
28	3.4	3.2	3.1	3.2	3.2	3.7	4.4	30	16	6.5	5.3	4.9
29	3.4	3.2	3.1	3.0	---	3.6	4.2	26	11	6.4	5.2	5.1
30	3.4	3.0	3.2	3.1	---	3.6	4.3	26	10	6.3	5.2	5.3
31	3.4	---	3.1	3.1	---	3.6	---	27	---	6.4	5.3	---
TOTAL	108.0	98.6	97.5	98.2	91.5	109.8	115.9	542.9	572.6	247.2	178.0	157.4
MEAN	3.48	3.29	3.15	3.17	3.27	3.54	3.86	17.5	19.1	7.97	5.74	5.25
MAX	4.0	3.6	3.3	3.3	3.5	3.8	4.4	49	44	9.9	6.3	5.7
MIN	3.2	3.0	3.0	3.0	3.0	3.1	3.6	4.1	9.2	6.3	5.2	4.9
AC-FT	214	196	193	195	181	218	230	1080	1140	490	353	312

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1995, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	3.75	3.75	3.57	3.50	3.59	3.81	4.10	6.81
MAX	4.35	4.46	4.22	3.94	4.13	4.78	5.33	17.5
(WY)	1994	1994	1994	1994	1988	1988	1988	1995
MIN	3.16	3.21	3.00	2.88	3.16	3.36	3.66	3.83
(WY)	1993	1993	1993	1993	1993	1993	1990	1992

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1988 - 1995
ANNUAL TOTAL	1340.7	2417.6	---
ANNUAL MEAN	3.67	6.62	4.28
HIGHEST ANNUAL MEAN	---	---	6.62
LOWEST ANNUAL MEAN	---	---	3.52
HIGHEST DAILY MEAN	6.5	49	49
LOWEST DAILY MEAN	3.0	3.0	2.6
ANNUAL SEVEN-DAY MINIMUM	3.0	3.0	2.7
INSTANTANEOUS PEAK FLOW	---	75b	75
INSTANTANEOUS PEAK STAGE	---	3.19a	3.19a
ANNUAL RUNOFF (AC-FT)	2660	4800	3100
10 PERCENT EXCEEDS	4.1	15	5.2
50 PERCENT EXCEEDS	3.6	3.7	3.7
90 PERCENT EXCEEDS	3.2	3.2	3.2

a Backwater due to drift and bank slumpage.

b Gage height, 2.40 ft.

PLATTE RIVER BASIN

06645178 POLE CREEK NEAR CASPER, WY

LOCATION.--Lat 42°41'48", long 106°10'42", in SW¹/₄ NE¹/₄ SW¹/₄ sec.34, T.32 N., R.78 W., Natrona County, Hydrologic Unit 10180007, on left bank 200 ft upstream from unnamed tributary, 1.9 mi upstream from mouth, and 12.4 mi southeast of Casper.

DRAINAGE AREA.--2.70 mi².

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder and bedrock control. Elevation of gage is 5,880 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 3, 21, 22, 29, 30, Dec. 4-7, Jan. 1-9, 17-19, Feb. 9-11, 13-15, May 26, 27, and June 2, 3. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 11	1700	21	1.93	June 2	2200	69a	2.65a
May 15	1630	27	2.05	June 8	2000	32	2.22
May 26	2200	*123a	2.92a	June 27	2230	50	2.36
May 27	0100	b	*3.11				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.53	.49	.47	.35	.49	.48	.92	1.7	10	4.3	1.8	1.2
2	.58	.45	.49	.37	.55	.48	.90	2.6	18	3.9	1.6	1.2
3	.66	.40	.50	.36	.43	.53	.90	3.4	22	3.6	1.6	1.2
4	.74	.50	.42	.33	.43	.54	.94	2.9	17	3.5	1.6	1.2
5	.72	.55	.38	.35	.43	.63	.98	3.6	14	3.3	1.6	1.2
6	.90	.69	.40	.38	.43	.49	1.1	4.1	10	3.0	1.5	1.2
7	.68	.81	.43	.41	.43	.43	1.2	4.1	7.0	3.0	1.5	1.2
8	.57	.71	.44	.45	.45	.43	1.2	8.7	14	2.8	1.5	1.2
9	.56	.66	.44	.50	.40	.49	1.0	10	15	2.7	1.3	1.3
10	.55	.67	.46	.53	.38	.63	.95	9.7	15	2.9	1.2	1.3
11	.52	.69	.46	.51	.35	1.2	.98	14	13	2.6	1.2	1.3
12	.52	.80	.46	.42	.32	1.1	.97	16	12	2.4	1.2	1.2
13	.52	.73	.46	.42	.35	.79	1.0	12	10	2.4	1.2	1.2
14	.52	.53	.46	.45	.40	.79	1.1	8.1	8.4	2.4	1.2	1.2
15	.57	.64	.46	.47	.42	1.1	1.0	14	7.4	2.4	1.2	1.2
16	.62	.59	.44	.46	.43	1.1	1.1	13	6.7	2.4	1.2	1.2
17	.58	.56	.45	.40	.41	.87	1.1	11	6.6	2.3	1.2	1.2
18	.55	.51	.47	.42	.41	.91	1.0	9.6	6.7	2.1	1.2	1.3
19	.54	.49	.49	.43	.43	1.1	1.0	8.7	5.2	2.2	1.3	1.5
20	.53	.48	.47	.46	.63	.84	1.0	8.9	4.8	2.1	1.3	1.4
21	.53	.45	.47	.43	.71	1.1	1.0	8.6	4.3	2.0	1.2	1.4
22	.53	.40	.46	.35	.63	1.2	1.1	7.5	3.9	2.2	1.3	1.4
23	.52	.45	.46	.21	.60	.99	1.2	6.0	3.7	2.3	1.3	1.5
24	.52	.47	.51	.26	.70	.98	1.2	5.6	3.8	2.4	1.3	1.4
25	.52	.50	.53	.45	.75	.91	1.2	9.9	3.6	2.1	1.2	1.4
26	.52	.50	.50	.48	.70	.90	1.3	23	3.5	1.9	1.2	1.4
27	.52	.38	.46	.44	.59	.87	1.3	45	6.9	1.8	1.2	1.3
28	.52	.38	.46	.44	.53	.88	1.6	16	11	1.8	1.2	1.3
29	.53	.38	.45	.40	---	.88	1.5	12	6.5	1.7	1.2	1.3
30	.50	.42	.42	.40	---	.86	1.9	11	5.0	1.7	1.2	1.4
31	.49	---	.38	.41	---	.90	---	11	---	1.7	1.2	---
TOTAL	17.66	16.28	14.15	12.74	13.78	25.40	33.64	321.7	275.0	77.9	40.9	38.7
MEAN	.57	.54	.46	.41	.49	.82	1.12	10.4	9.17	2.51	1.32	1.29
MAX	.90	.81	.53	.53	.75	1.2	1.9	45	22	4.3	1.8	1.5
MIN	.49	.38	.38	.21	.32	.43	.90	1.7	3.5	1.7	1.2	1.2
AC-FT	35	32	28	25	27	50	67	638	545	155	81	77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1995, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	.52	.53	.47	.43	.44	.64	1.44	3.92
MAX	.80	.77	.77	.71	.71	.91	2.47	10.4
(WY)	1994	1994	1994	1994	1994	1994	1994	1995
MIN	.32	.33	.29	.27	.32	.43	.66	.89
(WY)	1990	1993	1991	1991	1993	1991	1989	1992

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1988 - 1995
ANNUAL TOTAL	404.62	887.85	---
ANNUAL MEAN	1.11	2.43	1.12
HIGHEST ANNUAL MEAN	---	---	2.43
LOWEST ANNUAL MEAN	---	---	.54
HIGHEST DAILY MEAN	6.5 May 12	45 May 27	45 May 27 1995
LOWEST DAILY MEAN	.38 Nov 27	.21 Jan 23	.12 Dec 7 1990
ANNUAL SEVEN-DAY MINIMUM	.42 Dec 4	.36 Dec 31	.23 Dec 29 1990
INSTANTANEOUS PEAK FLOW	---	123a May 26	123a May 26 1995
INSTANTANEOUS PEAK STAGE	---	3.11b May 27	3.11b May 27 1995
ANNUAL RUNOFF (AC-FT)	803	1760	815
10 PERCENT EXCEEDS	2.4	7.4	2.0
50 PERCENT EXCEEDS	.71	.99	.61
90 PERCENT EXCEEDS	.47	.42	.34

a About.

b Backwater from landslide debris.

06646000 DEER CREEK IN CANYON, NEAR GLENROCK, WY

LOCATION.--Lat 42°42'42", long 106°01'43", in SW¹/₄ NE¹/₄ SE¹/₄ sec.26, T.32 N., R.77 W., Converse County, Hydrologic Unit 10180007, on left bank 500 ft upstream from VR Ditch and 14 mi southwest of Glenrock.

DRAINAGE AREA.--139 mi².

PERIOD OF RECORD.--May 1946 to September 1951, March 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,640 ft above sea level, from topographic map. May 1946 to September 1951, at same site and datum.

REMARKS.--Estimated daily discharges: Nov. 2 to Dec. 9, Dec. 29 to Jan. 7, Jan. 12, 22, 29-31, Feb. 7-16, Feb. 23 to Mar. 1, May 8 to June 5. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 12, 1970, reached a discharge of 14,200 ft³/s at Deer Creek below Millar Wasteway, at Glenrock (sta 06646600), 16.5 mi downstream.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 21	2400	422	5.36	May 27	2200	1410	7.45a
May 11	2100	1660	7.80a	June 3	0330	1480	7.55a
May 15	1930	*2180	*8.45	June 28	0230	556	5.77

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	6.7	3.6	5.6	5.4	19	28	137	950	105	18	7.3
2	5.4	6.4	4.6	5.5	6.7	18	33	151	1100	95	17	7.0
3	8.1	5.7	5.1	5.4	7.1	16	33	272	1300	87	14	7.0
4	12	6.2	6.9	5.5	6.4	14	33	260	1100	91	14	7.3
5	11	6.6	11	5.7	6.6	12	43	227	1000	85	14	7.3
6	13	7.5	7.4	6.2	5.8	12	52	282	789	74	14	6.9
7	19	8.4	6.9	6.5	5.5	11	57	253	620	66	13	6.9
8	14	7.5	6.4	6.7	5.1	10	63	550	574	58	11	8.8
9	11	8.1	6.6	7.4	4.9	11	55	800	553	53	11	12
10	9.8	8.5	6.7	7.3	4.7	13	51	1000	460	51	10	12
11	8.6	9.1	6.4	6.8	4.4	77	45	1200	374	46	10	11
12	8.2	9.0	6.5	6.4	4.6	192	49	1390	348	40	11	10
13	8.0	8.7	6.5	5.5	4.4	88	48	715	367	37	11	9.6
14	7.9	8.0	6.7	5.4	4.7	92	53	700	377	37	11	9.0
15	8.3	8.6	6.7	5.9	5.0	94	57	1170	356	42	10	8.6
16	12	9.0	5.5	7.0	5.2	173	60	1320	323	39	10	8.1
17	12	8.3	5.6	9.1	5.3	143	64	1250	287	33	9.5	8.0
18	11	7.5	6.2	8.2	5.3	100	60	1200	308	31	9.3	8.5
19	10	7.0	6.8	6.6	5.1	193	55	1090	231	29	9.3	14
20	9.5	7.6	6.8	6.6	5.9	80	56	1040	197	33	9.3	15
21	8.4	7.4	6.8	6.4	8.8	99	58	1050	170	33	9.3	16
22	8.0	6.9	6.6	6.0	12	217	59	1100	149	28	9.3	15
23	7.8	6.6	6.4	6.1	16	70	60	850	133	27	9.3	13
24	7.6	6.2	6.4	6.5	20	61	64	680	125	25	9.3	14
25	7.6	6.2	6.7	6.6	26	35	88	590	119	22	9.3	13
26	7.6	6.6	7.0	5.9	35	37	91	540	107	20	9.3	12
27	7.2	5.9	6.9	5.4	32	32	89	1240	97	18	9.1	11
28	7.0	4.4	6.8	5.1	20	30	113	1100	267	15	8.8	11
29	6.8	3.5	6.6	5.0	---	33	108	1000	148	15	8.7	10
30	6.8	3.1	6.4	4.7	---	30	139	950	119	14	8.0	30
31	6.1	---	6.0	5.0	---	29	---	850	---	16	7.3	---
TOTAL	284.8	211.2	201.5	192.0	277.9	2041	1864	24957	13048	1365	334.1	329.3
MEAN	9.19	7.04	6.50	6.19	9.92	65.8	62.1	805	435	44.0	10.8	11.0
MAX	19	9.1	11	9.1	35	217	139	1390	1300	105	18	30
MIN	5.1	3.1	3.6	4.7	4.4	10	28	137	97	14	7.3	6.9
AC-FT	565	419	400	381	551	4050	3700	49500	25880	2710	663	653

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1946	7.33	14.6	1947	3.85	1990
1947	8.50	15.2	1948	6.04	1993
1948	7.19	10.9	1949	3.38	1991
1949	6.54	10.7	1950	3.85	1991
1950	7.99	13.8	1951	3.44	1947
1951	27.4	65.8	1952	9.77	1950
1952	172	352	1953	44.8	1989
1953	252	805	1954	46.5	1989
1954	93.0	435	1955	14.2	1989
1955	14.9	57.4	1956	3.04	1989
1956	4.71	10.8	1957	2.47	1989
1957	5.08	11.0	1958	2.10	1990

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1946 - 1995
ANNUAL TOTAL	14872.6	45105.8	--
ANNUAL MEAN	40.7	124	52.1
HIGHEST ANNUAL MEAN	--	--	124
LOWEST ANNUAL MEAN	--	--	13.9
HIGHEST DAILY MEAN	462	1390	1920
LOWEST DAILY MEAN	2.1	3.1	1.1
ANNUAL SEVEN-DAY MINIMUM	2.2	4.3	1.4
INSTANTANEOUS PEAK FLOW	--	2180	3200
INSTANTANEOUS PEAK STAGE	--	8.45	9.42
ANNUAL RUNOFF (AC-FT)	29500	89470	37750
10 PERCENT EXCEEDS	115	370	155
50 PERCENT EXCEEDS	10	11	8.5
90 PERCENT EXCEEDS	3.6	5.7	3.5

a About.

PLATTE RIVER BASIN

06647500 BOX ELDER CREEK AT BOXELDER, WY

LOCATION.--Lat 42°36'44", long 105°51'29", in NE¹/₄ NE¹/₄ SW¹/₄ sec.32, T.31 N., R.75 W., Converse County, Hydrologic Unit 10180007, on left bank at Hiser Ranch (old Boxelder Post Office), 0.8 mi downstream from Snowshoe Creek, and 17 mi south of Glenrock.

DRAINAGE AREA.--63.0 mi².

PERIOD OF RECORD.--April 1946 to September 1951, October 1961 to September 1967, October 1971 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,710 ft above sea level, from topographic map. Prior to June 7, 1946, non-recording gage, and June 8, 1946, to July 21, 1976, water-stage recorder at site 400 ft downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 28-30, Nov. 1-29, Dec. 1 to Mar. 6, and May 27. Records good except those for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 60 acres, of which about 40 acres are downstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 11	1730	752	4.79	May 28	0100	813	4.90
May 15	2000	853	4.97	June 3	0430	*1010	*5.20

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	1.2	.70	1.1	1.7	2.1	13	47	521	57	8.4	.32
2	.15	1.1	1.0	1.1	1.8	2.2	15	64	584	51	6.2	.30
3	.46	1.0	1.7	1.0	1.8	2.3	14	98	905	46	4.7	.38
4	.41	1.1	1.6	1.0	1.9	2.1	15	101	779	46	4.0	.29
5	.71	1.4	1.5	1.0	1.9	2.3	18	127	754	43	4.2	.24
6	2.1	2.0	1.6	1.1	1.9	2.7	21	157	691	38	3.5	.22
7	2.5	2.2	1.6	1.2	1.8	3.0	23	152	572	34	2.9	.24
8	2.6	1.7	1.4	1.3	1.7	3.2	26	230	511	30	2.0	.30
9	2.2	1.9	1.5	1.5	1.6	3.2	24	254	440	28	1.6	.42
10	1.8	2.0	1.6	1.7	1.4	5.2	22	352	351	26	1.5	.65
11	1.5	2.2	1.6	1.8	1.2	12	23	510	301	24	1.7	.69
12	1.4	2.2	1.7	1.7	1.1	16	22	644	306	22	1.7	.70
13	1.4	1.9	1.8	1.8	1.0	14	23	515	345	20	1.4	.61
14	1.3	1.6	1.7	1.9	1.1	12	26	406	362	21	1.1	.53
15	1.6	1.7	1.5	1.7	1.2	13	25	555	343	23	.98	.43
16	2.4	1.9	1.6	1.6	1.3	16	26	701	310	20	.76	.33
17	2.7	1.7	1.7	1.3	1.4	17	27	662	287	18	.58	.27
18	2.3	1.5	1.9	1.4	1.5	17	25	638	281	16	.53	.36
19	2.1	1.4	1.7	1.5	1.6	19	25	653	207	16	.58	.91
20	2.1	1.3	1.6	1.5	1.8	16	26	704	173	17	.56	1.9
21	1.9	1.2	1.7	1.3	2.0	18	26	653	145	15	.55	2.3
22	1.9	1.0	1.8	1.1	2.3	24	25	662	124	13	.55	2.3
23	1.8	1.1	1.9	1.2	2.6	20	27	523	106	13	.53	2.2
24	1.8	1.0	2.1	1.3	2.8	20	28	432	93	11	.68	2.3
25	1.6	1.1	2.3	1.5	3.2	18	31	383	81	9.4	.66	2.0
26	1.4	1.2	2.2	1.7	3.0	17	31	392	69	7.7	.70	1.7
27	1.3	1.0	1.9	1.6	2.7	21	31	500	65	6.0	.84	1.4
28	1.2	.80	1.7	1.5	2.3	17	38	650	120	5.2	.90	2.0
29	1.1	.62	1.5	1.4	---	17	40	534	78	4.5	.61	2.3
30	1.2	.57	1.4	1.5	---	18	46	486	63	4.1	.43	5.5
31	1.3	---	1.2	1.6	---	18	---	488	---	7.0	.38	---
TOTAL	48.37	42.59	50.70	43.9	51.6	388.3	762	13273	9967	691.9	55.72	34.09
MEAN	1.56	1.42	1.64	1.42	1.84	12.5	25.4	428	332	22.3	1.80	1.14
MAX	2.7	2.2	2.3	1.9	3.2	24	46	704	905	57	8.4	5.5
MIN	.14	.57	.70	1.0	1.0	2.1	13	47	63	4.1	.38	.22
AC-FT	96	84	101	87	102	770	1510	26330	19770	1370	111	68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

	MEAN	2.10	2.76	2.30	2.13	2.56	7.75	74.1	239	81.6	9.33	1.48	.82
MAX	12.5	17.6	9.94	7.52	9.25	31.1	220	562	332	48.8	4.95	4.11	
(WY)	1983	1983	1983	1983	1962	1983	1962	1973	1995	1947	1984	1973	
MIN	.24	.60	.46	.66	.093	1.47	9.33	39.5	8.28	.21	.021	.058	
(WY)	1965	1964	1964	1981	1966	1981	1981	1989	1985	1989	1989	1981	

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1946 - 1995
ANNUAL TOTAL	7885.82	25409.17	--
ANNUAL MEAN	21.6	69.6	35.6
HIGHEST ANNUAL MEAN	--	--	85.8
LOWEST ANNUAL MEAN	--	--	6.95
HIGHEST DAILY MEAN	291	905	2460
LOWEST DAILY MEAN	.08	.14	.00
ANNUAL SEVEN-DAY MINIMUM	.10	.28	.00
INSTANTANEOUS PEAK FLOW	--	1010	4530
INSTANTANEOUS PEAK STAGE	--	5.20	8.58a
ANNUAL RUNOFF (AC-FT)	15640	50400	25810
10 PERCENT EXCEEDS	58	308	106
50 PERCENT EXCEEDS	1.9	2.1	2.8
90 PERCENT EXCEEDS	.13	.70	.40

a Site and datum then in use.

LOCATION.--Lat 42°39'10", long 105°09'32", in NE¹/₄ SE¹/₄ SW¹/₄ sec.17, T.31 N., R.69 W., Converse County, Hydrologic Unit 10180008, on right bank 0.5 mi downstream from bridge on U.S. Highway 87, 0.1 mi downstream from Shawnee Creek, and 1.5 mi east of Orin. Prior to Mar. 6, 1994, at site 0.3 mi upstream.

DRAINAGE AREA.--15,025 mi², of which 1,203 mi² is probably noncontributing.

PERIOD OF RECORD.--January, April to November 1895, April to October 1896, January 1897 to December 1898, April to November 1899, April to September 1917, April to September 1918, May to September 1924, April 1958 to current year. Monthly discharge only for some periods, published in WSP 1310. Published as "at Orin Junction" 1895, 1897-99 and as "at McKinley" 1917-18.

REVISED RECORDS.--WSP 1310: 1896, 1899. WDR WY-76-1: Drainage area.

GAGE.--Water-stage recorder, and concrete weir since Mar. 6, 1994. Datum of gage is 4,656.85 ft above sea level. Jan. 1, 1895, to Nov. 30, 1899, and May 1 to Sept. 30, 1924, nonrecording gage at railroad bridge just upstream from U.S. Highway 87 at different datum. Apr. 1, 1917, to Sept. 30, 1918, nonrecording gage at site 1.9 mi downstream at different datum. Apr. 1958 to Mar. 5, 1994, at site 0.3 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Dec. 16. Records good. Major regulation began after completion of Pathfinder Reservoir in April 1909. Natural flow of stream affected by storage reservoirs, power development, diversions for irrigation, and return flow from irrigated areas. Satellite telemeter at station.

COOPERATION.--Seventeen discharge measurements provided by the Bureau of Reclamation and four provided by the Wyoming State Engineer's office.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	636	703	567	473	784	860	682	752	4280	1490	884	1550
2	649	699	891	299	886	614	670	749	4040	1370	953	1590
3	699	766	795	230	848	469	671	738	4170	1210	904	1600
4	764	806	753	255	806	688	670	930	5200	1160	830	1640
5	858	766	694	710	833	864	656	1150	5160	1120	835	1610
6	912	771	655	694	800	689	651	1210	4510	1070	852	1600
7	950	810	659	971	761	746	669	1310	3980	1020	943	1600
8	840	858	686	807	722	751	676	3220	3990	989	1100	1610
9	790	906	641	711	715	702	667	6580	4700	881	1140	1680
10	761	875	457	798	702	674	656	7820	5780	871	1160	1690
11	751	818	324	867	676	656	683	7450	4960	815	1200	1690
12	745	818	438	789	602	667	662	6340	4210	780	1210	1680
13	740	826	502	686	341	837	649	6410	3630	764	1190	1680
14	720	844	587	665	220	1030	625	5580	3130	862	1160	1690
15	725	854	711	721	238	852	613	5220	2860	912	1160	1680
16	783	829	625	770	474	762	709	5740	2640	966	1170	1560
17	929	823	572	728	570	805	719	5770	2450	1040	1170	1430
18	962	821	620	609	814	1030	705	5140	2480	1030	1190	1440
19	985	812	732	523	970	963	666	4820	2440	1030	1240	1530
20	949	811	769	487	996	951	664	5110	2140	1110	1420	1440
21	885	863	700	601	1020	904	661	4870	2000	1010	1460	1250
22	835	835	691	556	1180	824	660	4340	1850	1010	1480	1000
23	728	815	698	452	1280	864	656	4490	1690	983	1500	882
24	709	582	653	472	1120	827	648	4330	1590	978	1540	849
25	709	648	731	478	1030	779	668	4100	1560	942	1680	807
26	696	707	699	539	1060	723	697	4050	1490	901	1730	780
27	701	670	672	755	1000	701	677	5450	1420	863	1490	759
28	684	581	675	863	978	696	700	8020	1500	845	1490	748
29	667	541	654	809	---	703	732	6890	2100	822	1480	737
30	685	434	655	738	---	704	773	5520	1820	831	1480	865
31	705	---	605	689	---	695	---	4850	---	900	1520	---
TOTAL	24152	22892	20111	19745	22426	24030	20235	138949	93770	30575	38561	40667
MEAN	779	763	649	637	801	775	674	4482	3126	986	1244	1356
MAX	985	906	891	971	1280	1030	773	8020	5780	1490	1730	1690
MIN	636	434	324	230	220	469	613	738	1420	764	830	737
AC-FT	47910	45410	39890	39160	44480	47660	40140	275600	186000	60650	76490	80660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 1995, BY WATER YEAR (WY)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959-1960, BY WATER YEAR (WY)												
MEAN	1205	1096	911	917	1009	1155	1832	3325	3207	2634	2313	1651
MAX	1708	2191	1223	1171	1472	2911	4578	9274	14420	9963	5258	4150
(WY)	1986	1987	1974	1986	1980	1984	1974	1973	1917	1917	1924	1917
MIN	571	639	544	600	594	618	670	839	958	982	583	399
(WY)	1961	1959	1991	1992	1993	1981	1981	1992	1990	1967	1898	1898

SUMMARY STATISTICS		FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1895 - 1995	
ANNUAL TOTAL	528031			496113		--	
ANNUAL MEAN	1447			1359		1621	
HIGHEST ANNUAL MEAN	--			--		3110	1984
LOWEST ANNUAL MEAN	--			--		935	1961
HIGHEST DAILY MEAN	3630	Aug 25		8020	May 28	20300	Jun 27 1917
LOWEST DAILY MEAN	324	Dec 11		220	Feb 14	140	Dec 21 1990
ANNUAL SEVEN-DAY MINIMUM	511	Feb 7		446	Feb 11	324	Sep 25 1966
INSTANTANEOUS PEAK FLOW	--			8970	May 10	23800	May 15 1965
INSTANTANEOUS PEAK STAGE	--			6.95	May 10	10.45a	Jun 12 1970
ANNUAL RUNOFF (AC-FT)	1047000			984000		1175000	
10 PERCENT EXCEEDS	3320			3380		3770	
50 PERCENT EXCEEDS	825			833		1290	
90 PERCENT EXCEEDS	618			632		699	

a Site and datum then in use.

PLATTE RIVER BASIN

06652700 GLEND0 RESERVOIR NEAR GLEND0, WY

LOCATION.--Lat 42°28'21", long 104°57'28", in SW¹/₄ NE¹/₄ sec.24, T.29 N., R.68 W., Platte County, Hydrologic Unit 10180008, on right bank in gate shaft house on North Platte River, 0.5 mi southwest of Glendo Dam, and 5.0 mi southeast of Glendo.

DRAINAGE AREA.--15,545 mi², of which 1,215 mi² is probably noncontributing.

PERIOD OF RECORD.--October 1957 to current year.

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

GAGE.--Water-stage recorder for elevations above 4,543.50 ft. Datum of gage is 4,543.50 ft above sea level (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by rock-fill dam completed in October 1957. Storage began Oct. 17, 1957. Capacity, 789,400 acre-ft at elevation 4,653.00 ft, spillway crest. Dead storage, 11,030 acre-ft. Figures given herein represent total contents. Water is used for irrigation in North Platte River basin, and for development of power.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 758,800 acre-ft, May 28, 1973, elevation, 4,650.94 ft; minimum daily (since appreciable storage was attained), 15,140 acre-ft, Sept. 28, 1966, elevation, 4,548.10 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 606,000 acre-ft, June 13-15, maximum elevation, 4,641.67 ft, June 14-15; minimum daily contents, 81,400 acre-ft, Sept. 18, elevation, 4,575.43 ft.

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

4,570	63,100	4,600	202,000	4,630	459,000
4,580	98,800	4,610	274,000	4,640	583,000
4,590	144,000	4,620	385,000	4,650	737,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99200	145000	191000	232000	267000	308000	350000	372000	566000	577000	383000	153000
2	99100	147000	193000	232000	269000	309000	351000	372000	566000	576000	372000	147000
3	98800	149000	195000	232000	271000	310000	352000	371000	566000	574000	364000	140000
4	99300	151000	197000	233000	272000	311000	354000	371000	568000	571000	357000	134000
5	102000	152000	198000	233000	274000	314000	355000	371000	570000	570000	350000	128000
6	105000	154000	199000	234000	275000	314000	356000	371000	571000	569000	343000	122000
7	106000	155000	201000	235000	276000	316000	357000	373000	571000	566000	336000	116000
8	108000	157000	202000	237000	278000	317000	358000	378000	574000	562000	328000	110000
9	110000	159000	203000	238000	279000	319000	359000	390000	581000	555000	319000	106000
10	112000	161000	204000	239000	280000	320000	361000	405000	589000	551000	311000	101000
11	113000	163000	204000	241000	281000	321000	361000	420000	596000	550000	303000	97400
12	115000	165000	205000	243000	282000	322000	362000	432000	602000	549000	295000	95300
13	116000	166000	206000	244000	283000	324000	363000	443000	606000	547000	288000	93900
14	118000	167000	207000	245000	283000	325000	365000	454000	606000	541000	280000	92200
15	119000	169000	209000	247000	283000	327000	366000	464000	606000	534000	273000	89000
16	121000	171000	210000	248000	283000	329000	367000	474000	604000	526000	265000	85300
17	123000	172000	211000	250000	285000	330000	368000	485000	602000	518000	258000	81800
18	125000	174000	212000	251000	286000	331000	369000	494000	601000	511000	249000	81400
19	127000	176000	214000	252000	288000	334000	371000	503000	599000	505000	241000	81500
20	129000	177000	215000	253000	290000	335000	372000	513000	597000	498000	234000	82700
21	130000	179000	217000	254000	292000	337000	373000	521000	593000	491000	226000	83300
22	132000	180000	218000	255000	294000	338000	374000	529000	591000	484000	219000	83600
23	134000	183000	220000	255000	297000	340000	375000	536000	589000	477000	212000	83600
24	134000	185000	221000	256000	299000	341000	376000	540000	586000	469000	205000	83100
25	136000	186000	222000	256000	301000	342000	377000	543000	584000	462000	199000	83100
26	137000	187000	224000	257000	303000	343000	375000	544000	582000	454000	193000	83000
27	139000	188000	226000	259000	305000	345000	374000	547000	581000	447000	186000	82600
28	140000	189000	227000	261000	307000	346000	374000	554000	581000	435000	180000	82000
29	141000	190000	228000	262000	---	347000	373000	560000	580000	422000	173000	82500
30	143000	191000	230000	263000	---	348000	373000	564000	580000	408000	166000	82800
31	144000	---	231000	265000	---	349000	---	566000	---	395000	159000	---
MAX	144000	191000	231000	265000	307000	349000	377000	566000	606000	577000	383000	153000
MIN	98800	145000	191000	232000	267000	308000	350000	371000	566000	395000	159000	81400
(#)	4,589.98	4,598.16	4,604.22	4,608.92	4,614.09	4,618.97	4,621.58	4,638.76	4,639.80	4,623.87	4,592.85	4,575.80
(*)	+44,000	+47,000	+40,000	+34,000	+42,000	+42,000	+24,000	+193,000	+14,000	-185,000	-236,000	-76,200

CAL YR 1994 MAX 422000 MIN 98800 (*) -27,000

WTR YR 1995 MAX 606000 MIN 81400 (*) -16,800

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

195

LOCATION.--Lat 42°27'25", long 104°56'50", in SW1/4 SW1/4 NW1/4 sec.30, T.29 N., R.67 W., Platte County, Hydrologic Unit 10180008, on right bank opposite Sand Draw, 1.3 mi upstream from Horseshoe Creek, 3.1 mi downstream from Glendo Dam, and 5.2 mi southeast of Glendo.

PERIOD OF RECORD.--October 1957 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is

REMARKS.--Estimated daily discharges: Dec. 8-12, 19-23, Dec. 31 to Jan. 11, Jan. 17-20, 22-26, and Feb. 10-17.

Records good except those less than 500 ft³/s, which are fair, and those for estimated daily discharges, which are poor. Flow completely regulated by Glendo Reservoir since Oct. 17, 1957. (See sta 06652700.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Twenty-two discharge measurements provided by the Bureau of Reclamation.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	975	30	30	23	29	28	40	1040	3980	2380	7660	4820
2	1080	30	31	23	29	28	40	1050	3960	2400	6460	4750
3	389	30	31	23	28	28	40	1020	3940	2400	4810	4730
4	224	30	31	24	28	29	40	1020	3950	1980	4540	4670
5	107	30	31	25	28	29	40	1030	3950	1650	4370	4630
6	32	30	31	26	28	30	40	994	3950	1640	4400	4570
7	30	31	31	26	29	29	40	1010	3650	2290	4390	4520
8	28	31	30	27	29	29	40	900	2380	3430	4790	4310
9	29	31	28	28	29	28	40	217	1390	3950	5440	4070
10	29	31	30	29	28	29	39	45	1380	2680	5480	4030
11	29	31	31	30	27	29	40	44	1370	1430	5370	3690
12	28	32	32	29	25	29	39	43	1360	1500	4940	2640
13	27	31	32	29	25	29	39	43	1650	1840	4910	2740
14	27	32	31	30	25	29	39	42	2180	3710	4970	2840
15	29	31	29	29	26	30	39	42	2650	4800	4960	3270
16	29	30	29	29	28	30	40	44	3060	4970	4970	3290
17	28	31	28	27	30	29	39	43	3130	4650	5090	3080
18	27	31	28	25	29	29	39	41	3180	4680	5140	2020
19	27	30	26	25	28	30	38	40	3210	4490	5110	1570
20	27	30	25	26	29	33	39	43	3200	4670	5120	1080
21	27	31	26	26	29	36	40	42	3210	4540	5100	1040
22	27	31	25	24	29	37	38	179	3210	4560	5110	1030
23	27	31	25	24	29	40	38	930	2810	4640	5060	1020
24	31	31	26	25	29	42	289	1620	2480	4680	5010	1010
25	31	31	26	26	29	42	513	2730	2500	4820	5040	997
26	29	31	26	28	29	41	940	3440	2490	4740	5130	988
27	28	31	26	30	29	41	1040	3570	2250	4670	4990	1010
28	28	31	27	30	28	40	1030	3520	1950	6560	4870	1030
29	29	30	27	29	---	40	1030	3480	1930	7770	4880	834
30	29	30	26	29	---	40	1040	3500	2170	7720	4880	833
31	29	---	25	28	---	40	---	3770	---	7690	4780	---
TOTAL	3516	921	880	832	788	1023	6788	35532	82520	123930	157770	81112
MEAN	113	30.7	28.4	26.8	28.1	33.0	226	1146	2751	3998	5089	2704
MAX	1080	32	32	30	30	42	1040	3770	3980	7770	7660	4820
MIN	27	30	25	23	25	28	38	40	1360	1430	4370	833
AC-FT	6970	1830	1750	1650	1560	2030	13460	70480	163700	245800	312900	160900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)												
MEAN	71.5	30.7	15.3	13.1	110	481	1114	2125	2674	4848	4957	2559
MAX	951	857	324	173	1054	3837	3868	4688	8916	8681	8923	6027
(WY)	1987	1987	1959	1963	1984	1974	1974	1984	1973	1983	1983	1983
MIN	1.51	1.09	1.00	1.30	1.33	1.58	203	15.4	66.1	3104	3871	906
(WY)	1992	1991	1991	1992	1990	1990	1960	1990	1962	1962	1977	1961

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1958 - 1995	
ANNUAL TOTAL	542518		495612		--	
ANNUAL MEAN	1486		1358		1594	
HIGHEST ANNUAL MEAN	--		--		3126	1984
LOWEST ANNUAL MEAN	--		--		920	1961
HIGHEST DAILY MEAN	7460	Jul 25	7770	Jul 29	10300	Jun 30 1984
LOWEST DAILY MEAN	25	Dec 20	23	Jan 1-3	.41	Oct 17 1977
ANNUAL SEVEN-DAY MINIMUM	26	Dec 19	24	Dec 30	.64	Dec 20 1990
INSTANTANEOUS PEAK FLOW	--		7800	Aug 2	10300	Jun 29 1984
INSTANTANEOUS PEAK STAGE	--		10.10	Aug 2	11.16	Jun 29 1984
ANNUAL RUNOFF (AC-FT)	1076000		983000		1155000	
10 PERCENT EXCEEDS	4710		4740		4900	
50 PERCENT EXCEEDS	34		40		209	
90 PERCENT EXCEEDS	28		27		2.0	

PLATTE RIVER BASIN

06653300 HORSESHOE CREEK NEAR CASSA, WY

LOCATION.--Lat 42°27'57", long 105°04'22", SE¹/₄ NW¹/₄ SE¹/₄ sec.24, T.29 N., R.69 W., Platte County, Hydrologic Unit 10180008, on right bank on downstream side of bridge on Horseshoe Creek Road, 3.3 mi southwest of Glendo, and 3.5 mi upstream from I-25.

DRAINAGE AREA.--195 mi².

PERIOD OF RECORD.--October 1961 to September 1968, August 1988 to current year. Low-flow records at current site may not be equivalent to site used prior to Oct. 1, 1968, because of undetermined channel-flow loss or gain between sites.

REVISED RECORDS.--WDR WY-88-1: Drainage area. WDR WY-91-1: 1990 (M).

GAGE.--Water-stage recorder. Elevation of gage is 4,700 ft above sea level, from topographic map. October 1961 to September 1968 at site 2.2 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by diversions for irrigation and return flow from irrigated areas.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	3.9	5.0	5.9	6.8	7.2	2.9	45	556	131	32	4.9
2	2.4	4.0	4.7	6.4	6.1	6.7	3.2	44	483	130	27	5.1
3	3.1	4.8	4.7	6.0	5.8	6.6	3.2	43	725	118	24	4.4
4	3.5	4.2	4.7	5.7	5.8	6.3	3.2	51	622	111	23	4.3
5	3.8	3.9	4.8	6.3	5.8	6.4	5.2	42	605	107	23	4.2
6	5.2	3.9	5.0	6.6	5.3	6.4	9.7	47	522	97	22	3.6
7	3.7	3.9	5.3	6.0	5.3	6.1	12	50	479	86	21	4.1
8	3.5	3.9	5.4	6.1	5.3	5.8	12	404	1310	78	19	5.1
9	3.0	3.9	5.2	6.8	5.2	5.6	13	858	1110	69	17	6.2
10	3.6	3.9	5.1	5.9	5.1	5.2	13	821	893	71	17	8.2
11	4.1	3.9	5.1	4.8	4.7	4.9	14	526	690	62	12	7.7
12	4.3	3.9	5.2	4.4	4.5	4.8	14	464	568	59	9.1	6.8
13	4.3	3.9	5.3	4.4	5.4	3.5	14	437	484	54	7.6	5.8
14	4.2	3.9	4.8	4.3	5.2	3.3	14	370	431	54	6.6	5.0
15	3.9	3.9	4.9	4.3	5.4	3.4	15	310	374	55	6.4	4.7
16	3.9	3.9	4.9	4.3	5.4	2.0	17	312	336	52	6.3	4.3
17	3.9	3.9	4.8	5.2	5.5	1.8	18	389	298	49	5.8	4.3
18	3.9	4.1	4.6	5.2	5.5	1.8	18	366	364	55	5.3	4.6
19	3.9	4.1	5.4	5.3	5.3	1.7	18	393	267	57	5.6	5.7
20	3.9	4.6	5.3	5.3	5.2	1.8	19	580	230	48	5.7	9.7
21	3.9	4.7	5.1	5.3	4.8	1.7	19	518	206	46	5.8	9.9
22	3.9	4.7	5.4	4.6	5.4	1.7	18	439	187	42	5.8	8.2
23	3.9	4.7	5.6	4.0	6.1	1.9	18	435	169	39	6.2	8.0
24	3.9	5.1	5.3	4.2	6.8	1.8	19	429	157	37	6.4	7.5
25	3.9	5.2	5.3	4.5	6.1	1.9	21	490	149	30	5.7	7.5
26	3.9	5.2	5.3	3.9	6.2	2.0	25	558	136	26	5.6	7.5
27	3.9	5.1	5.8	4.1	7.0	1.9	28	1290	128	22	5.7	7.5
28	4.1	5.0	5.8	4.3	7.5	2.0	30	1210	188	21	5.8	7.1
29	3.9	5.4	5.8	4.3	---	2.0	39	908	200	21	5.8	7.1
30	3.9	5.3	5.8	4.6	---	2.1	44	762	151	20	4.8	8.7
31	3.9	---	6.2	6.0	---	2.4	---	642	---	26	4.7	---
TOTAL	117.1	130.8	161.6	159.0	158.5	112.7	499.4	14233	13018	1873	357.7	187.7
MEAN	3.78	4.36	5.21	5.13	5.66	3.64	16.6	459	434	60.4	11.5	6.26
MAX	5.2	5.4	6.2	6.8	7.5	7.2	44	1290	1310	131	32	9.9
MIN	1.9	3.9	4.6	3.9	4.5	1.7	2.9	42	128	20	4.7	3.6
AC-FT	232	259	321	315	314	224	991	28230	25820	3720	709	372

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)												
MEAN	5.59	6.28	5.68	5.06	5.60	9.84	44.4	146	145	27.5	8.82	5.00
MAX	25.9	17.0	11.3	10.5	9.40	21.7	131	459	434	101	21.4	14.3
(WY)	1966	1966	1992	1968	1968	1993	1968	1995	1995	1967	1967	1965
MIN	.79	.81	.50	.80	2.06	2.51	10.6	16.7	11.1	1.91	.78	.063
(WY)	1990	1990	1964	1990	1990	1964	1989	1992	1989	1989	1966	1966

SUMMARY STATISTICS												
				FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1962 - 1995
ANNUAL TOTAL				4358.8				31008.5				--
ANNUAL MEAN				11.9				85.0				34.6
HIGHEST ANNUAL MEAN				--				--				85.0
LOWEST ANNUAL MEAN				--				--				5.51
HIGHEST DAILY MEAN				58				1310				2790
LOWEST DAILY MEAN				1.1				1.7				.00
ANNUAL SEVEN-DAY MINIMUM				1.1				1.8				.00
INSTANTANEOUS PEAK FLOW				--				2040				7850a
INSTANTANEOUS PEAK STAGE				--				7.59				8.42b
ANNUAL RUNOFF (AC-FT)				8650				61510				25040
10 PERCENT EXCEEDS				26				368				68
50 PERCENT EXCEEDS				8.1				5.8				8.2
90 PERCENT EXCEEDS				3.1				3.9				1.6

a From rating curve extended above 1,190 ft³/s on basis of slope-conveyance study.

b Site and datum then in use.

06653500 HORSESHOE CREEK NEAR GLENDO, WY

LOCATION.--Lat 42°27'09", long 104°58'11", in SE¹/₄ NE¹/₄ SE¹/₄ sec.26, T.29 N., R.68 W., Platte County, Hydrologic Unit 10180008, on left bank 0.6 mi upstream from mouth and 4.8 mi southeast of Glendo.

DRAINAGE AREA.--211 mi².

PERIOD OF RECORD.--April 1916 to September 1918, April 1921 to September 1924, May 1928 to November 1932, April to September 1933, April 1935 to September 1970, and August 1988 to current year. Monthly discharge only for some periods, published in WSP 1310. Records for April to September 1919, published in WSP 469 and 506, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1730: Drainage area. WDR WY-70-1: 1965 (M).

GAGE.--Water-stage recorder. Elevation of gage is 4,500 ft above sea level from topographic map. Prior to June 9, 1935, non-recording gages at sites about 2 mi upstream at different datums. June 9, 1935 to September 1970 at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 20, 21, 23, Dec. 31 to Jan. 7, Jan. 18, 21-25, and Feb. 11-16. Records fair except those for estimated daily discharges, which are poor. Diversions for irrigation of about 7,600 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.8	2.6	2.3	4.9	5.3	4.1	2.4	479	144	32	3.4
2	2.6	1.8	2.5	2.2	4.9	6.0	4.3	2.1	408	140	30	3.6
3	2.8	2.1	2.6	2.2	4.8	5.7	4.0	2.6	597	136	26	4.1
4	3.2	2.1	2.6	2.4	4.5	6.0	4.0	2.5	528	130	23	4.3
5	3.0	2.2	2.6	2.6	4.5	6.2	3.9	2.5	480	127	22	4.4
6	3.1	2.2	2.6	3.2	4.5	6.3	4.0	2.7	380	120	21	5.3
7	3.1	2.2	2.7	3.7	4.7	6.0	3.9	4.3	322	113	20	5.6
8	2.2	2.6	2.9	4.0	4.9	6.0	2.1	291	1080	105	18	6.3
9	1.9	2.6	2.8	4.3	5.2	5.9	1.8	863	1040	98	16	6.3
10	2.0	3.0	2.8	4.5	4.6	5.6	1.8	921	824	97	14	5.9
11	2.1	3.0	2.9	3.8	4.2	5.7	1.9	551	585	93	13	6.0
12	2.0	2.9	2.9	3.3	3.9	5.9	1.6	461	475	84	10	5.6
13	2.1	2.9	2.7	3.3	3.9	5.6	1.7	422	390	77	8.2	5.1
14	2.1	2.7	2.6	3.3	4.0	5.2	1.8	348	326	74	7.1	4.9
15	2.3	2.6	2.4	3.5	4.3	5.2	1.8	276	270	74	6.5	4.7
16	2.5	2.7	2.5	3.4	4.5	5.2	1.9	253	244	70	5.9	4.6
17	2.6	2.4	2.4	3.6	4.7	5.1	2.0	320	221	65	5.6	4.4
18	2.3	2.4	2.4	3.3	5.0	5.3	2.0	297	255	68	5.5	4.2
19	1.9	2.4	2.7	3.6	5.0	5.1	2.0	297	221	81	4.9	4.6
20	2.0	2.6	2.7	3.3	4.9	4.9	2.1	455	01	66	4.8	5.4
21	2.0	2.6	2.7	3.2	4.9	4.5	2.3	428	184	61	4.9	4.4
22	2.0	2.6	2.6	3.1	5.2	4.4	2.2	339	176	57	4.6	3.6
23	2.0	2.7	2.7	3.7	5.2	4.3	2.2	329	168	52	4.2	3.0
24	2.2	2.6	2.6	3.5	4.9	4.4	2.2	321	159	48	4.1	3.0
25	2.0	2.6	2.4	3.7	4.9	4.4	2.4	378	151	41	4.0	3.0
26	2.0	2.6	2.4	3.9	4.9	4.3	2.5	441	146	34	3.9	3.0
27	2.0	2.6	2.4	4.0	5.0	4.3	2.4	1060	145	30	3.7	4.2
28	1.8	2.6	2.4	4.2	5.2	4.2	2.5	1140	174	27	3.6	3.2
29	1.8	2.8	2.6	4.2	---	4.3	1.9	891	181	24	3.3	2.6
30	2.0	2.8	2.7	4.2	---	4.5	2.6	692	158	23	3.2	3.0
31	1.9	---	2.4	4.2	---	4.3	---	560	---	29	3.2	---
TOTAL	69.8	75.7	80.8	107.7	132.1	160.1	75.9	12353.1	10968	2388	336.2	131.7
MEAN	2.25	2.52	2.61	3.47	4.72	5.16	2.53	398	366	77.0	10.8	4.39
MAX	3.2	3.0	2.9	4.5	5.2	6.3	4.3	1140	1080	144	32	6.3
MIN	1.8	1.8	2.4	2.2	3.9	4.2	1.6	2.1	145	23	3.2	2.6
AC-FT	138	150	160	214	262	318	151	24500	21760	4740	667	261

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1916	5.69	29.7	1966	1.00	1922
1917	6.39	20.5	1966	1.00	1922
1918	6.14	17.0	1966	1.23	1990
1919	5.69	16.3	1966	1.15	1990
1920	6.05	15.0	1923	.98	1990
1921	9.49	25.3	1993	1.48	1990
1922	53.9	185	1924	.020	1935
1923	130	455	1917	1.56	1954
1924	91.6	405	1965	1.10	1940
1925	17.7	104	1967	.52	1918
1926	5.53	23.3	1967	.000	1918
1927	4.67	16.6	1938	.000	1918

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1916 - 1995
ANNUAL TOTAL	2868.7	26879.1	--
ANNUAL MEAN	7.86	73.6	28.8
HIGHEST ANNUAL MEAN	--	--	84.2
LOWEST ANNUAL MEAN	--	--	2.11
HIGHEST DAILY MEAN	37	1140	3000
LOWEST DAILY MEAN	1.8	1.6	.00
ANNUAL SEVEN-DAY MINIMUM	1.9	1.8	.00
INSTANTANEOUS PEAK FLOW	--	1580	11900a
INSTANTANEOUS PEAK STAGE	--	7.36	8.80b
ANNUAL RUNOFF (AC-FT)	5690	53310	20840
10 PERCENT EXCEEDS	16	282	74
50 PERCENT EXCEEDS	4.9	4.2	5.7
90 PERCENT EXCEEDS	2.2	2.1	1.8

a From rating extended above 750 ft³/s on basis of slope-area measurement of peak flow.

b From floodmarks, present site and datum.

PLATTE RIVER BASIN

06655500 GUERNSEY RESERVOIR NEAR GUERNSEY, WY

LOCATION.--Lat 42°17'23", long 104°45'48", in NE1/4 NW1/4 sec.27, T.27 N., R.66 W., Platte County, Hydrologic Unit 10180008, on gate structure at right end of dam on North Platte River and 1.2 mi northwest of Guernsey.

DRAINAGE AREA.--16,224 mi², of which 1,216 mi² is probably noncontributing.

PERIOD OF RECORD.--January 1928 to current year. Prior to October 1950 monthend figures only, published in WSP 1310.

REVISED RECORDS.--WDR WY-76-1: Drainage area. WDR WY-82-1: 1981 (capacity).

GAGE.--Water-stage recorder. Datum of gage is 4,370.00 ft above sea level (levels by Bureau of Reclamation). Prior to Sept. 20, 1966, nonrecording gages at same datum.

REMARKS.--Reservoir is formed by rock-fill dam completed in July 1927. Capacity, 45,600 acre-ft, at elevation 4,420 ft, top of spillway gate. Dead storage is negligible. Figures given herein represent total contents. Usable contents published prior to October 1956. Water is used for irrigation in eastern Wyoming and western Nebraska and for development of power.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 73,240 acre-ft, Oct. 17, 1929, elevation, 4,420.95 ft, no storage Oct. 11, 1982, Oct. 6, 7, Oct. 10 to Dec. 4, 1983, Oct. 19, Oct. 25, 1984 to Jan. 14, 1985, Dec. 6-7, 1986; minimum daily elevation, 4,361.50 ft, Oct. 5, 6, 1958.

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 42,100 acre-ft, May 28, elevation, 4,418.48 ft; minimum daily contents, 797 acre-ft, July 24, elevation, 4,382.96 ft.

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

4,380	375	4,395	5,360	4,410	24,300
4,385	1,200	4,400	9,690	4,415	34,300
4,390	2,710	4,405	16,000	4,420	45,600

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2880	5550	8530	11200	13700	15800	18000	19200	38500	37000	29200	35400
2	2870	5660	8630	11200	13800	15900	18100	19600	39300	36400	34100	35200
3	2730	5770	8700	11300	13900	16000	18200	19800	40600	36000	34300	35000
4	1780	5900	8790	11400	13900	16100	18300	20000	41100	35300	34200	34700
5	1830	6010	8870	11400	14000	16100	18300	20300	40300	33800	33400	34600
6	2300	6110	8960	11400	14100	16200	18400	20500	39600	32000	32600	34400
7	2520	6210	9050	11500	14200	16200	18500	20900	39600	30200	31800	34200
8	2700	6330	9150	11500	14200	16300	18600	21700	40500	29200	31300	34200
9	2840	6440	9210	11500	14300	16400	18700	22400	40300	28800	32300	34000
10	2980	6560	9300	11900	14400	16500	18800	24000	40400	26700	33400	33600
11	3110	6670	9380	12000	14400	16500	18900	25800	39700	20500	34400	33400
12	3240	6790	9460	12100	14500	16600	18900	27200	39300	14000	34600	31400
13	3360	6890	9560	12100	14600	16700	19000	28700	38700	7660	34800	29200
14	3480	6980	9640	12200	14700	16800	19100	29700	38700	2600	34700	27000
15	3690	7060	9720	12300	14700	16800	19100	30600	39000	2100	34600	26100
16	3860	7180	9810	12400	14800	16900	19200	31400	39300	2100	34500	25700
17	4000	7320	9880	12500	14900	17000	19400	32300	39600	2130	34600	25400
18	4120	7330	9950	12600	15000	17100	19500	33300	39500	2140	34800	23300
19	4220	7440	10100	12700	15100	17200	19500	34400	39200	2130	34900	20600
20	4330	7550	10200	12700	15200	17200	19600	35600	38800	1890	35100	18100
21	4440	7650	10300	12800	15300	17300	19700	37100	38700	1670	35300	16000
22	4540	7740	10400	12900	15300	17400	19800	38300	39000	1210	35500	14800
23	4640	7830	10400	12900	15400	17400	19900	40100	39000	1000	35700	14000
24	4730	7920	10500	13000	15400	17500	19400	40100	39000	797	35900	13500
25	4850	8000	10600	13100	15500	17600	18600	40300	39000	878	35900	13100
26	4950	8110	10700	13200	15600	17600	18100	40800	39000	1020	36200	12800
27	5080	8200	10800	13300	15700	17700	18300	41700	39300	856	36400	11700
28	5180	8230	10900	13400	15700	17700	18500	42100	39000	3050	36300	10800
29	5250	8340	10900	13400	---	17800	18700	40700	38200	10800	36200	10300
30	5360	8440	11000	13500	---	17900	19100	39000	37600	17100	36000	9550
31	5470	---	11100	13600	---	17900	---	38200	---	23100	35700	---
MAX	5470	8440	11100	13600	15700	17900	19900	42100	41100	37000	36400	35400
MIN	1780	5550	8530	11200	13700	15800	18000	19200	37600	797	29200	9550
(#)	5,395.16	4,398.76	4,401.28	4,403.27	4,404.82	4,406.27	4,407.00	4,717.12	4,716.52	4,409.34	4,415.63	4,399.87
(*)	+2,420	+2,970	+2,660	+2,500	+2,100	+2,200	+1,200	+19,100	-6,000	-14,500	+12,600	-26,150

CAL YR 1994 MAX 36000 MIN 585 (*) +400

WTR YR 1995 MAX 42100 MIN 797 (*) +6,500

(#) Elevation, in feet, at end of month.

(*) Change in contents, in acre-feet.

06656000 NORTH PLATTE RIVER BELOW GUERNSEY RESERVOIR, WY

LOCATION.--Lat 42°16'50", long 104°45'15", in SE 1/4 SE 1/4 sec.27, T.27 N., R.66 W., Platte County, Hydrologic Unit 10180008, on right bank 1.0 mi northwest of Guernsey and 1.1 mi downstream from Guernsey Dam.

DRAINAGE AREA.--16,237 mi², of which 1,216 mi² is probably non-contributing.

PERIOD OF RECORD.--June 1900 to current year (no winter records prior to 1903). Monthly discharge only for some periods, published in WSP 1310. Published as "near Guernsey" 1900-1901, 1904; as "at Guernsey" 1902-3, 1905-8, March to October 1912; as "at Whalen" 1909; as North Platte River and Interstate Canal at Whalen 1910-11, 1913-16; and as "above Whalen" 1917-27.

REVISED RECORDS.--WSP 1310: 1903-4, 1924. WDR WY-76-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,340 ft above sea level, from topographic map. Prior to Nov. 17, 1908, and Mar. 30 to Oct. 31, 1912, nonrecording gages downstream at several sites within 0.8 mi at different datums. May 1, 1909, to Dec. 31, 1927, nonrecording gages at different datums on river and diversion canals at Whalen Dam about 9.0 mi downstream. Jan. 1, 1928, to Sept. 30, 1964, water-stage recorder at site 130 ft downstream and datum 1.50 ft higher. Oct. 1, 1964 to Sept. 29, 1989, water-stage recorder at site 130 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Dec. 22 to Jan. 5, and Feb. 11-12. Records excellent for flows above 1,000 ft³/s and fair below, except those for estimated daily discharges, which are poor. Flow completely regulated by Guernsey Reservoir since 1927. (See sta 06655500.) Small diversions for irrigation between this station and diversion dam at Whalen. Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Twenty-four discharge measurements provided by the Bureau of Reclamation and two discharge measurements provided by the Wyoming State Engineer's Office.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	939	3.6	3.8	3.7	9.0	11	6.9	877	4360	2930	4500	4850
2	934	3.1	3.9	3.5	8.7	11	6.5	869	4170	2940	4500	4790
3	941	3.4	4.0	3.5	8.3	11	6.0	866	4260	2820	4540	4750
4	731	3.4	4.2	3.7	8.3	11	6.3	869	4780	2650	4550	4700
5	246	3.3	4.2	4.0	8.3	11	6.6	874	5130	2610	4570	4650
6	7.3	3.1	4.2	4.3	8.3	10	7.1	872	4900	2670	4650	4610
7	6.2	3.4	4.3	4.7	8.3	9.9	7.5	870	4430	2950	4640	4530
8	6.0	3.8	4.2	4.7	8.3	11	7.6	875	4320	3750	4670	4310
9	6.5	3.7	4.6	5.5	8.8	11	8.1	858	3260	4230	4730	4160
10	7.1	3.4	4.7	6.9	9.0	11	7.3	502	2960	4520	4790	4190
11	6.6	3.4	4.4	6.9	8.0	11	7.9	67	2870	4650	4810	4050
12	4.0	3.4	4.2	6.9	9.0	11	8.5	12	2480	4750	4740	3830
13	4.0	3.3	4.3	6.9	9.1	11	8.3	9.2	2480	4790	4740	3590
14	3.9	4.9	4.8	6.9	9.5	9.9	8.3	9.4	2740	4810	4810	3570
15	6.0	7.6	4.7	7.1	9.9	9.2	9.2	10	3070	4800	4810	3580
16	4.3	6.3	4.8	7.1	10	6.4	9.8	11	3350	4830	4840	3540
17	3.8	5.2	4.1	7.5	10	6.9	9.3	11	3550	4800	4860	3440
18	3.8	3.5	4.2	7.5	10	6.6	9.8	11	3760	4680	4910	3300
19	3.8	3.8	4.7	7.5	10	7.1	9.9	12	3760	4570	4880	3120
20	3.8	3.4	4.2	7.5	9.9	7.5	9.9	13	3730	4450	4890	2650
21	4.2	3.4	4.2	7.5	9.9	8.3	9.9	12	3520	4500	4920	2140
22	3.7	3.4	4.3	7.5	9.9	9.3	9.9	11	3360	4520	4880	1670
23	3.7	3.4	4.5	8.0	9.9	8.8	8.6	483	3310	4530	4850	1430
24	3.8	3.4	4.5	8.3	10	9.0	363	1940	2730	4510	4830	1300
25	3.8	3.4	4.6	8.3	10	7.9	764	2900	2770	4520	4880	1220
26	3.9	3.4	4.5	8.3	10	5.0	884	3770	2770	4540	4880	1180
27	3.8	3.3	4.5	8.3	10	6.0	879	4400	2840	4460	4860	1610
28	3.5	3.4	4.5	8.3	11	5.8	879	5040	2600	4560	4840	1510
29	3.3	3.2	4.3	8.3	---	6.3	880	5430	2580	4350	4840	1250
30	3.4	3.6	3.9	8.3	---	6.3	882	5340	2580	4420	4840	1240
31	3.4	---	3.5	8.7	---	6.3	---	4850	---	4600	4870	---
TOTAL	3908.6	112.9	133.8	206.1	261.4	273.5	5720.2	42673.6	103420	128710	147920	94760
MEAN	126	3.76	4.32	6.65	9.34	8.82	191	1377	3447	4152	4772	3159
MAX	941	7.6	4.8	8.7	11	11	884	5430	5130	4830	4920	4850
MIN	3.3	3.1	3.5	3.5	8.0	5.0	6.0	9.2	2480	2610	4500	1180
AC-FT	7750	224	265	409	518	542	11350	84640	205100	255300	293400	188000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1901 - 1995, BY WATER YEAR (WY)

	MEAN	548	249	179	166	206	455	1144	2941	4214	4745	4201	2658
MAX	5690	2610	1000	800	900	3837	5680	8585	15380	9896	9035	6518	
(WY)	1913	1913	1907	1907	1907	1974	1924	1901	1917	1917	1983	1983	
MIN	2.42	1.40	1.35	1.38	1.27	1.24	11.5	7.15	413	1304	400	196	
(WY)	1990	1976	1963	1990	1991	1991	1957	1990	1982	1902	1902	1902	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1901 - 1995
ANNUAL TOTAL	544191.2	528100.1	--
ANNUAL MEAN	1491	1447	1820
HIGHEST ANNUAL MEAN	--	--	3556
LOWEST ANNUAL MEAN	--	--	832
HIGHEST DAILY MEAN	5450	5430	30000
LOWEST DAILY MEAN	3.1	3.1	.00
ANNUAL SEVEN-DAY MINIMUM	3.3	3.3	.00
INSTANTANEOUS PEAK FLOW	--	5480	30000a
INSTANTANEOUS PEAK STAGE	--	6.35	11.50b
ANNUAL RUNOFF (AC-FT)	1079000	1047000	1318000
10 PERCENT EXCEEDS	4620	4740	4950
50 PERCENT EXCEEDS	12	10	736
90 PERCENT EXCEEDS	3.8	3.8	4.4

a From rating curve extended above 13,000 ft³/s.

b From floodmarks, site and datum then in use.

06657000 NORTH PLATTE RIVER BELOW WHALEN DIVERSION DAM, WY

LOCATION (REVISED).--Lat 42°14'17", long 104°37'41", in SW¹/₄ SW¹/₄ sec.11, T.26 N., R.65 W., Goshen County, Hydrologic Unit 10180009, on left bank 0.7 mi downstream from Whalen diversion dam, and 6.0 mi northwest of Fort Laramie.

DRAINAGE AREA.--16,237 mi², of which 1,219 mi² is probably noncontributing.

PERIOD OF RECORD.--May 1909 to current year. Monthly discharge only, prior to January 1915, published in WSP 1910.

Prior to Apr. 16, 1938, published as "below Whalen", and Apr. 16, 1938, to Sept. 30, 1974, as "at recorder station, below Whalen".

REVISED RECORDS.--WSP 1310: 1924. WDR WY-76-1: Drainage area.

GAGE.--Water-stage recorder and sheet piling weir since Apr. 25, 1994. Elevation of gage is 4,280 ft above sea level, from topographic map. Prior to Apr. 16, 1938, nonrecording gages at Whalen diversion dam and canals 0.7 mi upstream at different datums. Apr. 16, 1938, to Nov. 17, 1955, water-stage recorder at site 1.9 mi downstream, and Nov. 18, 1955, to Apr. 25, 1994, at site 1.8 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Dec. 31 to Jan. 6 and Feb. 10-16. Records good except those for estimated daily discharges, which are poor. Flow regulated by Whalen diversion dam 0.7 mi upstream. Natural flow of stream affected by storage reservoirs, transbasin diversions, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Bureau of Reclamation satellite telemeter at station.

COOPERATION.--Eleven discharge measurements provided by the Bureau of Reclamation and eleven discharge measurements provided by the Wyoming State Engineer's Office.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	11	7.7	6.4	9.5	11	7.0	22	2740	1170	1340	1400
2	37	10	7.1	5.8	10	11	6.9	20	2570	1140	1350	1340
3	36	12	6.8	5.5	10	11	7.0	20	2730	862	1370	1290
4	35	12	6.8	5.4	9.3	11	6.2	20	3290	451	1390	1240
5	114	11	6.9	6.6	9.3	11	6.1	21	3750	394	1390	1190
6	202	11	7.8	7.9	9.6	11	6.6	23	3560	292	1410	1160
7	83	10	7.9	8.2	9.4	10	5.9	22	3110	251	1380	1110
8	62	11	8.6	9.0	9.3	9.9	5.6	24	3240	857	1390	945
9	52	11	7.7	11	9.4	10	5.4	21	2790	1050	1450	864
10	46	9.9	8.1	12	8.9	9.7	5.1	23	2510	1140	1470	891
11	41	9.4	8.6	11	8.6	9.8	5.2	64	2470	1210	1480	812
12	36	9.3	8.4	10	7.4	10	11	42	2060	1280	1430	670
13	31	9.8	8.8	9.3	7.6	10	8.4	36	2050	1310	1420	557
14	28	9.1	9.3	9.4	8.4	9.6	8.2	32	2270	1350	1480	572
15	34	8.8	7.8	9.2	9.2	9.3	7.8	29	2600	1350	1470	616
16	33	9.8	8.2	9.2	10	9.2	8.5	27	2910	1430	1470	619
17	27	10	8.2	8.8	13	8.6	8.8	26	3040	1450	1480	584
18	24	7.7	9.0	9.4	12	8.5	8.9	26	3110	1420	1500	470
19	21	9.7	10	9.1	11	7.7	8.7	24	3100	1340	1480	390
20	20	9.0	8.9	8.8	10	8.1	8.4	25	3080	1220	1480	305
21	18	8.5	8.5	8.8	9.5	8.2	8.8	24	2890	1270	1480	242
22	18	8.3	8.3	8.6	9.4	7.5	8.7	23	2690	1290	1450	224
23	16	8.3	7.8	8.9	9.3	7.6	8.8	176	2670	1330	1430	161
24	15	7.8	8.2	9.8	9.5	8.3	25	1210	2090	1360	1410	67
25	15	7.9	8.2	10	9.4	8.1	92	1820	2080	1390	1430	64
26	14	7.9	8.2	10	9.6	8.9	67	2680	1500	1390	1410	47
27	13	7.1	8.2	11	9.9	7.9	32	3410	1350	1320	1390	366
28	13	7.2	8.1	11	11	7.9	27	4100	1060	1410	1370	391
29	12	8.0	8.2	9.8	---	7.7	24	3870	998	1260	1390	401
30	12	8.2	8.2	9.6	---	7.4	25	3710	861	1190	1380	413
31	12	---	7.2	9.6	---	7.2	---	3170	---	1460	1410	---
TOTAL	1157	280.7	251.7	279.1	269.5	283.1	464.0	24740	75169	35637	44180	19401
MEAN	37.3	9.36	8.12	9.00	9.62	9.13	15.5	798	2506	1150	1425	647
MAX	202	12	10	12	13	11	92	4100	3750	1460	1500	1400
MIN	12	7.1	6.8	5.4	7.4	7.2	5.1	20	861	251	1340	47
AC-FT	2290	557	499	554	535	562	920	49070	149100	70690	87630	38480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1995, BY WATER YEAR (WY)*

	196	100	64.9	57.5	84.4	254	454	1245	1970	1854	1409	701
MEAN	1389	1130	405	494	604	3885	5410	6175	14360	8330	5465	3976
MAX	1918	1987	1930	1927	1930	1974	1924	1924	1917	1917	1983	1983
(WY)	4.20	.71	.30	.24	.012	.000	2.83	13.6	126	559	86.6	43.8
MIN	1967	1967	1967	1962	1967	1976	1954	1990	1982	1934	1934	1934
(WY)												

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1917 - 1995*
ANNUAL TOTAL	131242.2	202112.1	--
ANNUAL MEAN	360	554	703
HIGHEST ANNUAL MEAN	--	--	2992
LOWEST ANNUAL MEAN	--	--	178
HIGHEST DAILY MEAN	1770	4100	19500
LOWEST DAILY MEAN	2.4	5.1	.00
ANNUAL SEVEN-DAY MINIMUM	3.6	5.7	.00
INSTANTANEOUS PEAK FLOW	--	4300	22000a
INSTANTANEOUS PEAK STAGE	--	8.46	9.85b
ANNUAL RUNOFF (AC-FT)	260300	400900	509000
10 PERCENT EXCEEDS	1200	1480	1850
50 PERCENT EXCEEDS	15	16	144
90 PERCENT EXCEEDS	5.5	7.8	3.5

* Period prior to 1917 water year not used in computations, monthly and seasonal only.

For period of record through 1995.

a From rating curve extended above 4,500 ft³/s on basis of studies of peak-flow measurements of upstream floods.

b Site and datum then in use.

06659500 LARAMIE RIVER AND PIONEER CANAL NEAR WOODS, WY

LOCATION.--River: Lat 41°08'17", long 105°58'49", in NW¼ 4 SE¼ 4 sec.36, T.14 N., R.77 W., Albany County, Hydrologic Unit 10180010, on left bank 100 ft upstream from diversion dam for Pioneer Canal, 2.2 mi downstream from Fox Creek, 2.5 mi northeast of Woods, and 23 mi southwest of Laramie.

Canal: Lat 41°08'21", long 105°58'45", in SE¼ 4 NE¼ 4 sec.36, T.14 N., R.77 W., Albany County, on left bank 400 ft downstream from headgate.

DRAINAGE AREA.--434 mi².

PERIOD OF RECORD.--April 1912 to September 1924, October 1926 to September 1927, October 1931 to current year (no winter records since 1972). Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1918-20, 1922, 1924. WSP 1710: Drainage area. WDR WY-84-1: 1983.

GAGE.--River: Water-stage recorder and concrete control. Datum of gage is 7,388.99 ft above sea level. Apr. 16 to Nov. 15, 1912, nonrecording gage and Nov. 16, 1912, to Sept. 22, 1915, water-stage recorder 90 ft downstream between dam crest and canal headgates at datum 1.00 ft higher. Sept. 23, 1915, to Sept. 30, 1924, Apr. 19 to Sept. 30, 1927, and Apr. 11, 1932, to Sept. 30, 1935, water-stage recorder at site 50 ft downstream at datum 1.00 ft higher. Oct. 1, 1935, to July 13, 1950, water-stage recorder at site 50 ft downstream at present datum.

Canal: Water-stage recorder and Parshall flume. Elevation of gage is 7,390 ft above sea level, from topographic map. Apr. 16, 1912, to Apr. 10, 1923, nonrecording gage; Apr. 11, 1923, to Sept. 30, 1924, and Apr. 19 to June 9, 1927, water-stage recorder; June 10 to Sept. 30, 1927, and Apr. 11, 1932, to May 8, 1938, nonrecording gage; May 9, 1938, to Apr. 26, 1966, water-stage recorder at site 1.5 mi downstream at different datums. Apr. 27, 1966, to May 8, 1967, at present site, at datum 0.06 ft lower.

REMARKS.--Estimated daily discharges: Apr. 1, 11. Records good. Pioneer Canal diverts from left bank of river at diversion dam 100 ft downstream for irrigation in vicinity of Laramie. Records show combined flow of river and canal. Three small reservoirs upstream from station in Wyoming, total capacity, about 600 acre-ft for irrigation, stock water, and domestic use. Diversions for irrigation of about 5,200 acres upstream from station. Transbasin diversions upstream from station to Cache la Poudre River and tributaries.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	51	76	571	907	129	38
2	---	---	---	---	---	---	46	83	671	911	122	38
3	---	---	---	---	---	---	44	111	777	930	114	37
4	---	---	---	---	---	---	44	108	871	891	111	38
5	---	---	---	---	---	---	47	103	951	854	119	37
6	---	---	---	---	---	---	52	104	1220	771	114	35
7	---	---	---	---	---	---	54	100	1300	771	104	42
8	---	---	---	---	---	---	58	110	1270	788	92	47
9	---	---	---	---	---	---	58	117	1490	805	84	67
10	---	---	---	---	---	---	56	124	1240	832	81	61
11	---	---	---	---	---	---	54	137	976	841	82	51
12	---	---	---	---	---	---	52	150	1020	825	83	56
13	---	---	---	---	---	---	50	154	1200	777	79	44
14	---	---	---	---	---	---	50	139	1360	852	72	39
15	---	---	---	---	---	---	53	151	1620	869	71	36
16	---	---	---	---	---	---	55	182	1790	691	66	34
17	---	---	---	---	---	---	53	237	1850	597	62	32
18	---	---	---	---	---	---	52	233	2180	566	56	33
19	---	---	---	---	---	---	55	206	1930	542	55	42
20	---	---	---	---	---	---	53	242	1620	502	55	81
21	---	---	---	---	---	---	52	286	1520	413	55	134
22	---	---	---	---	---	---	50	336	1410	344	57	120
23	---	---	---	---	---	---	48	398	1290	307	68	102
24	---	---	---	---	---	---	47	419	1210	269	64	98
25	---	---	---	---	---	---	46	372	1150	245	60	92
26	---	---	---	---	---	---	52	356	1090	208	55	87
27	---	---	---	---	---	---	51	376	1050	179	53	85
28	---	---	---	---	---	---	51	420	1040	157	55	83
29	---	---	---	---	---	---	56	432	1180	147	55	87
30	---	---	---	---	---	---	62	478	1060	144	47	110
31	---	---	---	---	---	---	---	537	---	139	38	---
TOTAL	---	---	---	---	---	---	1552	7277	37907	18074	2358	1886
MEAN	---	---	---	---	---	---	51.7	235	1264	583	76.1	62.9
MAX	---	---	---	---	---	---	62	537	2180	930	129	134
MIN	---	---	---	---	---	---	44	76	571	139	38	32
AC-FT	---	---	---	---	---	---	3080	14430	75190	35850	4680	3740
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1971, BY WATER YEAR (WY)												
MEAN	63.2	52.1	42.1	38.5	40.1	49.9	129	557	769	182	79.8	53.6
MAX	160	94.9	77.4	57.1	74.5	84.9	355	1057	2052	726	127	128
(WY)	1962	1962	1966	1966	1962	1966	1962	1962	1957	1957	1955	1961
MIN	33.7	32.0	28.3	24.3	24.6	27.7	67.0	233	62.9	20.2	24.8	15.1
(WY)	1953	1934	1961	1961	1955	1964	1955	1953	1934	1934	1954	1934

SUMMARY STATISTICS				FOR 1995 WATER YEAR*		WATER YEARS 1912 - 1971	
ANNUAL MEAN						171	
HIGHEST ANNUAL MEAN						319	1957
LOWEST ANNUAL MEAN						64.9	1934
HIGHEST DAILY MEAN				2180	Jun 18	3320	Jun 14 1957
LOWEST DAILY MEAN				32	Sep 17	.00	May 1 1912
ANNUAL SEVEN-DAY MINIMUM						6.0	Oct 15 1913
INSTANTANEOUS PEAK FLOW				2520	Jun 18	5060	Jun 10 1923#
ANNUAL RUNOFF (AC-FT)						123600	
10 PERCENT EXCEEDS						469	
50 PERCENT EXCEEDS						57	
90 PERCENT EXCEEDS						31	

* During period of operation.

For period of record through 1995.

PLATTE RIVER BASIN

06659580 SAND CREEK AT COLORADO-WYOMING STATE LINE

LOCATION.--Lat 40°59'37", long 105°45'35", in NW¹/₄ NW¹/₄ SW¹/₄ sec.24, T.12 N., R.75 W., Larimer County, CO, Hydrologic Unit 10180010, on right bank 1,200 ft south of Colorado-Wyoming State line and 17 mi southwest of Tie Siding, WY.

DRAINAGE AREA.--29.2 mi².

PERIOD OF RECORD.--October 1968 to current year (no winter records since 1971).

GAGE.--Water-stage recorder. Elevation of gage is 7,580 ft above sea level, from topographic map. Prior to July 19, 1977, gage at site 700 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Natural flow affected by diversion upstream from station to Cache la Poudre River basin through Wilson Supply ditch. Water imported upstream from station from Deadman Creek in Laramie River basin is diverted through Wilson Supply ditch but is wasted down Sand Creek at times. Diversions for irrigation of about 170 acres upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	3.8	5.0	52	41	4.8	.95
2	---	---	---	---	---	---	2.0	6.0	52	40	4.3	.85
3	---	---	---	---	---	---	2.0	9.6	51	41	3.6	.95
4	---	---	---	---	---	---	2.2	7.4	48	34	3.9	.95
5	---	---	---	---	---	---	2.3	5.8	48	44	4.3	.95
6	---	---	---	---	---	---	2.7	9.6	43	28	4.1	.95
7	---	---	---	---	---	---	2.9	8.6	40	22	3.4	1.1
8	---	---	---	---	---	---	3.0	11	38	20	3.0	1.6
9	---	---	---	---	---	---	3.2	9.3	41	18	2.7	2.0
10	---	---	---	---	---	---	3.0	11	52	17	2.5	2.0
11	---	---	---	---	---	---	2.9	16	61	15	2.7	1.9
12	---	---	---	---	---	---	2.5	20	71	14	2.5	1.9
13	---	---	---	---	---	---	2.9	19	116	13	2.5	1.6
14	---	---	---	---	---	---	2.9	19	150	16	2.2	1.2
15	---	---	---	---	---	---	3.0	20	180	25	2.0	1.1
16	---	---	---	---	---	---	2.9	25	186	18	1.9	.95
17	---	---	---	---	---	---	2.5	37	207	14	1.7	.95
18	---	---	---	---	---	---	2.7	33	224	12	1.7	1.1
19	---	---	---	---	---	---	2.7	33	168	13	1.7	1.7
20	---	---	---	---	---	---	2.5	38	158	15	1.7	2.5
21	---	---	---	---	---	---	2.7	38	141	13	2.0	3.2
22	---	---	---	---	---	---	2.7	44	120	11	2.5	3.4
23	---	---	---	---	---	---	2.7	48	97	10	2.9	3.0
24	---	---	---	---	---	---	2.5	44	86	8.9	2.5	3.2
25	---	---	---	---	---	---	2.3	39	80	8.3	2.2	3.2
26	---	---	---	---	---	---	3.0	39	66	7.1	2.0	2.9
27	---	---	---	---	---	---	3.2	44	59	5.8	2.1	2.5
28	---	---	---	---	---	---	3.9	52	54	5.2	1.9	2.3
29	---	---	---	---	---	---	4.3	49	64	4.5	1.6	2.9
30	---	---	---	---	---	---	5.0	56	52	4.5	1.4	4.5
31	---	---	---	---	---	---	---	59	---	4.5	1.2	---
TOTAL	---	---	---	---	---	---	86.9	855.3	2805	542.8	79.5	58.30
MEAN	---	---	---	---	---	---	2.90	27.6	93.5	17.5	2.56	1.94
MAX	---	---	---	---	---	---	5.0	59	224	44	4.8	4.5
MIN	---	---	---	---	---	---	2.0	5.0	38	4.5	1.2	.85
AC-FT	---	---	---	---	---	---	172	1700	5560	1080	158	116

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1971, BY WATER YEAR (WY)

	1969	1970	1971	1969	1970	1971	1969	1970	1971	1969	1970	1971
MEAN	3.14	3.34	2.66	2.27	2.46	2.73	9.09	41.6	74.4	7.16	2.30	2.12
MAX	3.68	4.41	2.97	2.53	3.19	2.85	11.6	54.2	116	9.65	3.02	3.22
(WY)	1971	1971	1971	1971	1971	1971	1971	1971	1971	1970	1970	1971
MIN	2.75	2.47	2.39	1.83	1.84	2.65	4.90	29.3	17.8	2.28	1.02	.57
(WY)	1970	1969	1970	1970	1969	1969	1970	1969	1969	1969	1969	1969

SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1969 - 1971
ANNUAL MEAN	---	12.7
HIGHEST ANNUAL MEAN	---	18.0
LOWEST ANNUAL MEAN	---	6.41
HIGHEST DAILY MEAN	224 Jun 18	193 Jun 15 1970
LOWEST DAILY MEAN	.85 Sep 2	.13 Jul 26-28 1972#
ANNUAL SEVEN-DAY MINIMUM	---	.30 Sep 4 1969
INSTANTANEOUS PEAK FLOW	323 Jun 18	6710a Jul 19 1977#
INSTANTANEOUS PEAK STAGE	2.62 Jun 18	6.65b Jul 19 1977#
ANNUAL RUNOFF (AC-FT)	---	9240
10 PERCENT EXCEEDS	---	33
50 PERCENT EXCEEDS	---	3.0
90 PERCENT EXCEEDS	---	1.5

* During period of operation.

For period of record through 1995.

a From slope-area measurement of peak flow.

b From floodmarks.

LOCATION.--Lat 41°17'42", long 106°02'03", in SE¹/₄ NE¹/₄ SE¹/₄ sec.4, T.15 N., R.77 W., Albany County, Hydrologic Unit 10180010, on right bank 40 ft downstream from State Highway 130, 1.2 mi west of Filmore, and 4.4 mi downstream from North Fork.

DRAINAGE AREA.--157 mi². Area at site used prior to Sept. 8, 1976, 156 mi².

PERIOD OF RECORD.--July 1902 to September 1903 (published as "near Hatton"), May 1911 to November 1926, October 1932 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1903, 1914, 1922-26. WSP 1440: 1902. WSP 1730: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,610 ft above sea level, from topographic map. Prior to Sept. 16, 1938, nonrecording gages, and Sept. 16, 1938 to Sept. 7, 1976, water-stage recorder, at sites 0.7 mi upstream at different datums.

REMARKS.--No estimated daily discharges. Records good. Ten small reservoirs upstream from station, combined capacity, about 160 acre-ft, for irrigation, stock water, recreation, and domestic use. Diversions upstream from station for irrigation of about 11,020 acres, of which about 20 acres are downstream from station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	16	28	162	608	99	29
2	---	---	---	---	---	---	16	26	193	589	91	27
3	---	---	---	---	---	---	15	53	253	642	84	28
4	---	---	---	---	---	---	15	59	294	594	84	26
5	---	---	---	---	---	---	15	45	331	499	89	24
6	---	---	---	---	---	---	14	39	478	517	79	29
7	---	---	---	---	---	---	15	35	482	526	73	33
8	---	---	---	---	---	---	15	61	457	508	68	39
9	---	---	---	---	---	---	16	103	530	465	64	40
10	---	---	---	---	---	---	16	79	417	468	62	36
11	---	---	---	---	---	---	16	44	346	453	61	36
12	---	---	---	---	---	---	15	41	226	409	59	33
13	---	---	---	---	---	---	15	39	543	386	59	31
14	---	---	---	---	---	---	15	36	707	429	54	29
15	---	---	---	---	---	---	16	37	892	439	49	28
16	---	---	---	---	---	---	20	47	990	337	47	26
17	---	---	---	---	---	---	24	88	1050	306	44	25
18	---	---	---	---	---	---	24	86	1220	294	41	26
19	---	---	---	---	---	---	21	67	930	311	40	32
20	---	---	---	---	---	---	21	70	907	296	41	41
21	---	---	---	---	---	---	21	73	942	262	43	54
22	---	---	---	---	---	---	24	92	1010	250	44	46
23	---	---	---	---	---	---	24	123	893	207	57	40
24	---	---	---	---	---	---	23	125	882	187	52	38
25	---	---	---	---	---	---	25	127	697	174	52	38
26	---	---	---	---	---	---	28	172	652	151	46	34
27	---	---	---	---	---	---	34	174	702	132	41	32
28	---	---	---	---	---	---	36	150	830	121	39	31
29	---	---	---	---	---	---	30	177	887	109	36	34
30	---	---	---	---	---	---	31	157	632	105	34	39
31	---	---	---	---	---	---	---	155	---	106	32	---
TOTAL	---	---	---	---	---	---	616	2608	19535	10880	1764	1004
MEAN	---	---	---	---	---	---	20.5	84.1	651	351	56.9	33.5
MAX	---	---	---	---	---	---	36	177	1220	642	99	54
MIN	---	---	---	---	---	---	14	26	162	105	32	24
AC-FT	---	---	---	---	---	---	1220	5170	38750	21580	3500	1990

MEAN	31.0	28.2	23.9	19.6	20.5	26.4	55.6	242	550	155	50.3	28.9
MAX	77.2	50.0	40.0	35.0	53.7	47.9	136	502	1217	572	126	74.7
(WY)	1913	1913	1913	1913	1962	1971	1924	1926	1903	1917	1912	1912
MIN	13.2	10.0	10.0	8.76	8.00	9.97	17.6	69.5	48.3	17.9	12.6	8.80
(WY)	1936	1920	1934	1955	1955	1955	1955	1968	1934	1934	1934	1913

ANNUAL MEAN	FOR 1950-1965	WINTER YEAR	ANNUAL MEAN 1966-1972	
HIGHEST ANNUAL MEAN	--		103	
LOWEST ANNUAL MEAN	--		184	1917
HIGHEST DAILY MEAN	1220	Jun 18	32.7	1934
LOWEST DAILY MEAN	14	Apr 6	2400	Jun 1 1914
ANNUAL SEVEN-DAY MINIMUM	--		1.0	Sep 17-20 1913#
INSTANTANEOUS PEAK FLOW	1430	Jun 18	1.7	Sep 15 1913
INSTANTANEOUS PEAK STAGE	4.40	Jun 18	3450	Jun 10 1965#
ANNUAL RUNOFF (AC-FT)	--		5.33	Jun 10 1965
10 PERCENT EXCEEDS	--		74370	
50 PERCENT EXCEEDS	--		275	
90 PERCENT EXCEEDS	--		31	
	--		16	

For period of record through 1995.

06661585 LARAMIE RIVER NEAR BOSLER, WY

LOCATION.--Lat 41°33'17", long 105°40'58", in NW¹/₄ NW¹/₄ NE¹/₄ sec.10, T.18 N., R.74 W., Albany County, Hydrologic Unit 10180010, on left bank 50 ft upstream from bridge on U.S. Highways 30 and 287, 0.2 mi northwest of Bosler Junction, 1.7 mi south of Bosler, and 2.0 mi downstream from Soil Bank Boughton Canal diversion dam.

DRAINAGE AREA.--1,790 mi², of which 283 mi² is probably noncontributing.

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,030 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 4 to Mar. 13, Mar. 24-26, June 16-20, and Sept. 20-30. Records good except those for periods of estimated daily discharge, which are poor. Natural flow of stream affected by transbasin diversions, storage reservoirs, diversion upstream from station for irrigation of about 54,700 acres, of which about 2,300 acres are downstream from station, and return flow from irrigated areas.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	9.6	6.6	6.1	25	39	23	18	423	1260	98	15
2	2.2	7.9	6.9	5.0	28	39	18	18	406	1240	91	13
3	2.1	8.3	7.3	4.5	30	38	15	28	402	1040	86	12
4	2.5	8.2	7.7	3.8	33	38	13	59	436	907	81	11
5	3.0	8.2	8.0	5.0	37	37	9.6	67	523	858	72	7.9
6	3.1	8.0	6.6	7.0	40	37	7.9	53	626	776	65	7.2
7	3.0	8.0	5.2	9.0	43	40	7.2	37	665	640	63	7.2
8	3.0	7.9	4.7	13	47	45	7.2	40	767	520	55	8.3
9	5.0	7.8	5.0	17	51	50	6.0	99	914	440	45	11
10	7.2	7.8	5.2	22	56	54	6.1	158	1150	404	43	50
11	6.9	7.7	5.6	32	61	54	6.4	109	1290	421	41	27
12	6.0	7.6	5.8	39	68	54	9.6	74	1360	450	41	27
13	7.9	7.5	6.1	38	67	54	7.9	61	1320	468	37	30
14	8.7	7.4	6.5	36	63	53	7.2	49	1260	466	32	28
15	10	7.4	6.9	35	60	57	6.4	40	1140	511	30	24
16	14	7.3	7.2	33	56	53	7.2	35	1100	516	27	21
17	11	7.2	7.6	32	52	55	8.7	65	1110	501	24	17
18	10	7.1	8.0	31	50	55	9.6	79	1290	392	20	17
19	11	7.0	8.4	29	48	55	10	91	1530	299	18	17
20	9.6	7.0	8.8	28	46	55	10	77	2050	256	17	16
21	15	6.9	9.3	27	45	49	8.7	67	2340	236	17	16
22	12	6.8	9.8	26	44	47	8.7	57	2250	205	16	16
23	8.7	6.8	10	25	43	49	8.7	59	2000	168	17	17
24	7.2	6.7	11	24	43	45	10	63	1860	138	19	17
25	7.5	6.6	11	23	43	42	11	67	1800	129	26	17
26	7.2	6.6	12	22	42	39	12	88	1670	117	27	17
27	6.6	6.5	13	21	41	36	11	154	1550	104	28	17
28	8.7	6.4	13	20	40	23	12	266	1440	101	25	18
29	9.6	6.4	11	20	---	19	15	314	1330	104	20	18
30	10	6.4	9.0	21	---	30	16	409	1240	111	18	18
31	7.9	---	7.7	24	---	23	---	453	---	104	18	---
TOTAL	228.7	221.0	250.9	678.4	1302	1364	309.1	3254	37242	13882	1217	537.6
MEAN	7.38	7.37	8.09	21.9	46.5	44.0	10.3	105	1241	448	39.3	17.9
MAX	15	9.6	13	39	68	57	23	453	2340	1260	98	50
MIN	2.1	6.4	4.7	3.8	25	19	6.0	18	402	101	16	7.2
AC-FT	454	438	498	1350	2580	2710	613	6450	73870	27530	2410	1070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1995, BY WATER YEAR (WY)

	MEAN	53.8	69.4	53.6	43.5	53.2	107	159	282	753	282	85.7	30.2
MAX	196	155	101	92.7	120	209	531	1198	2512	1529	428	140	
(WY)	1985	1987	1984	1986	1986	1986	1984	1984	1983	1983	1984	1984	
MIN	3.26	7.37	8.09	18.8	29.8	44.0	10.3	17.0	86.4	9.45	4.43	.96	
(WY)	1993	1995	1995	1991	1989	1995	1995	1990	1994	1994	1994	1994	

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1973 - 1995
ANNUAL TOTAL	18188.85	60486.7	--
ANNUAL MEAN	49.8	166	164
HIGHEST ANNUAL MEAN	--	--	475
LOWEST ANNUAL MEAN	--	--	39.4
HIGHEST DAILY MEAN	362	May 16, 17	4390
LOWEST DAILY MEAN	.10	Sep 20	.00
ANNUAL SEVEN-DAY MINIMUM	.24	Sep 16	.03
INSTANTANEOUS PEAK FLOW	--	2340	4480a
INSTANTANEOUS PEAK STAGE	--	6.06	8.40b
ANNUAL RUNOFF (AC-FT)	36080	120000	119000
10 PERCENT EXCEEDS	136	505	379
50 PERCENT EXCEEDS	15	25	59
90 PERCENT EXCEEDS	2.3	6.7	13

a Gage height, 7.39 ft.

b Backwater from ice.

205

LOCATION.--Lat 41°45'44", long 105°41'16", in NE 1/4 NW 1/4 SE 1/4 sec.27, T.21 N., R.74 W., Albany County, Hydrologic Unit 10180010, on right bank 155 ft downstream from bridge on county road, 1.0 mi upstream from Wheatland Reservoir No. 2, and 9.0 mi northeast of Lookout.

PERIOD OF RECORD.--May 1912 to December 1917, January 1921 to December 1927, April 1932 to current year (no winter records since 1972). Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1913-17. WSP 1710: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6.962.68 ft above sea level. Prior to Apr. 22, 1915, nonrecording

GAGE.--Water-stage recorder. Datum of gage is 8,962.68 ft above sea level. Prior to Apr. 22, 1915, nonrecording gage and Apr. 22, 1915, to Aug. 31, 1917, water-stage recorder, at bridge, 155 ft upstream at same datum.

gage and Apr. 22, 1915, to Aug. 31, 1917, water-stage recorder, at bridge, 155 ft upstream at same datum.
Oct. 14, 1931, to Sept. 17, 1938, at site 125 ft upstream at same datum.

REMARKS -- Estimated daily discharges: Apr. 1-2. Records good. Natural flow of stream affected by transbasin

REMARKS.--Estimated daily discharges: Apr. 1, 2. Records good. Natural flow of stream affected by transbasin diversions, storage reservoirs, diversion for irrigation of about 108,000 acres upstream from station, and return flow from irrigated areas.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	15	5.0	414	1300	133	22
2	---	---	---	---	---	---	15	4.1	425	1330	117	18
3	---	---	---	---	---	---	14	8.1	449	1230	108	16
4	---	---	---	---	---	---	12	11	458	1010	108	14
5	---	---	---	---	---	---	6.3	45	466	906	108	12
6	---	---	---	---	---	---	4.2	55	470	853	91	11
7	---	---	---	---	---	---	3.2	47	538	723	86	9.6
8	---	---	---	---	---	---	2.3	45	600	587	76	9.6
9	---	---	---	---	---	---	6.2	53	701	491	66	10
10	---	---	---	---	---	---	2.1	127	853	445	59	16
11	---	---	---	---	---	---	1.9	140	1050	441	55	52
12	---	---	---	---	---	---	4.7	99	1200	445	57	33
13	---	---	---	---	---	---	2.6	71	1260	470	55	30
14	---	---	---	---	---	---	1.9	69	1250	470	49	31
15	---	---	---	---	---	---	3.0	59	1170	491	45	30
16	---	---	---	---	---	---	2.9	53	1070	491	41	26
17	---	---	---	---	---	---	2.9	71	1110	491	37	23
18	---	---	---	---	---	---	3.9	108	1240	462	31	22
19	---	---	---	---	---	---	2.9	105	1490	391	23	31
20	---	---	---	---	---	---	2.6	108	1940	350	22	31
21	---	---	---	---	---	---	2.9	91	2370	306	22	33
22	---	---	---	---	---	---	2.6	86	2550	281	23	41
23	---	---	---	---	---	---	3.2	78	2490	263	28	41
24	---	---	---	---	---	---	2.7	78	2290	240	25	45
25	---	---	---	---	---	---	2.9	80	2110	217	23	53
26	---	---	---	---	---	---	3.5	80	2020	206	30	64
27	---	---	---	---	---	---	3.5	117	1850	188	30	64
28	---	---	---	---	---	---	6.9	195	1680	164	33	62
29	---	---	---	---	---	---	6.8	300	1560	133	31	62
30	---	---	---	---	---	---	6.8	372	1400	137	26	64
31	---	---	---	---	---	---	---	387	---	140	23	---
TOTAL	---	---	---	---	---	---	151.4	3147.2	38474	15652	1661	976.2
MEAN	---	---	---	---	---	---	5.05	102	1282	505	53.6	32.5
MAX	---	---	---	---	---	---	15	387	2550	1330	133	64
MIN	---	---	---	---	---	---	1.9	4.1	414	133	22	9.6
AC-FT	---	---	---	---	---	---	300	6240	76310	31050	3290	1940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1972, BY WATER YEAR (WY)												
MEAN	42.0	45.5	35.4	30.5	38.7	61.6	99.9	207	643	200	59.0	26.1
MAX	204	119	85.1	73.0	74.4	120	544	656	1898	1163	267	97.4
(WY)	1966	1966	1947	1971	1954	1939	1917	1917	1917	1917	1945	1938
MIN	.000	.000	.000	.65	.40	9.34	13.0	10.3	8.99	.065	.000	.000
(WY)	1935	1935	1935	1955	1955	1964	1940	1953	1954	1954	1954	1934

WATER YEARS 1912 - 1972*

ANNUAL MEAN		122	
HIGHEST ANNUAL MEAN	--	401	1917
LOWEST ANNUAL MEAN	--	15.9	1934
HIGHEST DAILY MEAN	2550	3130	Jun 17 1957
LOWEST DAILY MEAN	1.9 Apr 11, 14	.00	Jul 15 1934
ANNUAL SEVEN-DAY MINIMUM	--	.00	Jul 15 1934
INSTANTANEOUS PEAK FLOW	2560 Jun 22	4380a	Jun 29 1983#
INSTANTANEOUS PEAK STAGE	5.80 Jun 22	8.0b	1973#
ANNUAL RUNOFF (AC-FT)	--	88600	
10 PERCENT EXCEEDS	--	299	
50 PERCENT EXCEEDS	--	47	
90 PERCENT EXCEEDS	--	6.5	

* January 1921 to December 1927 not used in computations.

** During period of operation.

For period of record through 1995.

a Gage height, 6.99 ft.

b Backwater from ice.

PLATTE RIVER BASIN

06664400 SYBILLE CREEK ABOVE MULE CREEK, NEAR WHEATLAND, WY

LOCATION.--Lat 41°50'39", long 105°13'15", in NE¹/₄ SW¹/₄ SE¹/₄ sec.27, T.22 N., R.70 W., Platte County, Hydrologic Unit 10180011, on right bank just upstream from bridge on U.S. Highway 34, 900 ft upstream from Mule Creek, 2.9 mi upstream from Bluegrass Creek, and 20 mi southwest of Wheatland.

DRAINAGE AREA.--194 mi².

PERIOD OF RECORD.--April 1974 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,340 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Seven small diversions upstream from station, combined capacity, about 400 acre-ft, for irrigation. Diversions upstream from station for irrigation of about 2,020 acres, of which about 80 acres are downstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	1.5	8.1	136	107	29	11
2	---	---	---	---	---	---	1.7	9.0	135	102	26	11
3	---	---	---	---	---	---	1.5	9.0	151	94	26	11
4	---	---	---	---	---	---	1.5	11	154	89	26	11
5	---	---	---	---	---	---	1.5	13	148	87	26	11
6	---	---	---	---	---	---	1.5	13	142	85	26	11
7	---	---	---	---	---	---	1.2	14	146	85	26	11
8	---	---	---	---	---	---	1.2	29	168	76	26	13
9	---	---	---	---	---	---	1.7	55	223	70	24	14
10	---	---	---	---	---	---	1.9	62	283	72	24	14
11	---	---	---	---	---	---	1.7	60	287	68	24	14
12	---	---	---	---	---	---	1.7	57	260	63	23	13
13	---	---	---	---	---	---	5.1	55	237	53	21	12
14	---	---	---	---	---	---	5.1	51	220	54	21	13
15	---	---	---	---	---	---	5.9	47	211	56	20	13
16	---	---	---	---	---	---	6.7	43	199	51	17	12
17	---	---	---	---	---	---	7.2	66	183	48	17	12
18	---	---	---	---	---	---	7.6	90	182	48	17	13
19	---	---	---	---	---	---	6.7	89	163	53	17	16
20	---	---	---	---	---	---	6.3	82	153	54	16	21
21	---	---	---	---	---	---	6.3	88	140	50	17	24
22	---	---	---	---	---	---	6.3	85	135	48	18	23
23	---	---	---	---	---	---	6.7	96	128	43	19	22
24	---	---	---	---	---	---	6.7	106	121	41	17	21
25	---	---	---	---	---	---	7.2	124	115	40	18	19
26	---	---	---	---	---	---	7.6	134	107	37	17	19
27	---	---	---	---	---	---	7.2	142	102	30	14	19
28	---	---	---	---	---	---	9.0	147	106	26	14	18
29	---	---	---	---	---	---	7.6	153	118	25	14	18
30	---	---	---	---	---	---	8.6	147	115	25	13	18
31	---	---	---	---	---	---	---	141	---	28	13	---
TOTAL	---	---	---	---	---	---	142.4	2226.1	4968	1808	626	458
MEAN	---	---	---	---	---	---	4.75	71.8	166	58.3	20.2	15.3
MAX	---	---	---	---	---	---	9.0	153	287	107	29	24
MIN	---	---	---	---	---	---	1.2	8.1	102	25	13	11
AC-FT	---	---	---	---	---	---	282	4420	9850	3590	1240	908

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1995, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	4.24	---	---	---	---	7.75	33.4	73.5	49.5	26.0	14.9	6.50										
MAX	4.24	---	---	---	---	7.75	201	533	382	193	62.7	23.3										
(WY)	1989	---	---	---	---	1987	1983	1983	1983	1983	1983	1983										
MIN	4.24	---	---	---	---	7.75	2.27	4.14	2.67	.89	.65	.92										
(WY)	1989	---	---	---	---	1987	1977	1977	1989	1989	1989	1977										

SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1974 - 1995*
HIGHEST DAILY MEAN	287 Jun 11	1280 Aug 20 1990
LOWEST DAILY MEAN	1.2 Apr 7,8	.49 Sep 8 1977
ANNUAL SEVEN-DAY MINIMUM	--	.55 Jul 21 1989
INSTANTANEOUS PEAK FLOW	291 Jun 11	19900a Aug 20 1990
INSTANTANEOUS PEAK STAGE	4.17 Jun 11	15.60 Aug 20 1990
10 PERCENT EXCEEDS	--	63
50 PERCENT EXCEEDS	--	9.0
90 PERCENT EXCEEDS	--	2.4

* During period of operation.

a On basis of slope-area measurement of peak flow at site 1.2 mi upstream.

06665790 SYBILLE CREEK ABOVE CANAL NO. 3, NEAR WHEATLAND, WY

LOCATION.--Lat 41°54'40", long 105°07'36", in NW¹/₄ SW¹/₄ NE¹/₄ sec.4, T.22 N., R.69 W., Platte County, Hydrologic Unit 10180011, on right bank 100 ft upstream from State Highway 34, 200 ft downstream from Deadhead Creek, 2.7 mi upstream from Canal No. 3, and 19.7 mi southwest of Wheatland.

PERIOD OF RECORD.--April 1980 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,040 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Most of flow during irrigation season is water released from Wheatland Reservoir No. 2, capacity 98,930 acre-ft, on the Laramie River and diverted down Bluegrass Creek for irrigation of land near Wheatland. Diversions for irrigation of about 4,400 acres upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	8.1	20	76	173	91	74
2	---	---	---	---	---	---	6.4	20	73	168	85	78
3	---	---	---	---	---	---	6.4	24	118	161	82	82
4	---	---	---	---	---	---	5.9	21	256	158	80	82
5	---	---	---	---	---	---	5.4	21	247	152	71	80
6	---	---	---	---	---	---	5.0	22	216	147	65	72
7	---	---	---	---	---	---	5.0	24	215	144	62	49
8	---	---	---	---	---	---	5.4	79	329	134	61	45
9	---	---	---	---	---	---	5.4	84	422	127	71	42
10	---	---	---	---	---	---	6.4	72	418	108	89	34
11	---	---	---	---	---	---	6.9	64	375	71	84	32
12	---	---	---	---	---	---	6.9	58	373	35	82	32
13	---	---	---	---	---	---	5.4	56	353	29	74	31
14	---	---	---	---	---	---	8.1	54	334	46	69	32
15	---	---	---	---	---	---	8.6	50	310	38	65	32
16	---	---	---	---	---	---	9.93	45	290	29	65	32
17	---	---	---	---	---	---	11	56	276	23	69	36
18	---	---	---	---	---	---	12	74	283	25	69	56
19	---	---	---	---	---	---	11	78	256	40	69	62
20	---	---	---	---	---	---	11	72	238	65	67	55
21	---	---	---	---	---	---	11	75	219	70	72	45
22	---	---	---	---	---	---	9.9	72	212	38	102	43
23	---	---	---	---	---	---	9.9	85	199	28	113	56
24	---	---	---	---	---	---	9.9	98	193	21	100	52
25	---	---	---	---	---	---	11	102	187	19	87	46
26	---	---	---	---	---	---	12	91	171	18	89	42
27	---	---	---	---	---	---	13	98	163	29	82	40
28	---	---	---	---	---	---	14	87	177	22	80	39
29	---	---	---	---	---	---	17	87	196	34	78	39
30	---	---	---	---	---	---	19	89	187	82	74	42
31	---	---	---	---	---	---	---	87	---	96	72	---
TOTAL	---	---	---	---	---	---	277.9	1965	7362	2330	2419	1482
MEAN	---	---	---	---	---	---	9.26	63.4	245	75.2	78.0	49.4
MAX	---	---	---	---	---	---	19	102	422	173	113	82
MIN	---	---	---	---	---	---	5.0	20	73	18	61	31
AC-FT	---	---	---	---	---	---	551	3860	14600	4620	4800	2940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1995, BY WATER YEAR (WY)

MEAN	29.0	---	---	---	---	25.5	63.4	124	96.7	91.5	78.2	37.5
MAX	29.0	---	---	---	---	25.5	260	665	347	191	192	68.3
(WY)	1989	---	---	---	---	1987	1983	1983	1983	1983	1983	1983
MIN	29.0	---	---	---	---	25.5	7.85	16.5	20.2	34.5	31.8	3.09
(WY)	1989	---	---	---	---	1987	1982	1989	1992	1992	1981	1989

SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1980 - 1995*
HIGHEST DAILY MEAN	422 Jun 9	1280 May 22 1983
LOWEST DAILY MEAN	5.0 May 6,7	.00 Sep 1-4,11 1981
ANNUAL SEVEN-DAY MINIMUM	--	.86 Aug 29 1981
INSTANTANEOUS PEAK FLOW	482 Jun 9	6900a Aug 20 1990
INSTANTANEOUS PEAK STAGE	2.55 Jun 9	8.35b Aug 20 1990
10 PERCENT EXCEEDS	--	146
50 PERCENT EXCEEDS	--	49
90 PERCENT EXCEEDS	--	12

* During period of operation.

a From rating curve extended above 1,300 ft³/s on basis of contracted opening measurement of peak flow.

b From floodmarks.

PLATTE RIVER BASIN

06669050 WHEATLAND CREEK BELOW WHEATLAND, WY

LOCATION.--Lat 42°05'05", long 104°57'02", in SW¹/₄ SW¹/₄ NE¹/₄ sec.1, T.24 N., R.68 W., Platte County, Hydrologic Unit 10180011, 50 ft upstream from bridge on U.S. Highway 87, 50 ft downstream from sewage lagoons, and 1.6 mi north of Wheatland city limits.

PERIOD OF RECORD.--Water years 1983 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)
NOV 29...	1530	0.96	1320	8.8	1.0	-1.0	645
MAR 20...	0930	0.80	1290	8.5	6.5	11.0	641
JUL 07...	0955	1.3	1130	8.2	17.5	27.0	649
SEP 12...	1035	1.1	1350	8.7	17.0	21.0	646

DATE	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
NOV 29...	14.4	120	K8	0.02	2.6	0.83	0.12
MAR 20...	10.0	97	K34	0.07	1.8	4.9	0.70
JUL 07...	6.4	79	260	0.05	3.5	0.24	0.37
SEP 12...	8.0	98	120	0.36	1.9	0.16	0.01

K-Results based on colony count outside the acceptable range (non-ideal colony count).

06670500 LARAMIE RIVER NEAR FORT LARAMIE, WY

LOCATION.--Lat 42°12'02", long 104°32'16", in NE¹/₄ SE¹/₄ NE¹/₄ sec.28, T.26 N., R.64 W., Goshen County, Hydrologic Unit 10180011, on right bank 600 ft upstream from bridge on county road, 0.6 mi upstream from mouth, and 1.1 mi southwest of Fort Laramie.

DRAINAGE AREA.--4,564 mi², of which 631 mi² is probably non-contributing. Drainage area at mouth, 4,565 mi².

PERIOD OF RECORD.--April 1915 to current year (no winter records prior to 1927). Monthly discharge only for some periods, published in WSP 1310. Records for water years 1926-39, previously published including diversions to Gering-Fort Laramie Canal, were adjusted to exclude flow in the canal in WSP 1310. Prior to October 1931, published as "at Fort Laramie." No diversion to Gering-Fort Laramie Canal since 1956.

REVISED RECORDS.--WSP 1918: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,220 ft above sea level, from topographic map. Apr. 4, 1915, to Mar. 31, 1925, nonrecording gage at site 0.1 mi downstream at different datum. Apr. 1, 1925, to Sept. 30, 1932, nonrecording gage and Oct. 1, 1932, to Aug. 20, 1935, water-stage recorder at site 4.3 mi upstream at different datum. Aug. 21, 1935, to Nov. 2, 1970, water-stage recorder at site 0.3 mi upstream at different datum. Nov. 3, 1970, to May 9, 1973, water-stage recorder 0.1 mi downstream at different datum. May 10, 1973, to Apr. 5, 1977, water-stage recorder 4.3 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 29,30, Dec. 7-12, 15, 16, 20-23, Dec. 28 to Jan. 7, Jan. 18-20, 22-26, Feb.10-16, and Mar. 3. Records good except those for estimated daily discharges, which are poor. Diversion, at times, to Gering-Fort Laramie Canal, 5.4 mi upstream. Natural flow of stream affected by transbasin diversions, storage reservoirs, ground-water withdrawals and diversions for irrigation of about 176,000 acres upstream from station, and return flow from irrigated areas. U.S. Corps of Engineers satellite telemeter at station.

COOPERATION.--Thirteen discharge measurements provided by the Wyoming State Engineer's office.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	49	50	34	46	43	63	67	215	848	79	53
2	51	49	47	31	44	47	63	36	215	831	76	58
3	51	50	46	29	38	45	56	40	224	806	67	56
4	52	48	47	28	36	47	52	40	451	777	62	49
5	51	47	44	30	36	45	46	40	497	695	60	47
6	52	47	44	32	36	44	47	53	516	572	60	63
7	53	47	42	34	37	41	48	59	821	505	58	58
8	48	47	41	36	39	40	49	88	975	488	55	55
9	53	48	39	35	40	40	45	78	2430	482	55	60
10	55	48	37	37	39	40	46	146	2830	471	57	62
11	55	48	39	40	38	41	48	188	2940	458	58	64
12	53	47	42	41	36	40	49	196	2820	442	55	57
13	52	48	44	47	34	41	51	197	2540	400	52	57
14	52	48	45	47	33	42	51	189	2040	307	49	58
15	56	45	43	43	35	37	43	190	1220	242	47	57
16	55	46	48	42	37	40	48	193	1390	237	50	53
17	55	47	53	41	38	42	47	200	1340	238	46	50
18	56	46	49	39	39	41	48	205	1170	236	39	47
19	53	47	46	37	42	41	52	220	1020	225	33	48
20	52	47	44	38	41	41	52	247	987	188	36	66
21	51	47	45	40	41	38	47	241	859	173	37	71
22	52	47	42	41	42	37	45	224	721	170	38	64
23	52	46	45	47	39	38	44	227	742	169	45	52
24	53	47	48	47	33	38	37	220	752	156	56	47
25	55	46	57	47	37	39	15	207	762	139	66	51
26	56	46	58	41	43	37	62	216	761	130	61	52
27	56	46	47	38	46	36	26	225	827	119	64	52
28	54	46	44	38	41	36	39	225	743	111	64	51
29	49	45	43	53	---	32	47	222	647	99	63	51
30	50	48	41	53	---	14	62	206	715	86	52	54
31	50	---	37	47	---	35	---	214	---	82	50	---
TOTAL	1633	1413	1397	1233	1086	1218	1428	5099	34170	10882	1690	1663
MEAN	52.7	47.1	45.1	39.8	38.8	39.3	47.6	164	1139	351	54.5	55.4
MAX	56	50	58	53	46	47	63	247	2940	848	79	71
MIN	48	45	37	28	33	14	15	36	215	82	33	47
AC-FT	3240	2800	2770	2450	2150	2420	2830	10110	67780	21580	3350	3300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1995, BY WATER YEAR (WY)

	MEAN	73.2	86.4	92.7	89.9	94.6	107	162	418	340	144	66.9	63.1
MAX	350	388	464	360	418	425	1056	3145	2967	1925	390	245	
(WY)	1985	1985	1985	1985	1984	1984	1984	1973	1983	1983	1984	1973	
MIN	13.9	10.3	6.35	6.32	17.3	21.7	37.5	25.3	17.3	23.1	8.73	15.0	
(WY)	1965	1981	1981	1981	1981	1981	1983	1963	1966	1966	1975	1964	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1957 - 1995
ANNUAL TOTAL	17723	62912	--
ANNUAL MEAN	48.6	172	145
HIGHEST ANNUAL MEAN	--	--	672
LOWEST ANNUAL MEAN	--	--	26.1
HIGHEST DAILY MEAN	126	Jul 15	2940
LOWEST DAILY MEAN	27	Aug 8	14
ANNUAL SEVEN-DAY MINIMUM	29	Aug 4	31
INSTANTANEOUS PEAK FLOW	--	--	3110
INSTANTANEOUS PEAK STAGE	--	--	7.54
ANNUAL RUNOFF (AC-FT)	35150	124800	105100
10 PERCENT EXCEEDS	56	463	228
50 PERCENT EXCEEDS	46	49	68
90 PERCENT EXCEEDS	39	37	27

06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE

LOCATION.--Lat 41°59'19", long 104°03'10", in SE¹/₄ SE¹/₄ SE¹/₄ sec.3, T.23 N., R.60 W., Goshen County, Hydrologic Unit 10180009, on right bank 2000 ft upstream from bridge on NE State Highway 86, 250 ft upstream from Wyoming-Nebraska State line, and 0.7 mi southeast of Henry, NE.

DRAINAGE AREA.--22,218 mi², of which 1,929 mi² is probably non-contributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1929 to current year.

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

GAGE.--Water-stage recorder. Sheet-piling control since Mar. 9, 1994. Datum of gage is 4,025 ft above sea level, from topographic map. Prior to Nov. 6, 1929, non-recording gage and Nov. 6, 1929, to Sept. 30, 1959, water-stage recorder at site 0.2 mi upstream at different datum. Oct. 7, 1959 to Feb. 22, 1972 water-stage recorder at site 0.2 mi upstream at different datum. Feb. 22, 1972 to Mar. 9, 1994, water-stage recorder at site 0.3 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Dec. 10, Dec. 31 to Jan. 8, and Feb. 11-16. Records fair except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, transbasin diversions, power development, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Gering-Mitchell Canal diverts from right bank 0.5 mi upstream. U.S. Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	368	296	252	200	202	184	163	202	3220	1810	1290	1300
2	366	290	251	205	205	184	167	202	2970	1980	1230	1290
3	364	288	247	197	197	182	167	201	2990	1940	1200	1260
4	366	285	248	189	195	183	165	196	3150	1700	1240	1240
5	395	283	240	191	193	178	166	193	3640	1450	1240	1210
6	388	282	239	178	193	178	166	202	3830	1270	1250	1190
7	446	281	238	186	193	175	166	214	3730	1100	1270	1190
8	416	281	239	197	191	175	161	433	3880	991	1250	1190
9	388	279	237	204	188	176	160	354	4670	1270	1250	1110
10	377	279	222	212	186	172	163	285	5210	1310	1270	1050
11	369	279	231	217	180	176	162	294	5480	1360	1290	1080
12	373	279	231	214	173	178	166	315	5490	1370	1300	1010
13	359	277	231	210	170	175	173	339	5270	1370	1260	913
14	344	272	234	209	167	176	175	336	5120	1400	1240	856
15	370	271	230	210	171	177	173	341	4750	1390	1260	843
16	370	271	226	212	178	175	173	248	4520	1360	1270	846
17	366	269	225	204	183	174	176	311	4570	1430	1290	848
18	355	261	228	201	191	177	176	256	4690	1480	1300	860
19	340	262	231	200	188	177	180	224	4500	1500	1290	845
20	332	262	225	203	189	179	183	248	4390	1410	1300	842
21	325	260	223	201	193	178	183	272	4270	1280	1320	811
22	319	258	226	198	191	174	184	249	3890	1290	1330	715
23	316	255	224	196	189	169	182	239	3690	1320	1200	796
24	310	255	222	196	189	171	184	289	3480	1340	1280	787
25	307	256	223	198	188	168	181	933	3050	1310	1280	686
26	306	257	223	200	190	165	180	1630	2870	1280	1260	624
27	305	254	223	206	187	163	196	2290	2410	1260	1260	576
28	305	248	222	210	186	159	196	2910	2500	1190	1240	657
29	299	244	222	203	---	158	195	3340	2020	1270	1250	758
30	299	246	221	199	---	160	197	3460	1790	1110	1240	804
31	299	---	210	199	---	159	---	3420	---	1230	1260	---
TOTAL	10842	8080	7144	6245	5246	5375	5259	24426	116040	42771	39210	28187
MEAN	350	269	230	201	187	173	175	788	3868	1380	1265	940
MAX	446	296	252	217	205	184	197	3460	5490	1980	1330	1300
MIN	299	244	210	178	167	158	160	193	1790	991	1200	576
AC-FT	21510	16030	14170	12390	10410	10660	10430	48450	230200	84840	77770	55910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1995, BY WATER YEAR (WY)

	MEAN	513	431	383	338	345	497	600	1166	1633	1528	1274	874
MAX	1666	1454	895	751	1063	4202	4407	7226	10360	7170	5751	4766	
(WY)	1987	1987	1930	1930	1984	1974	1974	1971	1929	1983	1983	1983	
MIN	150	174	191	166	148	141	141	43.9	49.1	611	154	230	
(WY)	1957	1935	1991	1993	1993	1991	1991	1990	1992	1934	1934	1934	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1929 - 1995

ANNUAL TOTAL	177882	298825	---	---
ANNUAL MEAN	487	819	781	---
HIGHEST ANNUAL MEAN	---	---	2863	1984
LOWEST ANNUAL MEAN	---	---	388	1992
HIGHEST DAILY MEAN	1750	Jul 15	5490	Jun 12
LOWEST DAILY MEAN	142	Apr 21	158	Mar 29
ANNUAL SEVEN-DAY MINIMUM	146	Apr 18	161	Mar 26
INSTANTANEOUS PEAK FLOW	---	---	5660	Jun 12
INSTANTANEOUS PEAK STAGE	---	---	5.72	Jun 12
ANNUAL RUNOFF (AC-FT)	352800	592700	565600	---
10 PERCENT EXCEEDS	1160	1860	1440	---
50 PERCENT EXCEEDS	279	277	488	---
90 PERCENT EXCEEDS	166	176	210	---

a Maximum observed.

b Site and datum then in use.

YELLOWSTONE RIVER BASIN

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06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)
OCT					
06...	0930	390	935	13.0	4.0
NOV					
15...	1620	265	976	6.0	7.0
DEC					
02...	1710	225	994	4.0	9.5
JAN					
24...	1715	206	1010	5.0	1.5
FEB					
28...	1740	187	993	5.0	-7.0
APR					
06...	1110	162	986	12.5	11.5
JUN					
26...	0930	2960	699	18.0	19.0
AUG					
03...	1630	1260	732	21.5	26.5
SEP					
13...	0930	920	627	16.0	17.0

PLATTE RIVER BASIN

06753400 LONETREE CREEK AT CARR, CO
(National Water-Quality Assessment Program station)

LOCATION.--Lat 40°53'54", long 104°52'03", in NE¹/₄ NE¹/₄ sec.27, T.11 N., R.67 W., Weld County, Hydrologic Unit 10190008, on left bank upstream from bridge on Weld County Road 126, at the east end of Carr.
DRAINAGE AREA.--167 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1993 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Concrete control since Sept. 2, 1993. Elevation of gage is 5,670 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 9 to Feb. 23, Mar. 2-8, and Aug. 21 to Sept. 12. Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	.44	.32	.29	.31	.42	.46	.71	1.4	1.4	.77	.31
2	.37	.62	.31	.30	.31	.42	.43	.56	1.4	1.3	.68	.32
3	.51	.62	.31	.29	.30	.43	.44	.81	1.9	1.2	.58	.33
4	4.7	.66	.30	.30	.30	.43	.43	.72	1.7	1.3	.59	.34
5	1.3	.68	.31	.28	.27	.42	.42	.55	2.7	1.3	.66	.31
6	.74	.68	.30	.30	.27	.42	.40	.57	1.6	1.2	.76	.29
7	.46	.68	.30	.33	.26	.42	.41	.71	1.4	1.1	.62	.26
8	.37	.67	.30	.36	.26	.45	.39	.97	1.9	1.0	.53	.28
9	.32	.64	.29	.39	.27	.48	.37	.79	3.2	1.0	.46	.30
10	.27	.60	.29	.41	.27	.48	.39	.61	4.4	1.0	.46	.33
11	.27	.53	.29	.42	.28	.48	.44	.60	5.0	.93	.45	.34
12	.25	.50	.29	.38	.28	.46	.48	.59	3.0	.83	.44	.32
13	.24	.45	.29	.34	.29	.42	.46	.59	2.1	.83	.44	.27
14	.25	.40	.30	.33	.30	.42	.43	.54	1.6	2.8	.40	.25
15	.38	.37	.33	.32	.31	.42	.42	.55	1.3	3.6	.41	.24
16	.58	.35	.32	.32	.32	.42	.42	.54	1.2	1.4	.41	.22
17	.64	.34	.32	.32	.34	.42	.54	1.8	1.1	1.2	.37	.21
18	.66	.34	.32	.31	.39	.43	.60	1.4	1.5	1.3	.35	.28
19	.54	.34	.31	.32	.60	.43	.55	1.2	1.2	1.2	.32	.74
20	.47	.34	.29	.34	.58	.41	.55	1.4	1.1	1.4	.34	.78
21	.43	.34	.27	.33	.50	.44	.52	1.2	1.0	1.4	.35	.68
22	.39	.34	.27	.33	.46	.42	.49	1.0	1.1	1.4	.35	.72
23	.39	.34	.28	.33	.45	.36	.48	.98	1.3	1.1	.36	.61
24	.42	.33	.30	.34	.44	.39	.48	1.1	1.4	1.0	.37	.54
25	.42	.33	.29	.32	.44	.37	.48	1.3	1.4	.88	.37	.54
26	.43	.34	.29	.32	.44	.37	.46	1.7	1.1	.80	.35	.53
27	.45	.33	.28	.32	.42	.34	.48	1.5	1.0	.70	.35	.49
28	.42	.32	.28	.32	.42	.42	.49	1.2	1.1	.64	.33	.48
29	.37	.32	.29	.32	---	.42	.54	1.4	1.5	.60	.33	.52
30	.37	.31	.30	.33	---	.46	.78	2.2	1.4	.57	.32	.54
31	.42	---	.30	.34	---	.48	---	1.9	---	.69	.31	---
TOTAL	18.09	13.55	9.24	10.25	10.08	13.15	14.23	31.69	53.0	37.07	13.83	12.37
MEAN	.58	.45	.30	.33	.36	.42	.47	1.02	1.77	1.20	.45	.41
MAX	4.7	.68	.33	.42	.60	.48	.78	2.2	5.0	3.6	.77	.78
MIN	.24	.31	.27	.28	.26	.34	.37	.54	1.0	.57	.31	.21
AC-FT	36	27	18	20	20	26	28	63	105	74	27	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	.57	.49	.38	.36	.44	.61	.68	.72	.99	.56	.25	.30
MAX	.58	.53	.45	.38	.52	.80	.81	1.02	1.77	1.20	.45	.41
(WY)	1995	1994	1994	1994	1994	1994	1993	1995	1995	1995	1995	1995
MIN	.56	.45	.30	.33	.36	.42	.47	.46	.47	.11	.15	.14
(WY)	1994	1995	1995	1995	1995	1995	1995	1993	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1993 - 1995
ANNUAL TOTAL	162.16	236.55	--
ANNUAL MEAN	.44	.65	.55
HIGHEST ANNUAL MEAN	--	--	.65
LOWEST ANNUAL MEAN	--	--	.46
HIGHEST DAILY MEAN	4.7 Oct 4	5.0 Jun 11	5.0 Jun 11 1995
LOWEST DAILY MEAN	.02 Jul 11	.21 Sep 17	.02 Jul 31 1993
ANNUAL SEVEN-DAY MINIMUM	.04 Jul 7	.26 Sep 12	.03 Jul 28 1993
INSTANTANEOUS PEAK FLOW	14 Oct 4	14 Oct 4	14 Oct 4 1994
INSTANTANEOUS PEAK STAGE	5.46 Oct 4	5.46 Oct 4	5.46 Oct 4 1994
ANNUAL RUNOFF (AC-FT)	322	469	402
10 PERCENT EXCEEDS	.79	1.3	.95
50 PERCENT EXCEEDS	.38	.43	.43
90 PERCENT EXCEEDS	.10	.29	.15

a Also occurred July 11, 1994.

06753400 LONETREE CREEK AT CARR, CO--Continued
(National Water-Quality Assessment Program station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1993 to September 1995 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	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)
OCT										
12...	1130	0.27	469	8.0	10.5	10.4	200	61	11	19
NOV										
23...	0900	0.34	679	8.1	1.0	10.5	260	80	15	29
DEC										
13...	1410	0.31	610	8.2	3.0	10.9	250	77	15	26
JAN										
05...	1400	0.28	572	8.0	0.5	11.2	240	73	13	24
FEB										
16...	1110	0.32	555	8.1	1.0	11.7	230	71	13	25
MAR										
16...	0845	0.42	519	8.0	7.5	9.1	220	66	13	25
APR										
10...	1500	0.37	512	8.2	4.0	11.2	210	64	13	24
MAY										
08...	1210	0.98	523	8.0	9.5	9.7	220	67	13	27
JUN										
06...	1100	1.6	575	8.0	18.5	7.6	230	68	15	29
JUL										
05...	1030	1.4	602	8.1	15.5	7.5	240	72	15	28

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- ^A LINITY WAT DIS TOT FET 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)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT										
12...	6.8	193	32	10	0.7	22	299	<0.01	0.30	0.03
NOV										
23...	6.3	240	31	16	0.8	28	384	<0.01	0.33	0.02
DEC										
13...	9.3	259	27	14	0.8	26	353	0.01	0.49	<0.01
JAN										
05...	5.4	259	23	13	0.7	26	347	<0.01	0.49	0.02
FEB										
16...	5.4	250	22	13	0.7	23	335	<0.01	0.46	0.02
MAR										
16...	5.2	225	22	13	0.7	20	306	<0.01	0.16	<0.01
APR										
10...	5.3	220	20	12	0.8	21	310	0.01	0.21	0.02
MAY										
08...	6.0	224	18	14	0.7	22	316	<0.01	0.08	0.03
JUN										
06...	6.8	249	20	16	0.7	26	354	<0.01	0.05	0.02
JUL										
05...	6.3	251	21	18	0.7	26	373	<0.01	0.09	0.02

A Total alkalinity, determined in field by fixed end-point titration method on filtered sample.

PLATTE RIVER BASIN

06753400 LONETREE CREEK AT CARR, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (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)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
OCT									
12...	0.30	0.30	0.02	<0.01	<0.01	48	15	4.7	0.3
NOV									
23...	0.20	<0.20	<0.01	<0.01	<0.01	37	17	2.9	0.2
DEC									
13...	<0.20	<0.20	<0.01	0.02	<0.01	35	23	2.7	0.2
JAN									
05...	<0.20	<0.20	<0.01	<0.01	<0.01	29	24	2.1	0.1
FEB									
16...	<0.20	<0.20	<0.01	<0.01	0.01	40	24	2.2	0.2
MAR									
16...	0.20	<0.20	<0.01	<0.01	<0.01	31	12	2.6	0.3
APR									
10...	0.30	<0.20	0.01	<0.01	<0.01	40	21	2.6	0.5
MAY									
08...	0.30	0.30	0.01	<0.01	<0.01	47	24	4.4	0.3
JUN									
06...	0.40	0.20	<0.01	<0.01	<0.01	59	28	6.1	0.4
JUL									
05...	0.50	0.30	<0.01	<0.01	<0.01	12	15	5.6	0.4

06755800 CROW CREEK AT ROUND TOP ROAD, NEAR CHEYENNE, WY

LOCATION.--Lat 41°09'30", long 104°52'44", in SW¹/₄ NE¹/₄ NW¹/₄ sec.27, T.14 N., R.67 W., Laramie County, Hydrologic Unit 10190009, at west edge of F. E. Warren AFB, at bridge on Round Top Road, 1.1 mi upstream from Diamond Creek, and 3 mi northwest of Cheyenne.

DRAINAGE AREA.--239 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 6,140 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-4, Nov. 3-28, Dec. 3-12, and Feb. 10 to Apr. 6. Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.29	.09	.02	.05	.35	.32	1.1	15	53	6.0	.24
2	.24	.43	.10	.02	.05	.33	.30	1.1	65	62	5.7	.20
3	.22	.40	.10	.02	.05	.36	.34	1.6	58	46	4.5	.19
4	.19	.35	.10	.01	.04	.40	.27	1.7	63	38	4.1	.20
5	.15	.40	.11	.02	.09	.38	.23	1.7	67	32	4.1	.17
6	.10	.45	.12	.02	.11	.35	.21	1.8	65	29	4.3	.15
7	.11	.54	.12	.02	.19	.35	.21	1.8	58	25	4.3	.15
8	.12	.51	.10	.02	.34	.38	.19	2.1	106	21	3.8	.16
9	.14	.45	.10	.02	.40	.42	.18	2.1	151	19	3.3	.17
10	.18	.50	.09	.03	.38	.47	.20	2.2	128	17	2.9	.17
11	.16	.54	.10	.03	.35	.50	.21	2.1	118	16	2.2	.18
12	.20	.52	.12	.02	.30	.47	.25	2.2	104	15	2.6	.19
13	.30	.46	.11	.01	.32	.45	.27	2.3	86	15	2.2	.19
14	.31	.40	.12	.01	.35	.47	.28	2.0	70	15	1.9	.19
15	.65	.35	.12	.02	.36	.49	.30	1.9	53	17	1.8	.19
16	.92	.40	.10	.02	.40	.47	.31	1.9	46	19	1.7	.20
17	1.1	.35	.11	.01	.42	.45	.36	2.8	41	16	1.5	.20
18	.65	.30	.09	.01	.44	.48	.41	3.2	59	14	1.3	.24
19	.92	.33	.03	.02	.45	.45	.44	2.8	64	14	1.2	.28
20	.82	.36	.02	.01	.46	.43	.46	2.7	60	14	1.1	.28
21	.77	.30	.02	.01	.45	.50	.51	2.5	51	14	1.0	.28
22	.65	.25	.02	.01	.43	.45	.59	2.3	42	13	.92	.28
23	.49	.28	.02	.01	.43	.40	.67	2.3	34	11	.80	.30
24	.37	.30	.01	.02	.45	.35	.71	2.3	32	10	.69	.30
25	.36	.26	.01	.02	.47	.35	.75	2.3	36	9.0	.61	.33
26	.32	.20	.01	.02	.46	.30	.77	2.2	36	8.3	.49	.32
27	.28	.14	.02	.02	.40	.28	.80	2.2	33	7.7	.43	.37
28	.25	.10	.02	.02	.37	.27	.84	2.1	34	7.2	.33	.32
29	.28	.07	.01	.02	---	.26	.89	2.1	34	6.6	.30	.61
30	.32	.09	.02	.02	---	.28	1.0	2.1	39	6.0	.27	.93
31	.24	---	.02	.03	---	.30	---	2.1	---	5.7	.25	---
TOTAL	12.03	10.32	2.13	0.56	9.01	12.19	13.27	65.6	1848	595.5	66.59	7.98
MEAN	.39	.34	.069	.018	.32	.39	.44	2.12	61.6	19.2	2.15	.27
MAX	1.1	.54	.12	.03	.47	.50	1.0	3.2	151	62	6.0	.93
MIN	.10	.07	.01	.01	.04	.26	.18	1.1	15	5.7	.25	.15
AC-FT	24	20	4.2	1.1	18	24	26	130	3670	1180	132	16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1994	1995	1995	1995	1995	1995
MEAN	.39	.34	.069	.018	.32	.39	1.32	1.49	30.9	9.70	1.13	.22
MAX	.39	.34	.069	.018	.32	.39	2.20	2.12	61.6	19.2	2.15	.27
(WY)	1995	1995	1995	1995	1995	1995	1994	1995	1995	1995	1995	1995
MIN	.39	.34	.069	.018	.32	.39	.44	.86	.19	.19	.12	.18
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994

SUMMARY STATISTICS

	FOR 1995 WATER YEAR	WATER YEARS 1994 - 1995
ANNUAL TOTAL	2643.18	--
ANNUAL MEAN	7.24	7.24
HIGHEST ANNUAL MEAN	--	7.24
LOWEST ANNUAL MEAN	--	7.24
HIGHEST DAILY MEAN	151	151
LOWEST DAILY MEAN	.01	.01
ANNUAL SEVEN-DAY MINIMUM	.01	.01
INSTANTANEOUS PEAK FLOW	163	163
INSTANTANEOUS PEAK STAGE	6.24	6.24
ANNUAL RUNOFF (AC-FT)	5240	5250
10 PERCENT EXCEEDS	23	8.3
50 PERCENT EXCEEDS	.40	.32
90 PERCENT EXCEEDS	.02	.04

06755840 DIAMOND CREEK BELOW ROUND TOP ROAD, AT F.E. WARREN AIR FORCE BASE, WY

LOCATION.--Lat 41°08'38", long 104°52'46", in NW¹/₄ NE¹/₄ NW¹/₄ sec.34, T.14 N., R.67 W., Laramie County, Hydrologic Unit 10190009, F.E. Warren Air Force Base, on right bank 0.25 mi downstream from Round Top Road.

DRAINAGE AREA.--10.75 mi².

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

GAGE.--Water-stage recorder and V-notch weir. Elevation of gage is 6,160 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 29 to Dec. 2, Dec. 5-10, 18, Dec. 21 to Jan. 5, Jan. 9-11, 14-21, 24-27, Jan. 30 to Feb. 2, Feb. 4, and Feb. 6 to Mar. 19. Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.02	.01	.00	.01	.00	.02	.01	2.3	1.8	.04	.01
2	.01	.02	.02	.00	.00	.00	.01	.19	1.7	1.9	.06	.03
3	.06	.02	.02	.00	.00	.00	.01	.64	1.7	2.0	.05	.04
4	.04	.02	.02	.00	.01	.00	.01	.09	1.6	1.4	.06	.03
5	.02	.03	.02	.00	.01	.00	.01	.09	1.8	.79	.05	.02
6	.02	.03	.02	.00	.01	.00	.05	.40	1.5	.45	.04	.02
7	.02	.02	.02	.00	.01	.00	.01	.34	1.5	.25	.04	.03
8	.02	.02	.02	.00	.01	.00	.01	.36	2.1	.13	.03	.03
9	.02	.02	.01	.01	.01	.00	.01	.07	3.3	.05	.02	.03
10	.02	.02	.01	.02	.01	.00	.00	.02	3.5	.03	.03	.02
11	.02	.02	.00	.01	.00	.01	.02	.01	2.9	.01	.15	.02
12	.02	.02	.00	.01	.00	.01	.05	.33	2.3	.00	.06	.01
13	.02	.01	.00	.02	.00	.01	.03	.03	1.6	.00	.03	.01
14	.02	.01	.00	.02	.00	.01	.00	.04	1.1	.01	.03	.01
15	.04	.01	.00	.02	.00	.01	.00	.02	.76	.01	.03	.01
16	.03	.01	.00	.02	.01	.01	.00	.03	.55	.01	.02	.01
17	.04	.01	.00	.01	.01	.01	.00	1.9	.46	.01	.02	.01
18	.03	.01	.00	.01	.01	.01	.00	.42	.65	.02	.02	.02
19	.02	.01	.00	.01	.01	.01	.00	.11	.17	.03	.02	.06
20	.02	.00	.00	.01	.02	.01	.00	.28	.77	.03	.02	.06
21	.02	.00	.00	.00	.02	.01	.00	.14	.58	.05	.02	.03
22	.02	.00	.00	.00	.01	.00	.00	.01	.47	.05	.02	.03
23	.02	.00	.00	.00	.01	.00	.00	.03	.49	.05	.02	.03
24	.02	.01	.00	.01	.01	.00	.00	.05	.54	.04	.03	.03
25	.02	.01	.00	.01	.01	.00	.00	.03	.61	.04	.02	.03
26	.02	.01	.00	.01	.00	.00	.00	.03	.58	.02	.02	.03
27	.02	.01	.00	.01	.00	.00	.00	.28	.69	.04	.02	.02
28	.02	.00	.00	.01	.00	.00	.00	.68	1.1	.03	.02	.02
29	.02	.00	.00	.01	---	.01	.01	.97	1.6	.04	.02	.02
30	.02	.01	.00	.01	---	.01	.04	1.6	1.8	.01	.01	.03
31	.02	---	.00	.01	---	.01	---	2.4	---	.01	.01	---
TOTAL	0.72	0.38	0.17	0.25	0.20	0.14	0.29	11.60	40.72	9.31	1.03	0.75
MEAN	.023	.013	.005	.008	.007	.005	.010	.37	1.36	.30	.033	.025
MAX	.06	.03	.02	.02	.02	.01	.05	2.4	3.5	2.0	.15	.06
MIN	.01	.00	.00	.00	.00	.00	.00	.01	.17	.00	.01	.01
AC-FT	1.4	.8	.3	.5	.4	.3	.6	23	81	18	2.0	1.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1995	1995	1994	1995	1995	1994
MEAN	.023	.013	.005	.008	.007	.005	.11	.40	.69	.15	.017	.014
MAX	.023	.013	.005	.008	.007	.005	.20	.43	1.36	.30	.033	.025
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1995	1995	1995	1995
MIN	.023	.013	.005	.008	.007	.005	.010	.37	.028	.000	.001	.003
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994

SUMMARY STATISTICS

	FOR 1995 WATER YEAR	WATER YEARS 1994 - 1995
ANNUAL TOTAL	65.56	--
ANNUAL MEAN	.18	.18
HIGHEST ANNUAL MEAN	--	.18 1995
LOWEST ANNUAL MEAN	--	.18 1995
HIGHEST DAILY MEAN	3.5 Jun 10	3.5 Jun 10 1995
LOWEST DAILY MEAN	.00 Many days	.00 Many days, most years
ANNUAL SEVEN-DAY MINIMUM	.00 Dec 11	.00 Jun 25 1994
INSTANTANEOUS PEAK FLOW	3.6 Jun 9	3.6 Jun 9 1995
INSTANTANEOUS PEAK STAGE	1.88 Jun 9	1.88 Jun 9 1995
ANNUAL RUNOFF (AC-FT)	130	130
10 PERCENT EXCEEDS	.54	.49
50 PERCENT EXCEEDS	.02	.02
90 PERCENT EXCEEDS	.00	.00

06755860 DIAMOND CREEK AT F.E. WARREN AIR FORCE BASE, WY

LOCATION.--Lat 41°08'51", long 104°52'22", in SE¹/₄ sec.27, T.14 N., R.67 W., Laramie County, Hydrologic Unit 10190009, F.E. Warren Air Force Base, on left bank 0.3 mi upstream from Missile Drive and 0.35 mi upstream from mouth.

DRAINAGE AREA.--10.8 mi².

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

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 6,140 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 27, 28, Dec. 8-11, 23, Dec. 27 to Jan. 7, Jan. 17-19, 21-25, and Feb. 10, 14, 17. Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.06	.10	.06	.07	.13	.10	.11	1.6	2.2	.12	.05
2	.08	.07	.10	.06	.10	.13	.10	.51	1.6	1.6	.09	.26
3	.87	.10	.10	.06	.08	.16	.10	.80	1.4	1.5	.08	.14
4	.38	.11	.10	.06	.08	.17	.10	.17	1.2	1.2	.07	.07
5	.15	.12	.10	.07	.09	.15	.10	.15	1.2	.84	.06	.06
6	.11	.10	.11	.07	.09	.13	.10	.44	1.1	.61	.06	.07
7	.08	.10	.11	.06	.09	.13	.10	.74	1.9	.46	.04	.07
8	.07	.13	.08	.05	.10	.12	.10	.55	2.0	.37	.06	.22
9	.06	.13	.07	.06	.11	.11	.09	.22	4.0	.32	.08	.10
10	.06	.12	.05	.07	.11	.11	.09	.17	3.9	.28	.04	.08
11	.06	.10	.03	.07	.11	.12	.13	.14	2.6	.24	.52	.08
12	.06	.11	.04	.07	.11	.13	.11	.52	1.6	.20	.20	.07
13	.06	.11	.03	.06	.09	.12	.11	.22	1.2	.20	.09	.06
14	.06	.10	.02	.07	.09	.11	.11	.15	.94	.39	.09	.06
15	.36	.10	.03	.08	.08	.11	.10	.15	.74	.25	.10	.06
16	.18	.09	.02	.09	.11	.11	.10	.18	.60	.18	.08	.05
17	.26	.10	.03	.09	.18	.11	.20	3.0	.96	.17	.06	.06
18	.13	.10	.03	.08	.21	.11	.15	.54	.85	.17	.07	.27
19	.09	.09	.04	.07	.21	.11	.13	.33	.41	.19	.06	.53
20	.07	.09	.04	.07	.23	.11	.13	.53	.56	.19	.06	.47
21	.06	.09	.04	.07	.17	.11	.27	.33	.58	.18	.06	.19
22	.06	.09	.05	.06	.15	.10	.15	.23	.74	.15	.06	.15
23	.06	.07	.06	.05	.15	.10	.14	.35	.71	.13	.07	.13
24	.06	.07	.06	.05	.15	.10	.11	.29	.63	.12	.20	.11
25	.06	.08	.06	.05	.15	.10	.09	.35	.61	.11	.09	.10
26	.06	.09	.06	.05	.15	.10	.12	.36	.58	.10	.07	.09
27	.06	.08	.07	.05	.15	.11	.13	.35	1.2	.09	.06	.09
28	.06	.06	.07	.04	.16	.11	.10	.51	1.2	.08	.07	.09
29	.06	.03	.06	.04	---	.11	.13	.83	1.2	.08	.08	.18
30	.06	.07	.07	.04	---	.10	.24	1.4	1.3	.10	.07	.14
31	.06	---	.06	.04	---	.11	---	1.7	---	.12	.05	---
TOTAL	3.92	2.76	1.89	1.91	3.57	3.63	3.73	16.32	39.11	12.82	2.91	4.20
MEAN	.13	.092	.061	.062	.13	.12	.12	.53	1.30	.41	.094	.14
MAX	.87	.13	.11	.09	.23	.17	.27	3.0	4.0	2.2	.52	.53
MIN	.06	.03	.02	.04	.07	.10	.09	.11	.41	.08	.04	.05
AC-FT	7.8	5.5	3.7	3.8	7.1	7.2	7.4	32	78	25	5.8	8.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	.12	.099	.091	.089	.12	.18	.29	.34	.49	.16	.093	.097
MAX	.16	.10	.11	.11	.13	.28	.45	.53	1.30	.41	.11	.14
(WY)	1994	1993	1994	1994	1995	1994	1993	1995	1995	1995	1993	1995
MIN	.075	.092	.061	.062	.12	.12	.12	.17	.052	.047	.063	.051
(WY)	1993	1995	1995	1995	1993	1995	1995	1993	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1992 - 1995
ANNUAL TOTAL	49.21	96.77	--
ANNUAL MEAN	.13	.27	.19
HIGHEST ANNUAL MEAN	--	--	.27
LOWEST ANNUAL MEAN	--	--	.14
HIGHEST DAILY MEAN	.98 May 15	4.0 Jun 9	4.0 Jun 9 1995
LOWEST DAILY MEAN	.01 Jun 26	.02 Dec 14, 16	.01 Jun 26-Jul 2, 1994
ANNUAL SEVEN-DAY MINIMUM	.01 Jun 26	.03 Dec 11	.01 Jun 26 1994
INSTANTANEOUS PEAK FLOW	--	13 Oct 3	13 Oct 3 1994
INSTANTANEOUS PEAK STAGE	--	2.84 Oct 3	2.84 Oct 3 1994
ANNUAL RUNOFF (AC-FT)	98	192	140
10 PERCENT EXCEEDS	.30	.62	.35
50 PERCENT EXCEEDS	.09	.10	.10
90 PERCENT EXCEEDS	.03	.06	.05

PLATTE RIVER BASIN

06755880 DIAMOND CREEK AT MOUTH, AT F.E. WARREN AIR FORCE BASE, WY

LOCATION.--Lat 41°08'56", long 104°52'06", in SE¹/₄ sec.27, T.14 N., R.67 W., Laramie County, Hydrologic Unit

10190009, F.E. Warren Air Force Base, on right bank 60 ft upstream from Missile Drive and 300 ft from mouth.

DRAINAGE AREA.--10.9 mi².

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

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 6,120 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 16 to Feb. 25 and Mar. 2-5, 28-30. Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.09	.10	.08	.08	.19	.19	.24	1.7	2.0	.09	.06
2	.10	.09	.13	.08	.10	.18	.18	.55	1.6	1.7	.06	.25
3	.22	.12	.12	.08	.09	.17	.18	1.1	1.6	1.5	.07	.25
4	.51	.13	.11	.06	.11	.17	.18	.36	1.3	1.2	.07	.13
5	.19	.14	.10	.08	.13	.17	.18	.31	1.3	.87	.07	.11
6	.17	.14	.11	.07	.13	.18	.17	.62	1.3	.65	.06	.13
7	.15	.13	.10	.08	.13	.20	.19	.85	1.8	.50	.06	.15
8	.15	.13	.09	.07	.11	.22	.20	.81	2.3	.39	.07	.39
9	.14	.15	.08	.08	.12	.16	.19	.42	3.4	.33	.11	.11
10	.13	.15	.07	.10	.14	.18	.18	.35	3.4	.30	.05	.08
11	.13	.14	.06	.10	.12	.19	.20	.31	2.5	.24	.51	.07
12	.13	.14	.04	.10	.11	.20	.23	.62	1.8	.20	.27	.06
13	.13	.13	.03	.10	.10	.18	.23	.42	1.4	.19	.11	.05
14	.13	.12	.03	.11	.09	.17	.21	.32	1.1	.40	.09	.05
15	.27	.12	.02	.12	.09	.18	.20	.30	.89	.28	.09	.05
16	.21	.10	.02	.13	.11	.18	.20	.27	.76	.19	.08	.05
17	.25	.11	.03	.13	.19	.18	.28	2.7	.93	.18	.08	.06
18	.19	.11	.04	.09	.21	.17	.25	.68	1.1	.17	.09	.27
19	.14	.10	.05	.08	.21	.16	.24	.50	.59	.18	.08	.68
20	.11	.10	.05	.10	.22	.16	.22	.72	.64	.16	.09	.58
21	.10	.10	.05	.09	.20	.16	.35	.54	.70	.14	.08	.27
22	.09	.10	.06	.08	.18	.16	.28	.40	.83	.12	.08	.19
23	.09	.10	.07	.07	.18	.16	.25	.54	.82	.10	.08	.16
24	.08	.09	.07	.07	.20	.16	.21	.49	.73	.09	.19	.16
25	.08	.10	.07	.07	.23	.16	.19	.56	.70	.08	.11	.14
26	.08	.11	.07	.07	.23	.16	.20	.58	.67	.05	.08	.13
27	.09	.12	.07	.07	.21	.16	.22	.56	1.0	.04	.08	.13
28	.09	.11	.07	.07	.20	.16	.22	.70	1.3	.04	.08	.13
29	.09	.05	.07	.07	---	.17	.20	.99	1.3	.04	.08	.23
30	.09	.07	.06	.07	---	.18	.41	1.5	1.3	.05	.07	.20
31	.09	---	.06	.06	---	.18	---	1.7	---	.08	.06	---
TOTAL	4.51	3.39	2.10	2.63	4.22	5.40	6.63	21.01	40.76	12.46	3.19	5.32
MEAN	.15	.11	.068	.085	.15	.17	.22	.68	1.36	.40	.10	.18
MAX	.51	.15	.13	.13	.23	.22	.41	2.7	3.4	2.0	.51	.68
MIN	.08	.05	.02	.06	.08	.16	.17	.24	.59	.04	.05	.05
AC-FT	8.9	6.7	4.2	5.2	8.4	11	13	42	81	25	6.3	11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	.15	.13	.11	.11	.14	.22	.32	.39	.53	.15	.090	.12
MAX	.19	.15	.13	.12	.15	.31	.47	.68	1.36	.40	.13	.18
(WY)	1994	1993	1994	1994	1995	1994	1993	1995	1995	1995	1993	1995
MIN	.11	.11	.068	.085	.12	.17	.22	.18	.073	.043	.042	.057
(WY)	1993	1995	1995	1995	1993	1995	1995	1993	1994	1994	1994	1992

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1992 - 1995
ANNUAL TOTAL	53.15	111.62	---
ANNUAL MEAN	.15	.31	.22
HIGHEST ANNUAL MEAN	---	---	.31 1995
LOWEST ANNUAL MEAN	---	---	.16 1994
HIGHEST DAILY MEAN	1.1 May 13	3.4 Jun 9,10	3.4 Jun 9,10 1995
LOWEST DAILY MEAN	.01 Jul 27-30, Aug 7-9, 12, 15-17,21,23	.02 Dec 15, 16	.01 Aug 8,9 1992; Jul 28,29, Aug 1, 1993; Jul 27-30, Aug 7-9,12, 15-17, 21,23, 1994 Aug 15 1994
ANNUAL SEVEN-DAY MINIMUM	.01 Aug 15	.03 Dec 12	.01 Aug 15 1994
INSTANTANEOUS PEAK FLOW	---	9.3 Jun 7	9.3 Jun 7 1995
INSTANTANEOUS PEAK STAGE	---	2.60 Jun 7	2.60 Jun 7 1995
ANNUAL RUNOFF (AC-FT)	105	221	159
10 PERCENT EXCEEDS	.30	.74	.41
50 PERCENT EXCEEDS	.11	.14	.13
90 PERCENT EXCEEDS	.03	.07	.05

PLATTE RIVER BASIN

219

06755950 CROW CREEK AT F.E. WARREN AIR FORCE BASE, WY

LOCATION.--Lat 41°08'02", long 104°50'25", in NE¹/₄ NW¹/₄ SW¹/₄ sec.36, T.14 N., R.67 W., Laramie County, Hydrologic Unit 10190009, 1,400 ft upstream from bridge on U.S. Interstate 25, 0.2 mi southeast of Gate No. 1 of F.E. Warren AFB, and 2 mi downstream from mouth of Diamond Creek.

DRAINAGE AREA.--253 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,070 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 1-8, Oct. 13 to July 5, July 14, 19, and Sept. 7, 18. Records poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	1.3	1.3	.96	1.4	1.3	1.2	2.1	27	56	7.5	1.0
2	4.0	1.5	1.3	.94	1.6	1.2	1.3	3.0	78	62	6.6	1.2
3	5.6	1.5	1.3	.92	1.5	1.3	1.3	9.4	76	54	5.0	2.1
4	2.4	1.2	1.3	.94	1.4	1.4	1.4	3.3	72	47	5.0	1.6
5	1.8	1.2	1.4	1.0	1.5	1.4	1.5	2.8	74	41	4.7	1.4
6	1.4	1.2	1.4	1.1	1.5	1.3	1.6	3.5	72	37	4.3	1.1
7	1.5	1.2	1.3	1.2	1.6	1.1	1.7	11	70	32	3.8	1.2
8	1.4	1.3	1.3	1.3	1.6	1.2	1.6	7.1	76	28	3.3	1.8
9	1.4	1.3	1.3	1.4	1.5	1.3	1.5	4.4	105	24	3.0	1.9
10	1.4	1.4	1.3	1.5	1.4	1.4	1.4	3.6	98	21	2.7	1.6
11	1.5	1.4	1.2	1.5	1.2	1.5	1.4	3.3	94	18	3.9	1.5
12	1.2	1.5	1.3	1.4	1.1	1.4	1.4	7.0	88	16	3.5	1.3
13	1.4	1.4	1.3	1.5	1.1	1.3	1.6	3.5	80	15	2.2	1.2
14	1.6	1.4	1.2	1.6	1.1	1.3	1.5	2.9	70	16	1.7	1.1
15	3.3	1.3	1.2	1.7	1.2	1.3	1.5	2.6	68	18	1.6	1.0
16	2.2	1.3	1.3	1.5	1.3	1.4	1.4	3.1	64	20	1.6	1.0
17	3.2	1.2	1.4	1.4	1.4	1.3	1.5	38	60	19	1.5	.97
18	1.9	1.2	1.3	1.3	1.5	1.3	1.6	11	64	17	1.4	1.3
19	1.7	1.2	1.3	1.2	1.7	1.3	1.7	9.2	74	17	1.4	2.7
20	1.5	1.2	1.3	1.2	1.9	1.2	1.8	11	70	17	1.3	3.7
21	1.5	1.2	1.3	1.3	2.0	1.2	2.8	8.4	66	17	1.3	2.1
22	1.5	1.3	1.2	1.4	1.9	1.1	2.1	7.6	62	17	1.3	1.8
23	1.4	1.2	1.2	1.3	1.7	1.1	2.0	8.4	56	16	1.3	1.6
24	1.4	1.2	1.2	1.3	1.7	1.1	1.9	8.0	52	14	1.7	1.6
25	1.4	1.2	1.3	1.4	1.5	1.2	1.7	8.4	50	13	1.7	1.5
26	1.5	1.3	1.3	1.4	1.5	1.1	1.9	9.0	54	11	1.4	1.5
27	1.5	1.4	1.3	1.4	1.5	1.2	2.2	8.2	50	9.3	1.3	1.7
28	1.3	1.4	1.2	1.3	1.4	1.2	2.0	7.4	56	8.2	1.2	1.8
29	1.4	1.4	1.2	1.4	---	1.2	2.0	8.2	54	7.2	1.2	2.4
30	1.5	1.4	1.1	1.3	---	1.2	2.9	12	52	6.6	1.1	1.9
31	1.5	---	1.0	1.3	---	1.2	---	10	---	7.8	1.0	---
TOTAL	59.6	39.2	39.3	40.36	41.7	39.0	51.4	237.4	2032	702.1	80.5	48.57
MEAN	1.92	1.31	1.27	1.30	1.49	1.26	1.71	7.66	67.7	22.6	2.60	1.62
MAX	5.6	1.5	1.4	1.7	2.0	1.5	2.9	38	105	62	7.5	3.7
MIN	1.2	1.2	1.0	.92	1.1	1.1	1.2	2.1	27	6.6	1.0	.97
AC-FT	118	78	78	80	83	77	102	471	4030	1390	160	96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1994	1995	1995	1995	1995	1995
MEAN	1.92	1.31	1.27	1.30	1.49	1.26	2.64	5.11	34.2	11.6	1.67	1.75
MAX	1.92	1.31	1.27	1.30	1.49	1.26	3.57	7.66	67.7	22.6	2.60	1.88
(WY)	1995	1995	1995	1995	1995	1995	1994	1995	1995	1995	1995	1994
MIN	1.92	1.31	1.27	1.30	1.49	1.26	1.71	2.56	.68	.59	.75	1.62
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1995

SUMMARY STATISTICS

	FOR 1995 WATER YEAR	WATER YEARS 1994 - 1995
ANNUAL TOTAL	3411.13	--
ANNUAL MEAN	9.35	9.35
HIGHEST ANNUAL MEAN	--	9.35
LOWEST ANNUAL MEAN	--	9.35
HIGHEST DAILY MEAN	105	105
LOWEST DAILY MEAN	.92	.38
INSTANTANEOUS PEAK FLOW	a	a
INSTANTANEOUS PEAK STAGE	a	a
ANNUAL SEVEN-DAY MINIMUM	.98	.42
ANNUAL RUNOFF (AC-FT)	6770	6770
10 PERCENT EXCEEDS	34	13
50 PERCENT EXCEEDS	1.5	1.5
90 PERCENT EXCEEDS	1.2	.59

a Not determined, probably occurred June 9 during a period of estimated record.

PLATTE RIVER BASIN

06755960 CROW CREEK AT 19TH STREET, AT CHEYENNE, WY

LOCATION.--Lat 41°07'52", long 104°49'41", in NW¹/4 NW¹/4 NW¹/4 sec.6, T.13 N., R.66 W., Laramie County, Hydrologic Unit 10190009, on right bank at upstream side of 19th Street, at Cheyenne, and 0.5 mi upstream from Clear Creek.

DRAINAGE AREA.--257 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,050 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 18-24, 27, Dec. 8-21, 23, Dec. 27 to Jan. 10, Jan 12, 14-24, 28-30, Feb. 2-4, 10-21, and Feb.27 to Mar. 3. Records good except those for estimated daily discharges, which area poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 20, 1904, stage unknown, estimated 8,500 ft³/s; flood of August 1, 1985, reached a stage of 9.6 ft, present datum, from floodmarks, discharge, 2,980 ft³/s, on basis of indirect measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	1.4	1.5	1.2	1.4	1.6	1.4	2.3	31	58	8.8	1.7
2	4.0	1.6	1.4	1.2	1.5	1.8	1.4	8.4	91	78	8.2	4.6
3	8.9	2.0	1.4	1.3	1.6	2.0	1.4	13	80	68	6.9	3.1
4	6.5	1.3	1.4	1.3	1.6	2.0	1.4	4.1	78	59	6.4	2.1
5	3.1	1.3	1.5	1.3	1.7	2.0	1.3	3.1	80	52	6.4	2.0
6	1.6	1.3	1.6	1.4	1.5	2.0	1.4	4.8	78	45	6.0	1.9
7	1.7	1.3	1.5	1.5	1.5	1.9	1.4	15	78	43	5.1	2.0
8	1.3	1.8	1.3	1.6	1.7	1.8	1.3	11	95	37	4.4	5.5
9	1.1	1.7	1.3	1.7	1.8	1.7	1.4	5.6	118	32	4.1	2.8
10	1.3	1.5	1.2	1.8	1.7	1.7	1.6	4.1	106	28	4.0	2.2
11	1.6	1.5	1.3	2.0	1.5	1.7	1.9	3.4	101	23	8.4	2.0
12	1.6	1.6	1.4	1.9	1.3	1.7	1.6	9.8	94	20	4.4	1.8
13	1.7	1.5	1.4	1.8	1.2	1.7	1.7	4.5	88	17	3.0	1.9
14	1.7	1.5	1.3	1.7	1.2	1.7	1.5	3.1	80	18	2.6	1.8
15	5.2	1.4	1.4	1.6	1.2	1.6	1.6	2.7	71	20	2.4	1.8
16	3.0	1.4	1.5	1.4	1.3	1.7	1.7	3.5	68	25	2.3	1.8
17	4.7	1.3	1.4	1.4	1.4	1.6	2.5	50	62	22	2.2	1.9
18	2.7	1.3	1.3	1.4	1.6	1.5	2.0	18	69	19	2.1	4.9
19	2.1	1.3	1.3	1.5	1.8	1.5	1.8	9.6	77	19	1.7	9.4
20	1.9	1.3	1.6	1.4	2.0	1.5	2.0	14	75	19	1.8	7.7
21	1.7	1.3	1.5	1.4	2.0	1.5	4.4	9.9	70	18	2.3	3.7
22	1.7	1.3	1.3	1.3	2.1	1.3	2.4	7.8	64	17	2.5	2.7
23	1.7	1.3	1.4	1.4	1.8	1.3	2.2	9.6	61	15	2.6	2.4
24	1.6	1.3	1.3	1.5	1.8	1.3	2.1	8.4	54	14	4.4	2.2
25	1.7	1.3	1.4	1.5	1.7	1.3	1.9	9.4	52	13	3.0	2.1
26	1.7	1.4	1.4	1.6	1.7	1.3	2.2	10	56	11	2.3	2.1
27	1.8	1.5	1.5	1.4	1.7	1.3	2.3	9.5	52	8.7	1.9	2.4
28	1.3	1.6	1.5	1.4	1.7	1.3	2.1	7.8	59	7.6	1.8	2.6
29	1.7	1.8	1.4	1.3	---	1.4	2.4	9.6	56	6.5	1.8	5.1
30	1.7	1.6	1.3	1.4	---	1.5	4.3	16	54	6.7	1.7	2.8
31	1.7	---	1.2	1.3	---	1.4	---	11	---	7.2	1.6	---
TOTAL	77.5	43.7	43.2	45.9	45.0	49.6	58.6	299.0	2198	826.7	117.1	91.0
MEAN	2.50	1.46	1.39	1.48	1.61	1.60	1.95	9.65	73.3	26.7	3.78	3.03
MAX	8.9	2.0	1.6	2.0	2.1	2.0	4.4	50	118	78	8.8	9.4
MIN	1.1	1.3	1.2	1.2	1.2	1.3	1.3	2.3	31	6.5	1.6	1.7
AC-FT	154	87	86	91	89	98	116	593	4360	1640	232	180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	MEAN	1.81	1.78	1.70	1.78	3.03	2.85	6.36	37.4	14.1	2.69	2.79
MAX	2.65	2.17	2.17	1.92	1.95	4.47	3.75	9.65	73.3	26.7	3.78	3.03
(WY)	1994	1994	1994	1994	1994	1994	1994	1995	1995	1995	1995	1995
MIN	2.50	1.46	1.39	1.48	1.61	1.60	1.95	3.07	1.61	1.48	1.59	2.54
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1994 - 1995
ANNUAL TOTAL	844.89	3895.3	--
ANNUAL MEAN	2.31	10.7	6.56
HIGHEST ANNUAL MEAN	--	--	10.7
LOWEST ANNUAL MEAN	--	--	2.45
HIGHEST DAILY MEAN	12 May 13	118 Jun 9	118 Jun 9 1995
LOWEST DAILY MEAN	.95 Jul 21	1.1 Oct 9	.95 Jul 21 1994
ANNUAL SEVEN-DAY MINIMUM	1.0 Jul 17	1.3 Dec 30	1.0 Jul 17 1994
INSTANTANEOUS PEAK FLOW	--	139 Jul 2	139 Jul 2 1995
INSTANTANEOUS PEAK STAGE	--	3.69 Jul 2	3.69 Jul 2 1995
ANNUAL RUNOFF (AC-FT)	1680	7730	4750
10 PERCENT EXCEEDS	4.4	44	9.5
50 PERCENT EXCEEDS	1.7	1.8	2.0
90 PERCENT EXCEEDS	1.2	1.3	1.3

LOCATION.--Lat 41°07'35", long 104°39'04", in NE1/4 SW1/4 NW1/4 sec.3, T. 13 N., R.65 W., Laramie County, Hydrologic Unit 10190009, 0.4 mi upstream from highwater line of Wyoming Hereford Ranch Reservoir No. 2 and 2.3 mi southeast of Archer.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

PLATTE RIVER BASIN

06756100 CROW CREEK NEAR CARPENTER, WY

LOCATION.--Lat 41°04'58", long 104°23'56", in SE¹/₄ NE¹/₄ NW¹/₄ sec.23, T.13 N., R.63 W., Laramie County, Hydrologic Unit 10190009, on left bank 0.6 mi downstream from county road and 3.0 mi northwest of Carpenter.

DRAINAGE AREA.--415 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 5,480 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 19 to Dec. 23, Dec. 31 to Jan.24, Jan. 26, 29, 30, Feb. 1-5, Feb. 9 to Mar. 11, Mar. 26-28, and Aug. 31 to Sept. 21. Records fair except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	17	12	2.5	2.4	1.7	1.5	4.3	49	74	9.1	1.0
2	1.9	17	11	2.0	2.8	1.7	1.2	3.3	78	84	8.1	2.0
3	1.9	17	11	1.5	2.7	2.0	2.1	5.4	120	85	6.6	3.1
4	2.1	17	10	1.0	2.6	2.4	1.3	2.8	150	102	5.9	4.5
5	4.2	16	9.0	1.2	2.5	2.0	.94	1.5	156	103	3.5	2.8
6	4.9	16	8.5	1.3	2.5	1.7	.94	1.5	154	102	1.7	1.9
7	4.4	15	8.2	1.3	2.3	1.5	.94	5.1	149	98	3.4	1.8
8	4.6	15	7.5	1.4	2.4	1.5	.97	25	147	40	2.6	1.8
9	4.2	15	7.0	1.6	2.1	2.0	.98	22	146	16	1.8	2.0
10	4.5	16	6.5	1.7	2.2	3.0	1.9	17	136	13	.66	5.6
11	4.3	19	6.5	1.7	1.9	5.0	1.8	17	131	12	.97	3.5
12	3.9	18	7.0	1.6	1.5	6.5	3.1	17	131	10	1.4	2.4
13	4.2	17	7.5	1.7	1.4	6.6	1.9	17	131	10	.99	1.7
14	4.5	15	6.5	1.8	1.5	1.8	1.6	14	132	9.2	.65	1.6
15	5.1	14	5.5	1.6	1.7	.89	1.3	15	132	5.0	3.1	1.6
16	6.0	14	5.0	1.4	2.0	.91	1.3	16	131	15	2.2	1.5
17	6.5	15	5.5	1.3	2.5	.88	2.0	18	114	19	2.1	1.7
18	6.8	14	6.0	1.2	2.8	.85	2.7	63	40	21	1.2	1.7
19	6.3	14	5.5	1.4	3.0	1.3	2.6	84	54	20	.92	4.4
20	6.2	15	5.2	1.3	3.3	1.5	2.9	47	82	20	.69	7.0
21	5.6	14	6.0	1.2	3.3	1.2	3.9	50	81	21	.93	10
22	5.6	13	5.5	1.3	3.3	1.2	2.9	33	84	21	.90	16
23	4.5	12	5.2	1.5	3.2	1.8	2.7	42	87	29	1.1	16
24	3.9	14	5.2	1.6	3.4	1.3	2.6	39	88	30	1.2	15
25	6.3	15	4.5	1.9	3.2	.87	2.6	38	83	29	1.3	14
26	15	13	4.3	1.9	3.0	.84	3.4	43	62	29	.84	13
27	16	12	5.0	1.8	2.5	.85	2.2	41	53	25	.51	21
28	16	11	4.4	2.0	2.0	.87	3.0	41	54	13	.48	35
29	16	10	3.7	2.1	---	.89	3.3	36	55	8.6	.50	64
30	17	11	3.3	2.2	---	.96	4.5	40	54	7.6	.50	60
31	17	---	3.0	2.1	---	1.4	---	41	---	8.0	.56	---
TOTAL	211.2	441	201.0	50.1	70.0	57.91	65.07	839.9	3064	1079.4	66.40	317.6
MEAN	6.81	14.7	6.48	1.62	2.50	1.87	2.17	27.1	102	34.8	2.14	10.6
MAX	17	19	12	2.5	3.4	6.6	4.5	84	156	103	9.1	64
MIN	1.8	10	3.0	1.0	1.4	.84	.94	1.5	40	5.0	.48	1.0
AC-FT	419	875	399	99	139	115	129	1670	6080	2140	132	630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995
MEAN	12.9	15.3	7.77	6.14	6.31	12.2
MAX	24.6	24.2	15.5	16.0	11.5	34.8
(WY)	1994	1992	1992	1991	1992	1991
MIN	4.87	6.86	3.65	1.62	2.15	1.87
(WY)	1993	1993	1991	1995	1993	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1990 - 1995
ANNUAL TOTAL	1652.71	6463.58	---
ANNUAL MEAN	4.53	17.7	13.8
HIGHEST ANNUAL MEAN	---	---	28.2
LOWEST ANNUAL MEAN	---	---	5.94
HIGHEST DAILY MEAN	33	156	636
LOWEST DAILY MEAN	.34	.48	.34
ANNUAL SEVEN-DAY MINIMUM	.35	.63	.35
INSTANTANEOUS PEAK FLOW	---	163	789
INSTANTANEOUS PEAK STAGE	---	3.70	6.09
INSTANTANEOUS LOW FLOW	---	---	.65
ANNUAL RUNOFF (AC-FT)	3280	12820	10000
10 PERCENT EXCEEDS	14	54	26
50 PERCENT EXCEEDS	2.2	4.5	4.6
90 PERCENT EXCEEDS	.56	1.2	1.3

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY

DRAINAGE AREA.--468 mi².

PERIOD OF RECORD.--October 1931 to September 1992, October 1993 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 979: 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 7,468.09 ft above sea level. Prior to Oct. 6, 1977, on left bank at same datum.

REMARKS.--Estimated daily discharges: Oct. 29 to Apr. 10 and May 2. Records good except those for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 10,200 acres, of which about 6,100 acres are downstream from station. National Weather Service satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	150	110	86	100	110	190	230	1210	2210	1280	489
2	209	150	120	82	110	110	200	220	1300	2110	1060	433
3	231	140	130	82	100	110	210	235	1630	2170	916	408
4	245	130	140	90	100	110	220	225	1970	2280	874	405
5	244	140	130	84	100	110	240	243	2090	2010	867	426
6	236	140	120	84	100	100	240	292	2390	1680	819	446
7	235	140	100	90	110	100	240	273	2660	1780	785	463
8	232	140	89	90	110	100	220	246	2330	2080	799	451
9	223	130	80	100	110	90	200	262	1900	2360	824	422
10	212	130	80	100	100	90	190	306	1580	2690	805	397
11	206	130	84	100	100	90	184	379	1300	2880	737	371
12	203	120	84	90	100	100	185	433	1250	3170	789	336
13	196	120	90	90	100	110	244	388	1710	3540	896	307
14	192	120	86	100	96	110	315	359	2240	3560	821	287
15	212	120	78	100	90	120	253	349	2680	3260	703	268
16	247	130	82	100	90	130	208	434	3060	2650	615	257
17	222	120	90	98	100	130	202	496	3230	2100	563	245
18	209	120	100	96	100	140	209	542	3140	1900	541	244
19	202	120	100	100	110	140	215	569	2840	1830	551	242
20	198	130	96	90	110	150	207	626	2350	1960	539	252
21	194	130	100	86	110	150	205	712	2040	1970	494	263
22	180	130	100	84	110	160	214	762	2050	1900	462	255
23	174	130	100	80	120	160	211	816	2020	1790	459	247
24	169	130	110	80	120	160	201	698	1910	1650	527	233
25	156	130	110	80	120	170	224	616	1970	1490	616	218
26	155	130	100	90	110	170	238	629	2110	1370	676	211
27	155	130	100	100	110	170	219	702	2310	1320	648	211
28	160	120	100	110	110	160	261	714	2450	1300	592	205
29	160	110	90	100	---	170	281	652	2530	1330	526	197
30	150	110	90	100	---	180	251	704	2410	1340	479	211
31	150	---	90	100	---	180	---	899	---	1340	507	---
TOTAL	6152	3870	3079	2862	2946	4080	6677	15011	64660	65020	21770	9400
MEAN	198	129	99.3	92.3	105	132	223	484	2155	2097	702	313
MAX	247	150	140	110	120	180	315	899	3230	3560	1280	489
MIN	150	110	78	80	90	90	184	220	1210	1300	459	197
AC-FT	12200	7680	6110	5680	5840	8090	13240	29770	128300	129000	43180	18640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1995, BY WATER YEAR (WY)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992-1993, BY WATER YEAR (WY)												
MEAN	198	144	126	117	110	123	288	1006	1773	1259	542	300
MAX	433	223	390	710	166	240	600	1811	3813	2424	997	592
(WY)	1984	1983	1993	1993	1967	1932	1943	1956	1986	1975	1982	1963
MIN	102	67.7	70.0	50.0	60.0	70.0	129	263	610	399	213	150
(WY)	1989	1994	1933	1933	1933	1933	1970	1993	1934	1988	1988	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1932 - 1995*
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	WYOMING YEAR			WYOMING YEAR			WYOMING YEAR		
	1980			1981			1982		
ANNUAL TOTAL	124074			205527			--		
ANNUAL MEAN	340			563			500		
HIGHEST ANNUAL MEAN	--			--			768		1986
LOWEST ANNUAL MEAN	--			--			281		1977
HIGHEST DAILY MEAN	1830	May 14		3560	Jul 14		5450	Jun 6	1986
LOWEST DAILY MEAN	70	Jan 31		78	Dec 15		36	Nov 26	1933
ANNUAL SEVEN-DAY MINIMUM	83	Dec 9		83	Dec 9		43	Nov 24	1933
INSTANTANEOUS PEAK FLOW	--			3670	Jul 13		5490a	Jun 6	1986
INSTANTANEOUS PEAK STAGE	--			5.04	Jul 13		5.77	Jun 9	1972
ANNUAL RUNOFF (AC-FT)	246100			407700			362500		
10 PERCENT EXCEEDS	864			1970			1400		
50 PERCENT EXCEEDS	194			209			201		
90 PERCENT EXCEEDS	98			96			100		

* No record for 1993 water year.
a Gage height, 5.65 ft.

09196500 PINE CREEK ABOVE FREMONT LAKE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1985 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May and June 1987.

pH: March to July 1987.

WATER TEMPERATURE: March to June 1987, April 1989 to current year.

INSTRUMENTATION.--Water temperature recorder since March 1987, provides continuous recordings. Sensor is located in the stream at the gage..

REMARKS.--Records represent water temperature at sensor within 0.5°C. No record May 2, July 20-24, Aug. 13, 14, 23-25, Aug. 31 to Sept. 8, Sept. 19-30.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum and minimum daily, 18 microsiemens, entire period of operation.

pH: Maximum recorded, 7.0, July 6, 1987; minimum recorded, 6.1, May 19, 1987.

WATER TEMPERATURE: Maximum recorded, 25.1°C, Aug. 4, 1994; minimum recorded, 0.0°C, on many days during winter period most years.

EXTREMES FOR CURRENT YEAR:

WATER TEMPERATURE: Maximum recorded, 15.4°C, Aug. 28; minimum recorded, 0.0°C on many days during November to March.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.3	10.6	5.6	4.3	1.2	.0	.0	.0	1.6	1.3	1.1	.0
2	11.4	9.1	4.3	2.6	.8	.1	.0	.0	1.6	1.0	.9	.0
3	9.1	8.0	4.7	1.6	.6	.3	.0	.0	1.6	.3	1.0	.4
4	10.7	7.9	3.2	.4	.8	.6	.0	.0	2.0	.3	1.6	.8
5	11.4	9.1	3.5	2.3	.8	.6	.0	.0	1.9	.3	1.2	.6
6	10.8	8.9	4.3	3.1	1.2	.3	.2	.0	1.8	.3	.9	.0
7	12.2	8.2	4.4	3.5	.8	.0	.1	.0	1.4	.6	1.3	.0
8	12.4	7.1	4.0	1.7	.0	.0	.6	.1	1.7	.4	1.8	.0
9	13.1	7.5	3.4	1.2	.0	.0	.9	.4	1.7	.7	2.3	1.1
10	12.6	7.7	5.7	3.1	.0	.0	1.1	.6	.9	.0	2.3	1.4
11	11.9	8.3	5.9	2.9	.2	.0	1.2	.6	.2	.0	2.0	1.3
12	11.4	8.1	4.5	2.9	.2	.0	.8	.1	.0	.0	1.9	1.1
13	12.5	8.3	3.3	.5	.7	.0	.8	.3	.0	.0	1.7	.8
14	10.1	9.0	1.4	.0	.0	.0	1.4	.6	.1	.0	2.7	.9
15	9.2	7.9	1.7	.0	.0	.0	1.2	.6	.0	.0	2.4	1.6
16	8.9	7.3	2.2	1.1	.1	.0	.7	.0	.6	.0	2.9	.8
17	7.5	6.8	1.6	.0	.9	.0	.3	.0	1.0	.0	4.2	1.3
18	8.1	6.6	1.7	.0	.9	.0	.8	.0	1.8	.7	3.2	1.2
19	8.6	5.7	.7	.0	.7	.0	1.2	.0	1.3	.8	3.3	1.2
20	9.2	5.5	1.2	.0	.7	.0	.6	.0	2.6	1.2	2.3	.2
21	7.6	6.3	.2	.0	1.0	.0	.0	.0	2.4	1.0	3.4	1.9
22	8.6	5.5	.2	.0	1.0	.0	.0	.0	2.4	.8	3.6	1.1
23	9.2	4.9	1.4	.0	.9	.0	.0	.0	2.6	.7	3.4	.6
24	9.4	4.5	.6	.0	1.1	.6	.1	.0	2.8	1.0	2.0	.6
25	9.3	5.0	.8	.0	1.2	.8	.8	.0	2.8	1.0	2.0	.1
26	8.6	5.1	.4	.0	1.2	.6	1.0	.4	2.4	1.0	2.8	.1
27	9.5	6.4	.0	.0	1.3	.4	1.0	.5	2.1	1.6	1.6	.1
28	8.1	5.3	.0	.0	.9	.0	.8	.1	1.9	.9	2.0	.0
29	6.8	3.4	.0	.0	1.1	.3	.4	.0	---	---	3.1	.0
30	5.8	2.6	.7	.0	.3	.0	.6	.0	---	---	3.1	.0
31	5.3	2.7	---	---	.0	.0	1.4	.4	---	---	4.4	.4
MONTH	13.3	2.6	5.9	.0	1.3	.0	1.4	.0	2.8	.0	4.4	.0

09196500 PINE CREEK ABOVE FREMONT LAKE, WY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.1	.4	5.4	.9	6.7	1.9	8.2	5.4	12.1	9.8	---	---
2	7.1	1.0	4.9	---	6.3	2.8	7.6	4.8	12.8	10.4	---	---
3	10.7	.4	3.5	2.1	5.6	2.6	5.9	4.8	13.0	10.6	---	---
4	11.2	.8	7.3	2.2	6.5	3.0	7.4	4.1	12.9	11.1	---	---
5	5.6	1.6	7.4	2.6	7.9	3.2	8.8	4.5	13.4	11.2	---	---
6	7.6	2.1	4.0	1.8	4.4	2.0	9.6	5.6	13.9	11.4	---	---
7	6.4	1.7	5.2	1.1	5.1	2.4	10.2	6.2	14.4	12.0	---	---
8	3.2	.8	5.5	2.2	4.6	2.6	10.0	6.4	12.9	11.4	14.6	---
9	4.4	.3	5.7	1.5	3.3	2.2	9.2	6.5	13.5	10.8	14.4	11.7
10	5.5	.2	5.5	2.9	4.7	2.4	8.7	6.4	13.7	12.2	13.8	12.3
11	8.3	.2	4.5	2.0	8.3	2.3	9.0	6.5	14.1	12.3	13.9	11.5
12	6.5	1.1	5.0	1.6	8.8	3.6	7.9	6.2	14.1	11.9	14.6	11.3
13	8.9	2.4	3.3	1.8	8.0	3.7	9.1	5.5	---	---	14.8	11.7
14	5.6	1.8	5.7	1.3	7.8	4.0	10.0	6.0	---	---	14.8	12.1
15	5.2	.4	8.6	2.0	7.0	4.1	10.7	6.5	14.8	11.9	14.8	11.5
16	5.4	1.1	8.2	1.8	6.6	4.4	11.3	7.0	14.3	12.3	14.8	11.7
17	6.6	1.7	7.2	1.7	5.7	4.1	12.4	8.2	14.3	12.4	14.3	11.9
18	7.6	.9	6.5	2.3	5.6	3.6	12.3	9.3	14.4	11.8	13.2	11.9
19	5.4	.9	7.6	1.6	6.5	3.9	12.0	9.6	14.4	11.5	---	11.8
20	8.0	1.1	6.2	2.4	8.0	4.0	---	---	15.1	11.9	---	---
21	10.1	.9	6.4	1.9	7.6	3.9	---	---	14.4	12.6	---	---
22	5.4	1.6	3.8	2.7	6.6	3.2	---	---	15.1	12.7	---	---
23	4.7	1.3	5.0	2.4	6.8	3.7	---	---	---	13.6	---	---
24	8.7	.4	5.8	1.8	7.7	3.6	---	---	---	---	---	---
25	7.0	2.4	4.3	2.6	7.8	4.4	10.5	8.8	---	---	---	---
26	5.1	1.3	4.0	2.3	8.9	4.6	10.8	9.0	15.2	12.6	---	---
27	8.9	1.8	3.6	2.0	7.1	5.4	11.1	9.0	14.8	12.8	---	---
28	6.2	2.8	6.6	1.9	7.5	4.9	11.6	9.5	15.4	12.7	---	---
29	3.8	2.2	7.2	1.9	7.3	4.0	12.2	10.0	15.3	12.7	---	---
30	5.6	1.7	7.8	2.3	8.3	4.2	11.5	9.6	15.2	12.4	---	---
31	---	---	8.1	2.3	---	---	11.3	9.4	---	---	---	---
MONTH	11.2	.2	8.6	---	8.9	1.9	---	---	---	---	---	---

09196940 FREMONT DITCH NEAR PINEDALE, WY

LOCATION.--Lat 42°53'41", long 109°51'10", in NE¹/₄ NE¹/₄ NW¹/₄ sec.27, T.34 N., R.109 W., Sublette County, Hydrologic Unit 14040102, on right bank 1.1 mi downstream from headgate on Pine Creek and 1.5 mi northeast of Pinedale.
 PERIOD OF RECORD.--April 1985 to September 1986, April 1988 to current year (no winter records).
 GAGE.--Water-stage recorder. Elevation of gage is 7,400 ft above sea level, from topographic map.
 REMARKS.-- Estimated daily discharges: Apr. 1-2. Records good. Ditch diverts water from right bank of Pine Creek for irrigation downstream.
 COOPERATION.--Record provided by Office of the Wyoming State Engineer and reviewed by Geological Survey after September 30, 1992.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.00	.01	7.8	34	39	5.8
2	---	---	---	---	---	---	.00	.00	8.3	32	39	5.8
3	---	---	---	---	---	---	.00	.00	8.7	33	36	5.6
4	---	---	---	---	---	---	.00	.00	9.2	33	9.6	5.9
5	---	---	---	---	---	---	.00	.00	9.4	33	9.7	6.0
6	---	---	---	---	---	---	.00	.00	10	32	9.7	5.9
7	---	---	---	---	---	---	.00	.00	16	33	9.7	5.8
8	---	---	---	---	---	---	.00	.23	23	33	9.6	5.9
9	---	---	---	---	---	---	.00	5.4	24	34	9.5	5.8
10	---	---	---	---	---	---	.00	5.4	23	35	9.5	5.8
11	---	---	---	---	---	---	.00	5.4	23	36	9.6	5.8
12	---	---	---	---	---	---	.00	5.4	22	36	9.6	5.7
13	---	---	---	---	---	---	.00	5.4	25	33	9.3	5.3
14	---	---	---	---	---	---	.00	5.3	28	32	9.3	4.3
15	---	---	---	---	---	---	.00	5.2	27	32	9.3	3.9
16	---	---	---	---	---	---	.00	5.1	26	32	9.2	3.8
17	---	---	---	---	---	---	.00	5.0	28	32	9.3	3.8
18	---	---	---	---	---	---	.00	5.0	28	34	9.2	3.9
19	---	---	---	---	---	---	.20	4.9	27	36	9.0	3.9
20	---	---	---	---	---	---	.30	4.8	28	36	9.0	3.5
21	---	---	---	---	---	---	.31	4.8	31	37	8.9	3.3
22	---	---	---	---	---	---	.31	4.7	31	37	8.7	3.1
23	---	---	---	---	---	---	.31	4.7	31	37	8.6	3.1
24	---	---	---	---	---	---	.27	4.6	32	37	7.2	2.9
25	---	---	---	---	---	---	.25	4.4	32	38	6.0	2.9
26	---	---	---	---	---	---	.20	4.5	33	38	6.0	2.8
27	---	---	---	---	---	---	.16	5.8	34	37	5.9	2.7
28	---	---	---	---	---	---	.23	8.5	35	38	5.9	2.7
29	---	---	---	---	---	---	.11	8.2	36	38	5.8	2.7
30	---	---	---	---	---	---	.18	7.7	37	39	5.8	2.3
31	---	---	---	---	---	---	---	7.5	---	39	5.8	---
TOTAL	---	---	---	---	---	---	2.83	127.94	733.4	1086	348.7	130.7
MEAN	---	---	---	---	---	---	.094	4.13	24.4	35.0	11.2	4.36
MAX	---	---	---	---	---	---	.31	8.5	37	39	39	6.0
MIN	---	---	---	---	---	---	.00	.00	7.8	32	5.8	2.3
AC-FT	---	---	---	---	---	---	5.6	254	1450	2150	692	259

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	.22	7.10	22.2	21.9	4.18	3.29
MAX	---	---	---	---	---	---	1.21	13.6	29.1	35.0	11.2	9.38
(WY)	---	---	---	---	---	---	1985	1990	1994	1995	1995	1989
MIN	---	---	---	---	---	---	.000	3.36	16.5	14.0	.45	.19
(WY)	---	---	---	---	---	---	1986	1986	1985	1985	1985	1985

SUMMARY STATISTICS

HIGHEST DAILY MEAN

FOR 1995 WATER YEAR*

39 Jul 30 to Aug 3

WATER YEARS 1985 - 1995*

39 Jul 30

to Aug 3 1995

LOWEST DAILY MEAN

.00 Many days

.00 Many days

ANNUAL SEVEN-DAY MINIMUM

.00 Many days

.00 Many days

INSTANTANEOUS PEAK FLOW

40a Jul 31

40a Jul 31 1995

INSTANTANEOUS PEAK STAGE

2.55 Jul 1

2.55 Jul 1 1995

10 PERCENT EXCEEDS

--

27

50 PERCENT EXCEEDS

--

5.2

90 PERCENT EXCEEDS

--

.00

* During period of operation.

a Gage Height, 2.54 ft.

09196960 HIGHLAND DITCH NEAR PINEDALE, WY

LOCATION.--Lat 42°53'56", long 109°50'18", in NW¹/₄ SW¹/₄ SW¹/₄ sec.23, T.34 N., R.109 W., Sublette County, Hydrologic Unit 14040102, on left bank 60 ft downstream from headgate on Pine Creek and 2.2 mi northeast of Pinedale.
 PERIOD OF RECORD.--April 1985 to September 1986, April 1988 to current year (no winter records).
 GAGE.--Water-stage recorder. Elevation of gage is 7,410 ft above sea level, from topographic map.
 REMARKS.--Estimated daily discharges: July 8 to Aug. 9. Records fair except those for estimated daily discharges, which are poor. Ditch diverts water from left bank of Pine Creek for irrigation downstream.
 COOPERATION.--Record provided by Office of the Wyoming State Engineer and reviewed by Geological Survey after September 30, 1992.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	4.5	16	83	220	69	72
2	---	---	---	---	---	---	4.3	15	97	215	69	87
3	---	---	---	---	---	---	4.2	15	107	195	69	90
4	---	---	---	---	---	---	4.0	33	119	185	69	89
5	---	---	---	---	---	---	3.8	43	133	183	70	89
6	---	---	---	---	---	---	3.6	43	150	181	70	88
7	---	---	---	---	---	---	3.4	42	146	182	71	88
8	---	---	---	---	---	---	3.3	39	148	186	71	78
9	---	---	---	---	---	---	3.3	39	154	193	71	58
10	---	---	---	---	---	---	3.3	39	150	197	71	41
11	---	---	---	---	---	---	3.3	39	146	199	71	58
12	---	---	---	---	---	---	3.3	39	141	195	71	78
13	---	---	---	---	---	---	3.2	39	150	153	71	78
14	---	---	---	---	---	---	3.0	38	167	129	72	77
15	---	---	---	---	---	---	2.9	37	173	145	63	77
16	---	---	---	---	---	---	2.8	37	170	159	72	76
17	---	---	---	---	---	---	2.8	46	179	150	72	75
18	---	---	---	---	---	---	2.8	66	178	140	72	75
19	---	---	---	---	---	---	2.8	78	176	117	71	75
20	---	---	---	---	---	---	2.8	77	179	92	71	74
21	---	---	---	---	---	---	2.8	76	179	72	71	73
22	---	---	---	---	---	---	2.8	76	181	45	71	73
23	---	---	---	---	---	---	2.7	77	185	57	71	72
24	---	---	---	---	---	---	2.7	75	189	67	71	71
25	---	---	---	---	---	---	2.6	74	210	66	70	70
26	---	---	---	---	---	---	2.5	77	221	71	70	69
27	---	---	---	---	---	---	2.3	79	230	71	70	69
28	---	---	---	---	---	---	3.4	77	227	71	70	68
29	---	---	---	---	---	---	10	76	229	71	70	67
30	---	---	---	---	---	---	15	73	234	71	69	66
31	---	---	---	---	---	---	---	72	---	70	69	---
TOTAL	---	---	---	---	---	---	114.2	1652	5031	4148	2178	2221
MEAN	---	---	---	---	---	---	3.81	53.3	168	134	70.3	74.0
MAX	---	---	---	---	---	---	15	79	234	220	72	90
MIN	---	---	---	---	---	---	2.3	15	83	45	63	41
AC-FT	---	---	---	---	---	---	227	3280	9980	8230	4320	4410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
MEAN	---	---	---	---	---
MAX	---	---	---	---	---
(WY)	---	---	---	---	---
MIN	---	---	---	---	---
(WY)	---	---	---	---	---
	2.18	5.11	1988	.043	1986
	65.2	128	1994	19.6	1986
	189	215	1989	162	1991
	123	164	1989	87.0	1988
	37.3	70.3	1995	23.0	1985
	37.7	74.0	1995	16.9	1988

SUMMARY STATISTICS

HIGHEST DAILY MEAN
 LOWEST DAILY MEAN

FOR 1995 WATER YEAR*

234 Jun 30
 2.3 Apr 27

WATER YEARS 1985 - 1995*

279 Jun 28 1990
 .00 Many days,
 most years
 .00 Many days,
 most years
 281 Jun 28 1990
 4.64 Jun 16 1993
 193
 45
 .28

ANNUAL SEVEN-DAY MINIMUM

--

INSTANTANEOUS PEAK FLOW

238 Jun 28

INSTANTANEOUS PEAK STAGE

4.41 Jun 28

10 PERCENT EXCEEDS

--

50 PERCENT EXCEEDS

--

90 PERCENT EXCEEDS

--

* During period of operation.

09197000 PINE CREEK BELOW FREMONT LAKE, WY

LOCATION.--Lat 42°53'42", long 109°50'35", in NE¹/₄ NE¹/₄ NE¹/₄ sec.27, T.34 N., R.109 W., Sublette County, Hydrologic Unit 14040102, on left bank at Lot Number 93, 0.9 mi downstream from Fremont Lake, and 2.1 mi northeast of Pinedale.

DRAINAGE AREA.--114 mi².

PERIOD OF RECORD.--October 1910 to September 1912, October 1915 to September 1918, April 1985 to September 1986, April 1988 to current year, (no winter records since 1918). Published as "near Pinedale" prior to October 1912 and as "at Fremont Lake outlet" October 1915 to September 1918. Records since April 1985 equivalent to earlier records if diversions to Highland Ditch (station 09196960) is added to flow past station.

GAGE.--Water-stage recorder. Elevation of gage is 7,390 ft above sea level, from topographic map. Prior to September 30, 1918, nonrecording gage at site 0.2 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Some regulation by Fremont Lake. Fremont Ditch (station 09196940) and Highland Ditch (station 09196960) divert water upstream from station for irrigation downstream from station.

COOPERATION.--Records provided by Office of the Wyoming State Engineer and reviewed by Geological Survey after Sept. 30, 1992.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	17	55	200	833	413	115
2	---	---	---	---	---	---	17	58	150	844	340	115
3	---	---	---	---	---	---	17	59	146	917	302	115
4	---	---	---	---	---	---	23	61	155	992	218	116
5	---	---	---	---	---	---	27	60	170	970	146	117
6	---	---	---	---	---	---	31	59	261	960	128	117
7	---	---	---	---	---	---	34	58	507	970	125	117
8	---	---	---	---	---	---	34	58	535	1040	120	115
9	---	---	---	---	---	---	34	61	505	1110	119	115
10	---	---	---	---	---	---	34	75	483	1190	119	115
11	---	---	---	---	---	---	34	85	454	1250	119	115
12	---	---	---	---	---	---	36	133	451	1370	120	113
13	---	---	---	---	---	---	38	156	438	1590	122	113
14	---	---	---	---	---	---	38	166	490	1650	122	112
15	---	---	---	---	---	---	38	172	635	1530	117	111
16	---	---	---	---	---	---	38	187	758	1410	117	111
17	---	---	---	---	---	---	38	194	877	1240	117	111
18	---	---	---	---	---	---	39	191	921	1080	117	111
19	---	---	---	---	---	---	39	191	872	977	115	109
20	---	---	---	---	---	---	39	192	711	940	117	108
21	---	---	---	---	---	---	39	204	613	925	117	107
22	---	---	---	---	---	---	39	206	618	909	117	105
23	---	---	---	---	---	---	39	215	627	817	117	105
24	---	---	---	---	---	---	39	220	623	758	117	105
25	---	---	---	---	---	---	39	221	626	675	117	105
26	---	---	---	---	---	---	39	224	654	623	115	105
27	---	---	---	---	---	---	39	230	699	560	115	103
28	---	---	---	---	---	---	39	229	751	460	117	102
29	---	---	---	---	---	---	39	228	795	425	115	101
30	---	---	---	---	---	---	46	228	812	423	115	101
31	---	---	---	---	---	---	---	238	---	415	115	---
TOTAL	---	---	---	---	---	---	1042	4714	16537	29853	4490	3310
MEAN	---	---	---	---	---	---	34.7	152	551	963	145	110
MAX	---	---	---	---	---	---	46	238	921	1650	413	117
MIN	---	---	---	---	---	---	17	55	146	415	115	101
AC-FT	---	---	---	---	---	---	2070	9350	32800	59210	8910	6570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1918, BY WATER YEAR (WY)

	63.2	36.8	27.5	23.3	24.3	26.2	35.1	97.1	857	939	246	91.4
MEAN	63.2	36.8	27.5	23.3	24.3	26.2	35.1	97.1	857	939	246	91.4
MAX	86.2	40.0	34.2	26.3	33.0	36.0	45.0	130	1273	1258	300	131
(WY)	1916	1911	1918	1918	1916	1916	1918	1916	1918	1917	1917	1917
MIN	49.9	30.0	20.0	20.0	18.0	20.0	27.0	81.4	552	665	203	54.6
(WY)	1917	1917	1917	1916	1917	1917	1917	1912	1917	1912	1911	1911

SUMMARY STATISTICS

	FOR 1995 WATER YEAR*	WATER YEARS 1911 - 1918
ANNUAL MEAN	---	197
HIGHEST ANNUAL MEAN	---	211
LOWEST ANNUAL MEAN	---	183
HIGHEST DAILY MEAN	1650	2330
LOWEST DAILY MEAN	17	8.6
ANNUAL SEVEN-DAY MINIMUM	---	18
INSTANTANEOUS PEAK FLOW	1680	2330
INSTANTANEOUS PEAK STAGE	4.27	---
ANNUAL RUNOFF (AC-FT)	---	143000
10 PERCENT EXCEEDS	---	675
50 PERCENT EXCEEDS	---	40
90 PERCENT EXCEEDS	---	20

* During period of operation.

For period of record through 1995.

09205000 NEW FORK RIVER NEAR BIG PINEY, WY

LOCATION.--Lat 42°34'02", long 109°55'46", in SE¹/₄ NE¹/₄ NE¹/₄ sec.22, T.30 N., R.110 W., Sublette County, Hydrologic Unit 14040102, on right bank 350 ft downstream from old highway bridge, 3.4 mi upstream from mouth, and 9.5 mi northeast of Big Piney.

DRAINAGE AREA.--1,230 mi², approximately.

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,800 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 16 to Mar. 30. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power development, and diversions for irrigation of about 62,100 acres upstream from station. National Weather Service satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	256	317	180	140	200	300	232	355	771	4810	1420	439
2	273	317	190	150	220	300	235	348	911	4420	1350	443
3	280	317	210	160	260	300	250	352	1150	4210	1190	449
4	296	317	190	170	220	300	268	408	1510	4360	1100	446
5	312	323	180	180	240	300	284	413	1920	4280	977	495
6	317	328	160	190	250	270	302	386	2700	3950	869	470
7	308	328	150	190	270	230	309	378	3730	3830	809	446
8	305	328	140	200	280	210	301	362	4080	3920	752	451
9	297	328	140	210	290	230	292	340	3850	4220	715	461
10	301	328	150	220	270	250	265	310	3540	4320	718	436
11	301	328	160	190	260	300	253	337	2850	4400	737	435
12	301	328	170	180	270	330	255	381	2510	4690	703	425
13	301	328	180	210	280	300	256	475	2890	5200	661	417
14	301	288	170	220	270	300	251	528	3930	5640	638	414
15	306	302	160	210	240	300	256	515	5540	5590	628	408
16	323	300	170	200	250	300	253	480	6800	4770	608	404
17	351	280	190	190	280	300	252	488	7500	4090	591	393
18	351	270	180	180	300	300	254	503	7260	3620	556	399
19	351	250	190	170	310	300	254	518	6710	3220	526	417
20	351	250	180	170	270	300	281	551	5750	3090	510	417
21	339	250	180	160	300	320	282	585	5220	3160	494	413
22	339	220	180	140	300	300	278	710	5230	3130	486	405
23	339	200	200	130	300	270	286	873	5310	3110	479	399
24	339	210	220	120	320	260	282	875	4940	2920	585	398
25	329	210	220	130	320	250	277	848	4610	2700	577	398
26	328	210	210	160	320	230	283	831	4430	2470	549	398
27	328	190	200	200	320	230	284	1080	4750	2170	514	405
28	328	180	190	200	300	220	293	1180	5310	1920	469	409
29	325	165	190	180	---	230	319	1050	5600	1690	463	398
30	322	170	170	160	---	220	344	837	5430	1570	448	419
31	317	---	150	180	---	229	---	766	---	1480	442	---
TOTAL	9815	8160	5550	5490	7710	8479	8231	18063	126732	112950	21564	12707
MEAN	317	272	179	177	275	274	274	583	4224	3644	696	424
MAX	351	328	220	220	320	330	344	1180	7500	5640	1420	495
MIN	256	165	140	120	200	210	232	310	771	1480	442	393
AC-FT	19470	16190	11010	10890	15290	16820	16330	35830	251400	224000	42770	25200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1995, BY WATER YEAR (WY)

	MEAN	375	319	239	197	208	262	437	1127	2985	1650	589	374
MAX	989	608	397	277	337	597	1114	2539	7064	4155	1279	766	
(WY)	1983	1984	1983	1969	1969	1972	1969	1969	1986	1982	1982	1983	
MIN	171	188	139	129	135	161	181	254	699	405	225	164	
(WY)	1989	1989	1989	1963	1989	1977	1981	1977	1992	1961	1988	1988	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1954 - 1995
ANNUAL TOTAL	174204	345451	--
ANNUAL MEAN	477	946	731
HIGHEST ANNUAL MEAN	--	--	1288
LOWEST ANNUAL MEAN	--	--	313
HIGHEST DAILY MEAN	4100	May 15	7500
LOWEST DAILY MEAN	140	Dec 8	120
ANNUAL SEVEN-DAY MINIMUM	153	Dec 6	144
INSTANTANEOUS PEAK FLOW	--	--	7670
INSTANTANEOUS PEAK STAGE	--	--	7.42
ANNUAL RUNOFF (AC-FT)	345500	685200	529500
10 PERCENT EXCEEDS	824	3770	1830
50 PERCENT EXCEEDS	288	320	326
90 PERCENT EXCEEDS	180	180	185

09209400 GREEN RIVER NEAR LA BARGE, WY

LOCATION.--Lat 42°11'34", long 110°09'45", in SE¹/₄ SE¹/₄ NW¹/₄ sec.33, T.26 N., R.112 W., Lincoln County, Hydrologic Unit 14040101, on right bank 1.7 mi upstream from high-water line of Fontenelle Reservoir at elevation 6,513 ft, 4.0 mi upstream from Muddy Creek, and 5.0 mi south of La Barge.

DRAINAGE AREA.--3,910 mi², approximately.

PERIOD OF RECORD.--October 1963 to current year. Records are equivalent to those published August 1946 to March 1965 as Green River near Fontenelle (station 09209500).

GAGE.--Water-stage recorder. Elevation of gage is 6,520 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 4, 5, and Nov. 13 to Mar. 29. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 198,000 acres upstream from station. National Weather Service satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	428	560	440	410	360	500	756	885	1860	8150	3330	895
2	470	574	460	400	380	500	815	867	2200	7400	3230	910
3	511	589	480	410	350	520	849	832	2850	6990	2940	876
4	544	540	500	420	350	520	886	910	3650	7100	2630	878
5	595	560	520	430	350	500	972	989	4400	7410	2460	902
6	595	574	500	460	350	460	1070	995	5160	6810	2290	908
7	577	594	460	500	350	410	1160	989	6490	6080	2120	867
8	555	618	430	480	360	450	1210	989	7820	5930	1950	883
9	538	622	430	500	400	500	1280	913	8480	6270	1820	903
10	529	596	420	540	430	520	1010	857	8620	6820	1780	882
11	526	591	420	510	400	600	840	857	7440	7290	1830	846
12	523	627	420	500	400	600	753	1020	5830	8140	1740	823
13	522	620	440	470	400	600	736	1200	5250	9230	1710	786
14	520	540	430	460	400	600	769	1310	6060	10400	1740	750
15	526	500	410	480	390	580	963	1260	7910	10800	1680	715
16	562	460	410	410	380	540	921	1120	9770	10000	1510	689
17	639	470	420	380	380	600	810	1080	11000	8310	1350	656
18	676	460	440	350	390	700	754	1130	11600	6840	1250	646
19	658	420	450	380	380	800	734	1110	11600	6000	1160	690
20	631	400	450	340	400	900	744	1180	10800	5940	1110	712
21	618	400	440	320	430	940	771	1310	8980	6290	1080	709
22	613	400	440	320	470	1000	755	1520	8090	6140	1030	729
23	604	400	430	300	480	1000	766	1970	7980	5970	1080	734
24	591	400	420	330	500	1000	755	2200	7680	5610	1200	725
25	581	420	430	370	500	1000	706	2070	7120	5130	1360	716
26	574	460	450	370	520	920	697	1990	6850	4740	1320	704
27	567	460	470	360	520	880	723	2310	7030	4300	1300	703
28	564	450	470	340	520	820	700	2840	7890	3970	1240	718
29	555	440	450	330	---	800	743	2740	8530	3740	1120	714
30	554	400	400	330	---	776	845	2300	8630	3540	1020	718
31	551	---	390	330	---	743	---	1960	---	3380	936	---
TOTAL	17497	15145	13720	12530	11540	21279	25493	43703	217570	204720	52316	23387
MEAN	564	505	443	404	412	686	850	1410	7252	6604	1688	780
MAX	676	627	520	540	520	1000	1280	2840	11600	10800	3330	910
MIN	428	400	390	300	350	410	697	832	1860	3380	936	646
AC-FT	34710	30040	27210	24850	22890	42210	50570	86680	431600	406100	103800	46390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

	MEAN	736	539	464	490	703	1418	2808	5636	3514	1486	895
MAX	2049	1306	866	608	678	1565	2692	5091	14230	7993	3185	1768
(WY)	1983	1984	1984	1966	1969	1972	1986	1976	1986	1982	1982	1983
MIN	368	469	367	314	270	426	469	305	1080	710	466	365
(WY)	1989	1989	1989	1989	1989	1970	1977	1977	1992	1994	1988	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1964 - 1995
ANNUAL TOTAL	317587	658900	--
ANNUAL MEAN	870	1805	1630a
HIGHEST ANNUAL MEAN	--	--	2908
LOWEST ANNUAL MEAN	--	--	668
HIGHEST DAILY MEAN	5180	May 16	11600
LOWEST DAILY MEAN	374	Sep 29	300
ANNUAL SEVEN-DAY MINIMUM	395	Sep 24	334
INSTANTANEOUS PEAK FLOW	--	--	11700
INSTANTANEOUS PEAK STAGE	--	--	9.12
ANNUAL RUNOFF (AC-FT)	629900	1307000	1181000
10 PERCENT EXCEEDS	1730	6370	3990
50 PERCENT EXCEEDS	591	716	800
90 PERCENT EXCEEDS	424	400	430

a Average discharge, water years 1947-95, 1,608 ft³/s.

09210500 FONTENELLE CREEK NEAR HERSCHLER RANCH. NEAR FONTENELLE. WY

LOCATION.--Lat 42°05'46", long 110°24'57", in NW¼ SW¼ NE¼ sec.2, T.24 N., R.115 W., Lincoln County, Hydrologic Unit 14040101, on left bank 2.0 mi downstream from Dutch George Creek and 14 mi west of Fontenelle.

DRAINAGE AREA.--152 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,950 ft above sea level, from topographic map. Prior to May 5, 1970, at site 300 ft downstream at present datum.

REMARKS.--Estimated daily discharges: Oct. 30 to Mar. 30. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 780 acres upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 2	0600	205	6.50	June 8	1500	378	7.43
May 23	0200	189	6.41	June 14	2100	*809	*9.17
May 29	0600	362	7.35				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	18	26	18	17	17	41	104	212	201	61	27
2	20	19	26	17	17	17	51	90	225	188	59	28
3	21	19	26	17	17	17	57	51	279	185	56	29
4	25	20	26	17	17	18	58	43	282	199	55	28
5	30	21	25	17	17	20	63	43	286	180	57	27
6	32	21	24	19	17	21	65	60	348	168	53	27
7	27	22	24	20	18	23	71	65	329	159	51	27
8	23	21	23	20	18	26	71	62	342	149	50	28
9	22	20	21	20	18	29	51	60	341	139	48	28
10	21	20	21	20	17	30	40	69	280	135	49	30
11	21	21	21	20	16	30	34	95	242	135	51	33
12	20	21	22	20	16	30	34	95	248	138	47	29
13	20	20	22	20	16	30	41	89	314	145	44	27
14	20	20	23	20	15	30	48	79	577	125	41	26
15	22	20	21	20	14	30	39	76	669	115	39	25
16	25	20	23	20	15	30	33	87	677	107	38	24
17	27	20	24	20	16	30	35	97	627	101	40	23
18	24	20	25	20	16	30	35	109	588	97	38	24
19	24	20	27	20	16	30	33	128	528	96	37	26
20	23	20	25	19	16	30	35	145	476	96	36	26
21	21	20	25	19	16	30	35	156	507	90	35	26
22	21	19	25	19	16	30	33	157	276	89	38	28
23	21	19	25	18	16	30	34	173	256	89	40	28
24	21	21	25	18	16	29	30	148	245	85	45	29
25	21	26	25	18	16	28	30	127	237	80	42	29
26	20	26	25	19	16	28	43	153	236	76	38	31
27	21	26	25	19	16	28	56	265	234	70	35	33
28	20	25	24	18	16	28	102	338	238	69	34	34
29	19	24	22	17	---	31	102	322	223	67	31	34
30	19	25	20	17	---	30	122	297	210	62	30	34
31	18	---	19	17	---	29	---	275	---	61	28	---
TOTAL	690	634	735	583	457	839	1522	4058	10532	3696	1346	848
MEAN	22.3	21.1	23.7	18.8	16.3	27.1	50.7	131	351	119	43.4	28.3
MAX	32	26	27	20	18	31	122	338	677	201	61	34
MIN	18	18	19	17	14	17	30	43	210	61	28	23
AC-FT	1370	1260	1460	1160	906	1660	3020	8050	20890	7330	2670	1680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1995, BY WATER YEAR (WY)

MEAN	31.7	29.5	26.1	25.3	26.8	32.6	99.7	214	226	76.3	36.9	30.0
MAX	55.3	44.9	42.1	41.3	51.3	76.3	280	437	628	185	76.0	55.7
(WY)	1987	1952	1985	1985	1985	1986	1986	1980	1986	1975	1983	1965
MIN	19.1	18.6	13.5	14.3	15.0	18.7	35.1	32.1	20.3	17.2	10.2	12.7
(WY)	1978	1994	1990	1991	1958	1962	1977	1977	1977	1977	1992	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1952 - 1995	
ANNUAL TOTAL	12908.9		25940		--	
ANNUAL MEAN	35.4		71.1		71.2	
HIGHEST ANNUAL MEAN	--		--		155	
LOWEST ANNUAL MEAN	--		--		24.8	
HIGHEST DAILY MEAN	128	May 14	677	Jun 16	865	Jun 6 1986
LOWEST DAILY MEAN	9.1	Aug 26	14	Feb 15	5.6	Aug 14 1992
ANNUAL SEVEN-DAY MINIMUM	11	Aug 24	15	Feb 11	6.2	Aug 10 1992
INSTANTANEOUS PEAK FLOW	--	--	809	Jun 14	907	Apr 23 1986
INSTANTANEOUS PEAK STAGE	--	--	9.17	Jun 14	9.51	Apr 23 1986
ANNUAL RUNOFF (AC-FT)	25600		51450		51620	
10 PERCENT EXCEEDS	84		200		183	
50 PERCENT EXCEEDS	24		29		33	
90 PERCENT EXCEEDS	14		18		20	

09211150 FONTENELLE RESERVOIR NEAR FONTENELLE, WY

LOCATION.--Lat 42°02'00", long 110°04'00", in S¹/₂ sec.25 T.24 N., R.112 W., Lincoln County, Hydrologic Unit 14040101, at dam on Green River, 3.0 mi north of Fontenelle, and 3.5 mi upstream from Slate Creek.

DRAINAGE AREA.--4,280 mi², approximately.

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WSP 2125: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill dam completed by Bureau of Reclamation in April 1964. Capacity, 344,800 acre-ft between elevations 6,506.0 ft, crest of spillway, and 6,408.0 ft, invert of outlet pipe. Dead storage, below elevation 6,408.0 ft, 560 acre-ft. Figures given herein represent total contents. Water used for irrigation and power development.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 387,000 acre-ft, June 29, 1965, elevation, 6,511.01 ft; minimum daily, 5,680 acre-ft, July 28, 1967, elevation, 6,423.98 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 331,400 acre-ft, July 24, elevation, 6,504.24 ft; minimum daily, 86,400 acre-ft, May 13, minimum elevation, 6,461.56.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,490.89	233,700	-
Oct. 31	6,488.01	214,600	-19,100
Nov. 30	6,484.36	191,700	-22,900
Dec. 31	6,479.55	164,300	-27,400
CAL YR 1994	-	-	-49,700
Jan. 31	6,473.60	134,900	-29,400
Feb. 28	6,469.25	115,800	-19,100
Mar. 31	6,469.98	118,800	+3,000
Apr. 30	6,463.08	91,800	-27,000
May 31	6,466.81	105,900	+14,100
June 30	6,497.72	281,800	+175,900
July 31	6,502.61	318,700	+36,900
Aug. 31	6,500.61	303,300	-15,400
Sept. 30	6,500.09	299,400	-3,900
WTR YR 1995	-	-	+65,700

GREEN RIVER BASIN

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY

LOCATION.--Lat 42°01'16", long 110°02'57", in NW¹/₄ NW¹/₄ NE¹/₄ sec.31, T.24 N., R.111 W., Sweetwater County, Hydrologic Unit 14040103, on right bank 1.0 mi downstream from Fontenelle Dam, 2.5 mi upstream from Slate Creek, and 6.0 mi southeast of Fontenelle.

DRAINAGE AREA.--4,280 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1963 to current year.

REVISED RECORDS.--WSP 2125: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,378.13 ft above sea level.

REMARKS.--Estimated daily discharges: Oct. 21-25 and May 2. Records good. Flow completely regulated by Fontenelle Reservoir 1.0 mi upstream. (See sta 09211150.) Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 202,000 acres upstream from station. National Weather Service satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	877	849	854	854	811	808	1330	1260	1720	6470	4060	798
2	866	845	864	854	809	807	1320	1130	1770	6490	3510	820
3	858	840	902	854	817	802	1320	1070	1770	6520	3020	817
4	849	829	904	864	817	808	1340	1090	1770	6540	2800	798
5	845	835	910	842	808	808	1350	1190	1770	6600	2800	541
6	847	827	883	803	808	804	1360	1200	1850	6700	2820	502
7	848	826	856	808	816	798	1360	1190	2000	6720	2710	501
8	826	831	848	808	847	932	1360	1190	2330	6750	2520	790
9	826	827	854	803	848	1020	1360	1190	2610	6760	2240	952
10	826	827	854	821	893	1030	1360	1200	2680	6760	1840	940
11	832	828	866	798	904	1030	1360	1220	2700	6720	1620	598
12	836	817	873	798	919	1030	1360	1160	2820	6730	1640	485
13	840	829	873	798	853	1030	1360	1070	3340	6740	1660	490
14	847	829	874	801	826	1090	1360	1050	3670	6740	1640	494
15	836	818	890	798	826	1210	1370	1030	4120	6720	1630	641
16	831	817	883	798	824	1240	1370	1030	4440	6700	1630	808
17	836	826	883	798	826	1240	1370	1020	4780	6740	1650	801
18	831	826	892	798	826	1240	1350	1040	4990	6550	1620	928
19	822	808	877	800	825	1240	1350	1040	5230	6280	1620	1080
20	817	816	873	779	817	1280	1360	1040	5590	6040	1620	1100
21	820	817	873	779	817	1330	1360	1040	5900	5910	1520	1110
22	820	817	873	777	826	1330	1360	1040	6110	5920	1370	1110
23	820	825	873	772	822	1330	1360	1040	6340	5930	1260	1110
24	825	836	858	777	817	1330	1260	1150	6450	5940	1190	1110
25	825	836	854	779	817	1330	1220	1240	6480	5940	1190	1110
26	825	842	854	779	817	1330	1230	1250	6390	5690	1180	1110
27	828	845	854	794	810	1330	1230	1250	6360	5430	1180	1090
28	833	845	854	798	808	1330	1240	1260	6380	5160	1170	1040
29	836	851	854	793	---	1330	1230	1240	6370	5060	1030	1100
30	846	854	854	789	---	1330	1250	1250	6400	5050	916	1090
31	845	---	854	800	---	1330	---	1490	---	4620	829	---
TOTAL	25919	24918	26968	24914	23254	34877	39810	35660	125130	192920	57485	25864
MEAN	836	831	870	804	830	1125	1327	1150	4171	6223	1854	862
MAX	877	854	910	864	919	1330	1370	1490	6480	6760	4060	1110
MIN	817	808	848	772	808	798	1220	1020	1720	4620	829	485
AC-FT	51410	49420	53490	49420	46120	69180	78960	70730	248200	382700	114000	51300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1003	854	776	787	840	923	1526	2387	4439	3297	1639	1249																				
MAX	3138	1522	1300	1309	1818	1576	3134	5588	11240	8868	3466	7893																				
(WY)	1983	1984	1994	1992	1974	1986	1986	1985	1986	1986	1982	1965																				
MIN	291	308	272	273	262	365	370	463	465	364	367	285																				
(WY)	1989	1989	1968	1968	1968	1989	1968	1992	1977	1977	1977	1968																				

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1964 - 1995
ANNUAL TOTAL	320405	637719	--
ANNUAL MEAN	878	1747	1646
HIGHEST ANNUAL MEAN	--	--	3060
LOWEST ANNUAL MEAN	--	--	690
HIGHEST DAILY MEAN	1720	May 11	18600
LOWEST DAILY MEAN	454	Sep 25	209
ANNUAL SEVEN-DAY MINIMUM	474	Sep 19	251
INSTANTANEOUS PEAK FLOW	--	--	19400a
INSTANTANEOUS PEAK STAGE	--	--	18.74b
ANNUAL RUNOFF (AC-FT)	635500	1265000	1193000
10 PERCENT EXCEEDS	1120	5630	3650
50 PERCENT EXCEEDS	851	1030	1080
90 PERCENT EXCEEDS	560	803	484

a Caused by emergency release from Fontenelle Reservoir.

b From floodmarks.

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1967 to September 1976.

WATER TEMPERATURES: October 1967 to September 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
NOV											
14...	1300	836	342	8.8	6.5	-1.0	608	11.0	112	140	39
DEC											
19...	1215	851	400	8.7	2.0	2.0	606	11.5	105	170	47
JAN											
30...	1300	789	416	8.4	2.0	-1.0	609	11.7	106	190	51
MAR											
15...	1515	1250	426	8.2	4.0	8.0	605	10.3	99	190	52
APR											
18...	1330	1320	424	8.4	5.5	10.0	599	10.3	104	160	43
MAY											
16...	1205	1010	458	8.2	10.0	18.0	601	9.2	104	190	51
JUN											
26...	1215	6470	283	8.3	14.0	25.0	608	8.5	104	120	32
JUL											
18...	1420	6570	243	8.2	17.0	22.0	608	7.8	102	100	28
AUG											
16...	1100	1600	267	8.3	18.5	22.0	605	7.2	97	110	30
SEP											
08...	1120	951	337	8.4	17.0	20.0	608	8.3	108	130	33

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
NOV											
14...	11	16	0.6	1.5	128	48	2.9	0.2	8.4	210	204
DEC											
19...	13	21	0.7	1.6	145	74	3.7	0.2	8.7	265	256
JAN											
30...	14	21	0.7	1.6	150	79	3.5	0.2	9.1	272	270
MAR											
15...	15	19	0.6	1.7	148	76	3.5	0.2	9.1	278	266
APR											
18...	13	18	0.6	2.4	137	76	4.0	0.2	7.1	269	246
MAY											
16...	15	21	0.7	2.3	151	83	4.5	0.2	7.1	290	275
JUN											
26...	9.4	10	0.4	0.7	109	33	2.0	0.2	7.5	172	160
JUL											
18. .	8.4	7.8	0.3	1.1	101	20	1.6	0.1	7.0	141	135
AUG											
16. .	9.2	9.9	0.4	1.2	107	27	1.5	0.1	7.0	157	150
SEP											
08. .	11	19	0.7	1.4	115	56	2.2	0.2	6.9	206	199

GREEN RIVER BASIN

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
NOV 14...	0.29	452	<0.01	0.06	0.02	0.2	0.02	<0.01	<0.01	6	2
DEC 19...	0.36	609	<0.01	<0.05	0.02	0.2	<0.01	<0.01	<0.01	7	9
JAN 30...	0.37	579	<0.01	0.05	0.05	<0.2	0.02	0.02	<0.01	4	35
MAR 15...	0.38	938	<0.01	0.05	0.02	0.3	0.01	<0.01	<0.01	29	44
APR 18...	0.37	959	0.01	<0.05	<0.02	0.3	0.02	<0.01	<0.01	20	8
MAY 16...	0.39	791	<0.01	<0.05	0.02	<0.2	<0.01	<0.01	<0.01	16	35
JUN 26...	0.23	3000	0.02	0.06	0.03	0.3	0.02	<0.01	<0.01	19	2
JUL 18...	0.19	2500	<0.01	<0.05	0.03	0.3	0.03	<0.01	0.01	36	2
AUG 16...	0.21	678	<0.01	0.05	0.02	0.2	0.02	0.01	0.02	23	32
SEP 08...	0.28	556	<0.01	<0.05	<0.02	0.3	0.05	0.03	0.03	4	26

09213500 BIG SANDY RIVER NEAR FARSON, WY

LOCATION.--Lat 42°19'01", long 109°29'06", in NW¹/₄ SE¹/₄ NW¹/₄ sec.17, T.27 N., R.106 W., Sublette County, Hydrologic Unit 14040104, on left upstream side of Eden Canal diversion, about 1.0 mi upstream from high-water line of Big Sandy Reservoir, 14.5 mi north of Farson, and 24.5 mi upstream from Little Sandy Creek.

DRAINAGE AREA.--322 mi².

PERIOD OF RECORD.--October 1914 to September 1917, October 1920 to October 1924, October 1926 to September 1934, April 1953 to current year (no winter records since 1971). Prior to October 1968, published as Big Sandy Creek near Farson. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1733: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,770 ft above sea level, from topographic map. Prior to Apr. 28, 1921, nonrecording gage, and Apr. 28, 1921, to Aug. 3, 1934, water-stage recorder at site 0.5 mi upstream at different datum. Apr. 17, 1953, to Nov. 11, 1954, water-stage recorder at site 1.5 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Apr. 1, 2 and Sept. 29, 30. Records good. Diversions for irrigation of about 1,000 acres upstream from station. The Eden Canal, which bypasses the station, has not been used since station was established at present site in November 1954. National Weather Service satellite telemeter at station. Result of discharge measurement, in cubic feet per second, made during the period when station was not in operation is given below:

Oct. 17 . . . 24.8

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 23	1130	453	6.29	June 17	0530	*1,720	*8.46
May 28	0230	1,710	8.44	June 29	0500	1,150	7.72
June 7	0330	1,080	7.62	July 9	0430	958	7.42

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	94	40	243	664	178	51
2	---	---	---	---	---	---	98	41	357	622	164	48
3	---	---	---	---	---	---	102	48	477	622	150	47
4	---	---	---	---	---	---	66	62	608	692	138	46
5	---	---	---	---	---	---	55	61	637	596	129	45
6	---	---	---	---	---	---	54	62	712	553	120	43
7	---	---	---	---	---	---	55	68	1000	638	114	47
8	---	---	---	---	---	---	51	59	750	758	108	43
9	---	---	---	---	---	---	50	53	657	828	104	41
10	---	---	---	---	---	---	40	57	588	809	103	45
11	---	---	---	---	---	---	40	72	452	766	102	46
12	---	---	---	---	---	---	37	94	456	751	121	48
13	---	---	---	---	---	---	36	115	694	790	116	46
14	---	---	---	---	---	---	38	133	959	782	106	41
15	---	---	---	---	---	---	44	97	1300	638	99	39
16	---	---	---	---	---	---	41	99	1470	520	92	37
17	---	---	---	---	---	---	41	136	1510	466	86	34
18	---	---	---	---	---	---	41	136	1110	425	80	35
19	---	---	---	---	---	---	38	151	835	407	77	38
20	---	---	---	---	---	---	37	180	757	418	74	41
21	---	---	---	---	---	---	36	207	785	433	70	46
22	---	---	---	---	---	---	33	256	876	376	67	41
23	---	---	---	---	---	---	33	405	851	357	67	41
24	---	---	---	---	---	---	32	318	740	318	73	39
25	---	---	---	---	---	---	33	264	696	285	86	39
26	---	---	---	---	---	---	32	259	769	258	85	38
27	---	---	---	---	---	---	31	564	818	231	77	38
28	---	---	---	---	---	---	33	708	976	214	71	38
29	---	---	---	---	---	---	35	265	1030	208	67	37
30	---	---	---	---	---	---	40	210	862	196	61	37
31	---	---	---	---	---	---	---	199	---	189	55	---
TOTAL	---	---	---	---	---	---	1396	5419	23975	15810	3040	1255
MEAN	---	---	---	---	---	---	46.5	175	799	510	98.1	41.8
MAX	---	---	---	---	---	---	102	708	1510	828	178	51
MIN	---	---	---	---	---	---	31	40	243	189	55	34
AC-FT	---	---	---	---	---	---	2770	10750	47550	31360	6030	2490
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1995, BY WATER YEAR (WY)												
MEAN	30.2	21.2	13.2	11.1	12.1	21.8	60.6	236	418	177	50.0	30.7
MAX	75.6	41.0	21.7	22.9	26.0	46.7	148	454	905	510	155	83.9
(WY)	1928	1934	1969	1969	1969	1967	1983	1928	1986	1995	1930	1927
MIN	8.90	9.17	3.00	.30	.10	2.98	22.1	89.1	55.5	14.3	8.48	2.07
(WY)	1932	1961	1960	1960	1960	1961	1975	1933	1934	1934	1931	1931

SUMMARY STATISTICS
ANNUAL MEAN
HIGHEST ANNUAL MEAN
LOWEST ANNUAL MEAN
HIGHEST DAILY MEAN
LOWEST DAILY MEAN
ANNUAL SEVEN-DAY MINIMUM
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE

FOR 1995 WATER YEAR*

WATER YEARS 1915 - 1971

ANNUAL RUNOFF (AC-FT)

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

* During period of operation.

For period of record through 1995.

62800

272

25

9.0

09213700 BIG SANDY RESERVOIR NEAR FARSON, WY

LOCATION.--Lat 42°14'57", long 109°25'43", in NE¹/₄ NW¹/₄ NW¹/₄ sec.11, T.26 N., R.106 W., Sweetwater County, Hydrologic Unit 14040104, 10.1 mi north of Farson and 20.5 mi upstream from Little Sandy Creek.

DRAINAGE AREA.--386 mi².

PERIOD OF RECORD.--May 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,770.00 ft above sea level (levels by U.S. Bureau of Reclamation).

REMARKS.--Estimated daily contents: June 20-26. Records good. Reservoir is formed by an earthfill dam, storage began in April 1953. Total capacity, 54,385 acre-ft at elevation 6,762.8 ft, crest of spillway, including 1,425 acre-ft of dead storage in a permanent pool at elevation 6,720.0, trash-rack sill. Reservoir is used for storage of irrigation water and for recreation. Figures given herein represent active storage. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents recorded, 41,100 acre-ft, June 18, 19, 1995, elevation, 6,758.59 ft, June 18, 19, 1995; minimum contents recorded, 920 acre-ft, Sept. 15, 1988, elevation, 6,724.66 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents recorded, 41,100 acre-ft, June 18 and 19, elevation, 6,758.59 ft, June 18, 19; minimum contents recorded, 1,810 acre-ft, Oct. 1, elevation, 6,727.90 ft.

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

6,720	0	6,740	8,655	6,760	44,905
6,730	2,545	6,750	22,155		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1840	3460	4470	5270	6080	7080	12600	15000	25700	39900	37600	26300
2	1870	3480	4490	5300	6110	7120	12700	15100	26100	39700	37400	26100
3	1920	3530	4510	5320	6130	7180	12800	15200	26800	39600	37200	25900
4	1990	3540	4550	5350	6170	7250	12900	15300	27600	39600	36900	25600
5	2040	3390	4570	5380	6200	7280	13000	15500	28700	39600	36400	25500
6	2090	3660	4600	5410	6240	7320	13100	15600	29700	39500	36000	25200
7	2140	3750	4630	5390	6280	7360	13200	15700	31200	39600	35500	24900
8	2190	3810	4660	5400	6310	7400	13300	15800	32700	39700	34900	24600
9	2260	3860	4690	5420	6350	7430	13400	15900	33800	40000	34400	24400
10	2310	3910	4690	5430	6390	7480	13400	16100	34700	40100	34100	24100
11	2370	3960	4710	5470	6430	7550	13600	16200	35500	40100	33600	23900
12	2410	4030	4750	5490	6460	7830	13600	16400	36000	40100	33200	23700
13	2460	4070	4750	5510	6530	8180	13700	16800	36600	40100	32700	23500
14	2500	4070	4790	5540	6580	8490	13700	17000	37600	40300	32200	23300
15	2540	4080	4810	5580	6620	8890	13800	17300	39000	40200	31800	23100
16	2610	4100	4810	5610	6650	9250	13800	17500	40100	40000	31400	23200
17	2660	4120	4870	5630	6680	9980	13900	17700	40800	39800	31000	23200
18	2740	4020	4910	5660	6710	10400	14000	18000	41100	39600	30500	23300
19	2800	4180	4920	5690	6760	10800	14100	18300	41000	39400	30100	23300
20	2860	4200	4950	5710	6780	11000	14100	18600	40900	39300	29700	23300
21	2920	4220	4970	5730	6810	11300	14200	19000	40700	39300	29400	23400
22	2980	4240	5000	5750	6830	11600	14300	19500	40400	39300	28900	23500
23	3040	4260	5020	5790	6860	11900	14400	20100	40100	39200	28500	23500
24	3100	4290	5060	5820	6900	12000	14400	20700	40000	39100	28100	23600
25	3160	4310	5080	5850	6940	12100	14500	21200	39800	39000	27900	23600
26	3210	4340	5110	5880	6970	12200	14600	21700	39700	38900	27700	23700
27	3260	4360	5150	5920	7010	12200	14700	22500	39600	38600	27500	23800
28	3310	4380	5180	5950	7040	12300	14800	23900	39700	38400	27300	23800
29	3350	4400	5210	5970	---	12300	14800	24600	39800	38300	27100	23900
30	3380	4410	5230	6010	---	12400	14900	25100	39900	38100	26800	23900
31	3410	---	5260	6050	---	12500	---	25400	---	37800	26500	---
MAX	3410	4410	5260	6050	7040	12500	14900	25400	41100	40300	37600	26300
MIN	1840	3390	4470	5270	6080	7080	12600	15000	25700	37800	26500	23100
(#)	6732.1	6734.0	6735.5	6736.7	6738.0	6743.8	6745.6	6751.7	6758.1	6757.3	6752.2	6751.0
(*)	+1,600	+1,000	+850	+790	+990	+5,460	+2,400	+10,500	+14,500	-2,100	-11,300	-2,600

CAL YR 1994 MAX 38900 MIN 1310 (*)-20,140
WTR YR 1995 MAX 41100 MIN 1840 (*)+22,090

(#) Elevation, in feet, at end of month.

(*) Change of contents, in acre-feet.

09215550 BIG SANDY RIVER BELOW FARSON, WY

LOCATION.--Lat 42°04'24", long 109°28'43", in SW¹/₄ SE¹/₄ NE¹/₄ sec.12, T.24 N., R.107 W., Sweetwater County, Hydrologic Unit 14040104, on left bank 2.7 mi northwest of Eden, 3.0 mi southwest of Farson, and 3.8 mi downstream from Little Sandy Creek
DRAINAGE AREA.--1,097 mi², of which 12.9 mi² is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1981 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,520 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 30 to Nov. 1, Nov. 3-5, and Nov. 13 to Mar. 16. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 19,300 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	15	10	6.4	8.0	30	30	32	47	415	57	39
2	14	14	11	6.4	8.2	29	37	41	41	408	53	38
3	16	13	11	6.6	8.2	22	90	73	54	358	51	43
4	20	13	11	7.0	8.0	23	101	252	46	316	48	44
5	21	13	10	7.4	8.0	25	114	161	43	307	49	43
6	20	16	10	7.8	8.2	27	143	70	41	305	49	43
7	20	16	9.4	8.2	8.0	29	125	50	36	280	46	41
8	18	16	9.0	8.4	8.0	31	93	41	34	280	43	39
9	16	16	9.0	8.8	7.8	35	77	37	44	334	41	38
10	16	16	9.0	8.6	7.6	38	55	34	59	421	42	39
11	16	14	8.8	8.2	7.2	150	40	33	54	480	45	40
12	15	15	8.6	8.2	7.4	900	35	33	46	495	47	38
13	15	17	8.2	8.4	7.6	800	31	38	41	514	47	40
14	15	19	7.8	8.2	7.2	700	29	47	38	542	47	41
15	14	20	7.4	8.0	7.0	420	29	56	36	558	48	36
16	15	16	7.6	7.6	7.2	340	30	63	100	540	51	34
17	19	12	7.8	7.2	7.6	315	31	44	405	473	54	28
18	21	12	8.0	7.0	8.0	279	31	36	822	362	47	26
19	20	11	7.8	6.8	8.4	381	31	35	804	292	47	28
20	18	10	7.6	6.9	9.0	368	43	32	678	265	47	27
21	17	9.0	7.4	6.6	10	219	35	30	437	243	46	27
22	16	9.2	7.4	6.6	12	253	31	31	324	245	47	31
23	15	9.2	7.4	6.6	14	254	31	32	311	232	46	30
24	16	9.2	7.6	6.8	20	129	34	30	317	205	52	28
25	16	9.2	7.8	7.0	27	89	36	33	292	177	49	27
26	17	9.4	7.8	7.2	29	53	34	36	252	149	42	26
27	18	9.6	7.8	7.4	28	44	33	89	241	117	41	25
28	16	10	7.6	7.4	26	39	34	169	272	87	39	24
29	15	10	7.4	7.2	---	36	34	171	319	62	39	25
30	14	10	7.0	7.2	---	33	34	96	383	57	40	26
31	15	---	6.6	7.4	---	32	---	61	---	58	42	---
TOTAL	517	388.8	260.8	229.5	322.6	6123	1531	1986	6617	9577	1442	1014
MEAN	16.7	13.0	8.41	7.40	11.5	198	51.0	64.1	221	309	46.5	33.8
MAX	21	20	11	8.8	29	900	143	252	822	558	57	44
MIN	13	9.0	6.6	6.4	7.0	22	29	30	34	57	39	24
AC-FT	1030	771	517	455	640	12140	3040	3940	13120	19000	2860	2010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1995, BY WATER YEAR (WY)

	MEAN	25.6	25.8	13.1	8.47	10.7	49.8	70.4	54.9	108	78.2	41.3	32.7
MAX	51.4	105	39.2	30.5	37.8	198	224	138	515	309	78.9	53.9	
(WY)	1984	1984	1984	1984	1982	1995	1985	1983	1986	1995	1984	1984	
MIN	11.4	7.24	3.82	.34	2.17	6.77	15.7	7.62	14.7	17.9	18.8	17.5	
(WY)	1991	1990	1990	1991	1990	1988	1989	1990	1989	1989	1989	1994	

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1981 - 1995
ANNUAL TOTAL	7704.6	30008.7	--
ANNUAL MEAN	21.1	82.2	44.0
HIGHEST ANNUAL MEAN	--	--	95.5
LOWEST ANNUAL MEAN	--	--	12.0
HIGHEST DAILY MEAN	99 Mar 23	900 Mar 12	900 Mar 12 1995
LOWEST DAILY MEAN	4.8 Feb 13	6.4 Jan 1, 2	.00 Dec 23-27 1990, Jan 22 to Feb 4 1991
ANNUAL SEVEN-DAY MINIMUM	5.2 Feb 9	6.8 Jan 18	.00 Jan 22 1991
INSTANTANEOUS PEAK FLOW	--	1400a Jun 18	1400a Jun 18 1995
INSTANTANEOUS PEAK STAGE	--	8.30b Mar 12	8.30b Mar 12 1995
ANNUAL RUNOFF (AC-FT)	15280	59520	31870
10 PERCENT EXCEEDS	34	285	70
50 PERCENT EXCEEDS	19	31	23
90 PERCENT EXCEEDS	6.8	7.6	6.5

a Gage height 7.44 ft.

b Backwater from ice.

GREEN RIVER BASIN

09215550 BIG SANDY RIVER BELOW FARSON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1982 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1981 to September 1986.

WATER TEMPERATURES: December 1981 to September 1986.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE	PH WATER WHOLE FIELD	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	BARO- METRIC PRES- SURE	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	
		(00061)	(US/CM) (00095)	(STAND- ARD UNITS) (00400)			(MM OF HG) (00025)		(00300)	(00301)
NOV 17...	1310	12	2660	8.4	0.0	-5.0	590	11.1	99	
DEC 20...	1240	7.8	2120	7.9	0.0	1.0	605	7.5	65	
JAN 26...	1145	7.2	2100	7.8	0.0	1.0	596	6.7	59	
MAR 15...	1025	399	310	8.4	0.0	6.0	605	10.2	88	
APR 20...	1200	49	2020	8.5	5.0	4.0	591	9.9	101	
MAY 24...	1205	30	2430	8.5	8.0	9.0	601	9.8	106	
JUN 28...	1355	284	550	8.2	17.0	18.0	605	7.5	98	
JUL 18...	1030	343	420	8.0	18.0	25.0	606	6.8	91	
AUG 17...	0930	50	1340	8.3	14.0	19.5	603	8.4	104	
SEP 06...	0910	58	1600	8.3	13.0	11.0	609	8.7	104	
DATE		HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV 17...	730	190	63	370	6	2.9	273	1100	51	
DEC 20...	680	180	57	260	4	2.5	239	940	35	
JAN 26...	710	190	57	250	4	2.5	227	950	32	
MAR 15...	73	19	6.1	44	2	2.2	119	82	3.9	
APR 20...	370	89	35	300	7	3.6	241	750	47	
MAY 24...	570	140	53	360	7	3.5	235	1000	54	
JUN 28...	140	39	9.7	54	2	0.30	89	160	9.0	
JUL 18...	110	32	7.3	39	2	1.4	78	110	7.0	
AUG 17...	370	100	30	160	4	2.6	172	480	25	
SEP 06...	420	110	35	190	4	2.8	192	610	31	

GREEN RIVER BASIN

09215550 BIG SANDY RIVER BELOW FARSON, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
NOV								
17...	1.0	12	2120	1950	2.88	97.3	20	170
DEC								
20...	0.8	13	1700	1630	2.31	35.8	22	260
JAN								
26...	0.9	14	1740	1630	2.37	33.8	13	240
MAR								
15...	0.2	6.5	227	235	0.31	245	190	35
APR								
20...	0.8	11	1490	1380	2.03	197	14	67
MAY								
24...	0.8	12	1860	1760	2.53	151	<9	130
JUN								
28...	0.3	9.3	361	335	0.49	277	24	46
JUL								
18...	0.2	8.5	270	252	0.37	250	21	37
AUG								
17...	0.5	11	980	912	1.33	132	21	73
SEP								
06...	0.6	8.9	1150	1100	1.56	180	5	89

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY

LOCATION.--Lat 41°56'43", long 109°41'04", in NE¹/₄ SW¹/₄ NW¹/₄ sec.29, T.23 N., R.108 W., Sweetwater County, Hydrologic Unit 14040104, on left bank 0.2 mi upstream from Gasson Bridge and 14.5 mi southwest of Eden.

DRAINAGE AREA.--1,720 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1972 to current year.

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

REMARKS.--Estimated daily discharges: Nov. 20 to Mar.8 and May 2. Records fair except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 19,300 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	47	35	27	37	39	59	53	93	428	103	95
2	49	50	36	27	38	46	57	58	81	444	97	89
3	54	47	35	28	38	43	76	67	84	406	93	89
4	59	42	35	30	37	31	120	165	87	367	93	96
5	62	44	35	31	37	35	123	242	80	349	94	102
6	60	57	35	32	37	38	145	134	78	351	93	96
7	58	53	33	33	37	44	163	94	72	335	96	95
8	56	52	29	33	36	50	135	77	70	310	92	95
9	54	48	29	34	36	53	113	68	74	334	88	91
10	52	50	29	33	35	58	97	64	79	408	90	88
11	52	50	30	32	35	85	74	61	88	468	92	92
12	51	49	30	32	34	606	63	61	80	503	94	94
13	50	50	30	33	34	1070	58	67	72	519	93	92
14	49	42	29	32	33	482	53	76	66	535	94	53
15	49	37	28	31	32	466	50	81	66	550	98	88
16	50	46	29	31	34	515	54	88	67	543	100	89
17	54	43	31	31	35	431	57	86	236	491	105	80
18	59	42	31	30	37	327	56	68	700	399	102	71
19	60	42	30	29	39	367	54	63	823	338	94	69
20	54	38	29	28	41	479	55	60	712	305	93	69
21	51	33	29	28	42	306	60	58	542	283	92	68
22	50	30	29	28	43	276	52	58	421	280	92	66
23	48	31	29	29	44	348	50	58	386	272	94	69
24	48	31	30	31	45	236	52	57	398	240	107	70
25	49	31	31	33	46	150	54	58	379	222	104	66
26	48	32	31	35	45	104	56	64	332	201	95	66
27	49	33	31	35	44	79	53	106	308	173	94	64
28	49	34	31	33	38	67	54	171	305	147	98	63
29	46	35	31	33	---	58	55	214	342	121	94	62
30	46	35	30	33	---	60	55	166	387	106	94	62
31	44	---	28	34	---	59	---	119	---	100	93	---
TOTAL	1611	1254	958	969	1069	7008	2203	2862	7508	10528	2961	2429
MEAN	52.0	41.8	30.9	31.3	38.2	226	73.4	92.3	250	340	95.5	81.0
MAX	62	57	36	35	46	1070	163	242	823	550	107	102
MIN	44	30	28	27	32	31	50	53	66	100	88	62
AC-FT	3200	2490	1900	1920	2120	13900	4370	5680	14890	20880	5870	4820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1995, BY WATER YEAR (WY)

	MEAN	52.8	54.6	38.5	31.3	34.5	74.5	120	78.6	138	111	80.3	73.3
MAX	102	149	60.4	55.5	74.0	226	462	208	627	340	119	100	100
(WY)	1984	1984	1976	1984	1982	1995	1980	1984	1986	1995	1983	1983	1983
MIN	36.0	31.5	22.1	17.4	16.4	36.4	28.3	19.7	29.4	30.5	32.4	40.3	40.3
(WY)	1990	1991	1991	1990	1993	1976	1990	1990	1990	1989	1989	1989	1989

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1972 - 1995
ANNUAL TOTAL	17630	41360	--
ANNUAL MEAN	48.3	113	73.5
HIGHEST ANNUAL MEAN	--	--	139
LOWEST ANNUAL MEAN	--	--	30.6
HIGHEST DAILY MEAN	150	Mar 22	1070
LOWEST DAILY MEAN	19	Feb 13	27
ANNUAL SEVEN-DAY MINIMUM	20	Feb 10	29
INSTANTANEOUS PEAK FLOW	--	--	1950
INSTANTANEOUS PEAK STAGE	--	--	8.43
ANNUAL RUNOFF (AC-FT)	34970	82040	53270
10 PERCENT EXCEEDS	62	334	112
50 PERCENT EXCEEDS	49	59	54
90 PERCENT EXCEEDS	29	31	29

a From rating curve extended above 2,000 ft³/s on basis of slope-area measurement of peak flow.

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1975 to January 1980, June 1981 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1981 to September 1986.

WATER TEMPERATURES: October 1981 to September 1986.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
NOV									
17...	1115	38	3450	8.4	0.0	-5.0	595	11.4	101
DEC									
19...	1030	30	3700	8.2	0.0	2.0	608	9.2	80
JAN									
26...	1440	35	3640	8.1	0.0	0.0	600	9.3	82
MAR									
15...	1240	441	710	8.3	2.0	12.0	610	10.6	96
APR									
18...	1105	53	3300	8.3	6.0	5.0	602	9.7	100
MAY									
24...	1025	57	3280	8.4	6.0	7.0	605	10.0	103
JUN									
28...	1200	307	998	8.3	17.0	18.0	610	7.1	93
JUL									
18...	1220	386	725	8.2	20.0	25.0	610	7.0	97
AUG									
16...	1325	100	2290	8.4	18.0	29.0	606	8.3	112
SEP									
06...	1125	98	2300	8.3	12.0	22.0	604	9.3	110

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV									
17...	1100	230	130	500	7	3.8	274	1800	200
DEC									
19...	1200	240	150	540	7	3.8	288	1900	39
JAN									
26...	1200	230	140	520	7	3.2	284	1900	36
MAR									
15...	170	38	18	88	3	2.6	119	250	6.8
APR									
18...	830	170	99	440	7	3.8	266	1600	46
MAY									
24...	860	180	100	470	7	3.7	266	1500	49
JUN									
28...	240	58	23	110	3	<0.1	112	350	12
JU									
18...	180	46	17	74	2	1.5	94	250	8.3
AUG									
16...	650	140	72	290	5	2.9	206	1000	30
SEP									
06...	650	140	73	290	5	3.0	205	1000	29

GREEN RIVER BASIN

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
NOV								
17...	1.0	13	3170	3040	4.31	325	10	15
DEC								
19...	1.0	15	3260	3060	4.43	264	190	85
JAN								
26...	1.1	14	3290	3010	4.47	311	<9	36
MAR								
15...	0.3	6.7	504	482	0.69	600	78	31
APR								
18...	0.9	12	2710	2530	3.69	388	<9	17
MAY								
24...	1.0	12	2700	2480	3.67	547	<9	11
JUN								
28...	0.4	9.9	669	631	0.91	723	13	9
JUL								
18...	0.2	9.0	479	462	0.65	499	51	10
AUG								
16...	0.6	9.6	1790	1670	2.43	483	<9	7
SEP								
06...	0.7	7.3	1790	1670	2.43	401	<9	12

09217000 GREEN RIVER NEAR GREEN RIVER, WY

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

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

WATER-DISCHARGE RECORDS

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. 14 to Mar. 6 and June 29 to Aug. 3. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	816	831	820	700	690	730	1290	1280	1710	6700	4100	922
2	817	836	840	700	720	760	1300	1340	1810	6800	3500	877
3	825	854	820	700	720	740	1300	1440	1800	6900	3100	875
4	912	850	820	720	720	740	1320	1220	1770	6800	2960	876
5	892	846	820	740	720	760	1360	1280	1760	6800	2820	906
6	911	846	800	740	720	800	1370	1410	1740	7000	2820	733
7	882	846	760	740	720	826	1400	1330	1840	7000	2830	595
8	862	846	760	760	710	823	1430	1310	2000	7000	2680	589
9	876	846	760	760	720	946	1410	1300	2540	7000	2510	750
10	872	846	760	740	700	1030	1360	1290	2640	7000	2190	1020
11	862	846	770	740	680	1100	1350	1240	2630	6900	1810	1020
12	871	849	780	740	680	1490	1350	1270	2670	6900	1630	798
13	847	846	790	760	680	1930	1360	1270	2850	7000	1610	553
14	877	800	780	760	660	1710	1340	1200	3240	7000	1600	535
15	869	740	780	780	640	1420	1310	1110	3520	7100	1600	539
16	869	720	810	780	660	1580	1320	1080	4070	6900	1610	590
17	875	720	800	800	680	1560	1330	1080	4260	6800	1620	836
18	882	740	790	790	700	1470	1330	1060	4960	6600	1610	829
19	869	740	780	780	740	1420	1320	1010	5480	6400	1610	914
20	869	720	760	740	740	1470	1320	1010	5910	6200	1610	1110
21	861	720	740	720	740	1570	1310	1020	6140	6200	1610	1120
22	855	730	740	710	740	1450	1340	1010	6280	6200	1530	1140
23	846	740	740	700	760	1440	1350	1090	6340	6100	1430	1130
24	846	760	740	700	760	1490	1340	1130	6610	6000	1360	1110
25	831	760	720	720	760	1380	1250	1210	6690	6000	1290	1110
26	831	780	730	740	750	1350	1260	1350	6690	5900	1260	1110
27	831	780	740	720	740	1310	1250	1520	6670	5600	1250	1110
28	831	780	740	710	740	1300	1270	1530	6660	5300	1240	1110
29	831	790	740	690	---	1300	1300	1530	6660	5200	1230	1080
30	831	800	740	690	---	1300	1310	1510	6600	5100	1110	1120
31	831	---	720	690	---	1290	---	1510	---	4700	1010	---
TOTAL	26580	23808	23890	22760	19990	38485	39850	38940	124540	199100	60140	27007
MEAN	857	794	771	734	714	1241	1328	1256	4151	6423	1940	900
MAX	912	854	840	800	760	1930	1430	1530	6690	7100	4100	1140
MIN	816	720	720	690	640	730	1250	1010	1710	4700	1010	535
AC-FT	52720	47220	47390	45140	39650	76330	79040	77240	247000	394900	119300	53570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1995, BY WATER YEAR (WY)

	MEAN	950	823	692	703	788	1006	1676	2579	4796	3270	1581	1140
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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1952 - 1995
ANNUAL TOTAL	307767	645090	--
ANNUAL MEAN	843	1767	1669
HIGHEST ANNUAL MEAN	--	--	3089
LOWEST ANNUAL MEAN	--	--	689
HIGHEST DAILY MEAN	1540	May 11 7100	Jul 15 16700
LOWEST DAILY MEAN	416	Sep 21 535	Sep 14 170
ANNUAL SEVEN-DAY MINIMUM	438	Sep 20 669	Feb 11 214
INSTANTANEOUS PEAK FLOW	--	7100a	Jul 15 16800b
INSTANTANEOUS PEAK STAGE	--	--	8.53
ANNUAL RUNOFF (AC-FT)	610500	1280000	1209000
10 PERCENT EXCEEDS	1100	5900	3730
50 PERCENT EXCEEDS	831	1020	1030
90 PERCENT EXCEEDS	497	720	440

a Highest daily mean, estimated. Instantaneous peak at least this high.

b Caused by emergency release from Fontenelle Reservoir.

GREEN RIVER BASIN

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1951 to September 1992.

WATER TEMPERATURES: May 1951 to September 1992.

SUSPENDED-SEDIMENT DISCHARGE: May 1951 to September 1992.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
NOV 16...	1430	734	502	8.9	1.5	0.0	600	12.1	110
JAN 31...	1030	660	585	8.5	0.0	5.0	615	10.9	93
MAR 21...	1400	1540	513	8.4	6.0	15.5	601	10.2	104
MAY 18...	0900	1090	681	8.7	12.0	13.0	613	8.8	102
JUL 19...	0900	6400	270	8.4	17.0	14.0	618	7.2	92
SEP 07...	0825	602	600	8.6	15.0	15.0	617	8.5	105

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV 16...	180	45	16	40	1	1.7	136	130	5.2
JAN 31...	220	57	20	44	1	1.7	160	150	10
MAR 21...	170	45	15	43	1	2.0	134	120	6.0
MAY 18...	220	57	20	57	2	2.5	165	180	8.9
JUL 19...	110	30	9.2	12	0.5	1.1	102	33	2.1
SEP 07...	190	45	19	54	2	1.5	131	170	6.3

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
NOV 16...	0.2	7.1	335	327	0.46	664	10	3
JAN 31...	0.3	7.7	336	387	0.46	599	4	4
MAR 21...	0.3	7.1	338	319	0.46	1410	12	11
MAY 18...	0.3	5.3	447	430	0.61	1320	8	9
JUL 19...	0.1	6.8	165	155	0.22	2930	22	2
SEP 07...	0.2	4.9	391	379	0.53	636	<3	3

GREEN RIVER BASIN

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09217010 GREEN RIVER BELOW GREEN RIVER, WY

LOCATION.--Lat 41°29'46", long 109°26'17", in SW¹/₄ SE¹/₄ NW¹/₄ sec.36, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, at bridge on county road, 1.7 mi downstream from Bitter Creek, 2.7 mi southeast of town of Green River, and 3.3 mi upstream from Logan Draw.

PERIOD OF RECORD.--Water years 1974 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N) (00625)	PHOS- PHORUS TOTAL (MG/L) AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L) AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) AS P) (00671)
NOV												
16...	1645	734	570	1.5	-2.0	0.01	0.10	0.03	0.2	0.03	0.03	0.03
JAN												
31...	0805	660	595	0.0	-2.5	<0.01	0.12	0.11	0.3	0.02	0.03	0.03
MAR												
22...	0920	1390	574	5.0	3.0	0.01	0.11	0.05	0.3	0.03	0.02	0.02
MAY												
18...	1045	1090	743	13.0	13.0	<0.01	0.07	0.03	0.4	0.07	<0.01	0.02
JUL												
19...	1050	6400	277	18.0	21.0	<0.01	<0.05	0.02	0.4	0.04	<0.01	0.01
SEP												
07...	1000	602	648	15.0	16.0	<0.01	0.06	<0.02	0.4	0.09	0.03	0.03

09217900 BLACKS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 40°57'33", long 110°34'46", in SW¹/₄ SW¹/₄ SW¹/₄ sec.27, T.3 N., R.12 E., Summit County, 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. 19-26, Oct. 28 to Nov. 1, Nov. 4, 8-11, and Nov. 14 to Apr. 1. 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 (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 5	2215	1,220	4.30	July 3	0600	1,690	4.75
June 15	2015	*2,210	*5.17	July 12	2230	1,870	4.90
June 27	2400	1,770	4.82				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	52	33	28	31	24	28	39	403	1130	331	104
2	51	42	33	27	32	24	29	45	557	1080	306	105
3	58	40	33	26	33	25	29	42	577	1500	292	105
4	67	42	34	25	33	24	33	42	532	974	277	101
5	89	57	33	26	33	23	33	46	739	842	264	125
6	72	54	33	28	33	22	34	45	969	1040	253	105
7	66	51	32	29	32	22	38	45	657	1310	246	101
8	58	44	31	30	31	24	35	45	512	1280	244	103
9	58	43	30	31	29	26	40	51	407	1200	242	94
10	60	43	31	32	28	27	33	67	390	1340	242	89
11	63	44	32	32	28	26	35	75	535	1350	277	83
12	60	42	32	31	28	25	35	73	970	1410	254	80
13	59	34	33	32	27	26	40	69	1450	1300	245	76
14	58	28	33	32	27	27	40	79	1700	989	226	72
15	60	25	32	31	26	26	38	108	1870	849	206	68
16	64	27	33	29	27	25	40	140	1530	767	196	67
17	67	28	35	28	28	26	38	122	1050	736	192	70
18	65	26	34	28	28	27	34	140	919	737	190	71
19	56	24	34	29	29	26	34	166	989	750	180	66
20	56	26	35	28	30	25	33	212	1180	650	174	61
21	54	27	34	26	30	26	34	267	1220	592	184	62
22	56	25	33	25	30	24	33	305	1140	528	185	58
23	54	23	32	23	29	23	33	325	1110	487	176	57
24	51	24	33	25	28	23	35	276	1190	454	170	55
25	52	26	35	27	26	21	33	259	1250	429	156	53
26	52	29	34	29	26	22	34	240	1310	411	146	53
27	57	29	33	28	25	22	38	213	1430	399	140	52
28	50	29	32	28	25	22	43	209	1530	387	136	51
29	44	29	31	27	---	20	42	227	1330	384	131	63
30	33	31	30	26	---	23	40	263	1220	387	119	65
31	40	---	29	28	---	26	---	328	---	366	105	---
TOTAL	1779	1044	1012	874	812	752	1064	4563	30666	26058	6485	2315
MEAN	57.4	34.8	32.6	28.2	29.0	24.3	35.5	147	1022	841	209	77.2
MAX	89	57	35	32	33	27	43	328	1870	1500	331	125
MIN	33	23	29	23	25	20	28	39	390	366	105	51
AC-FT	3530	2070	2010	1730	1610	1490	2110	9050	60830	51690	12860	4550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	
MEAN	54.5	59.1	50.8	26.4	23.7	25.2	50.6	394	788	346	114	69.0																			
MAX	136	482	452	41.4	36.9	38.6	112	789	1273	1003	232	157																			
(WY)	1983	1990	1990	1974	1974	1969	1985	1984	1983	1975	1983	1982																			
MIN	23.9	22.1	11.1	6.73	9.32	9.78	19.4	134	298	64.5	46.3	37.3																			
(WY)	1993	1994	1977	1977	1977	1994	1975	1975	1994	1994	1994	1976																			

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1966 - 1995
ANNUAL TOTAL	34957.1	77424	--
ANNUAL MEAN	95.8	212	164
HIGHEST ANNUAL MEAN	--	--	228
LOWEST ANNUAL MEAN	--	--	79.3
HIGHEST DAILY MEAN	750	May 16	1880
LOWEST DAILY MEAN	3.2	Apr 2	3.2
ANNUAL SEVEN-DAY MINIMUM	3.9	Apr 2	3.9
INSTANTANEOUS PEAK FLOW	--	2210	2480a
INSTANTANEOUS PEAK STAGE	--	5.17	5.17
ANNUAL RUNOFF (AC-FT)	69340	153600	119000
10 PERCENT EXCEEDS	296	757	511
50 PERCENT EXCEEDS	41	44	46
90 PERCENT EXCEEDS	14	26	21

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

09218500 BLACKS FORK NEAR MILLBURNE, WY

LOCATION.--Lat 41°01'54", long 110°34'43", in NW¹/₄ NE¹/₄ SW¹/₄ 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 1-5. 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 measurement, in cubic feet per second, made during period when station was not in operation, is given below:

Oct. 13 . . . 62.5

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	26	432	1170	420	279
2	---	---	---	---	---	---	---	26	514	1080	411	275
3	---	---	---	---	---	---	---	26	546	1130	393	275
4	---	---	---	---	---	---	---	26	548	1150	347	275
5	---	---	---	---	---	---	---	26	551	990	309	251
6	---	---	---	---	---	---	---	26	553	937	309	223
7	---	---	---	---	---	---	---	26	556	1040	309	223
8	---	---	---	---	---	---	---	26	554	1180	299	223
9	---	---	---	---	---	---	---	26	555	1170	292	223
10	---	---	---	---	---	---	---	26	555	1190	287	223
11	---	---	---	---	---	---	---	26	557	1200	287	222
12	---	---	---	---	---	---	---	26	562	1200	285	216
13	---	---	---	---	---	---	---	26	568	1270	283	209
14	---	---	---	---	---	---	---	26	659	1230	283	207
15	---	---	---	---	---	---	---	52	793	1060	317	207
16	---	---	---	---	---	---	---	77	891	953	352	207
17	---	---	---	---	---	---	---	117	935	772	349	206
18	---	---	---	---	---	---	---	148	938	679	320	204
19	---	---	---	---	---	---	---	159	946	728	298	204
20	---	---	---	---	---	---	---	166	949	735	305	210
21	---	---	---	---	---	---	---	168	956	712	305	220
22	---	---	---	---	---	---	---	236	972	688	307	220
23	---	---	---	---	---	---	---	291	982	657	309	220
24	---	---	---	---	---	---	---	329	989	646	309	220
25	---	---	---	---	---	---	---	359	993	635	312	220
26	---	---	---	---	---	---	---	361	932	506	309	206
27	---	---	---	---	---	---	---	364	868	388	311	195
28	---	---	---	---	---	---	---	364	865	404	314	207
29	---	---	---	---	---	---	---	363	950	421	298	207
30	---	---	---	---	---	---	---	363	1100	423	279	207
31	---	---	---	---	---	---	---	363	---	426	280	---
TOTAL	---	---	---	---	---	---	---	4644	22769	26770	9788	6684
MEAN	---	---	---	---	---	---	---	150	759	864	316	223
MAX	---	---	---	---	---	---	---	364	1100	1270	420	279
MIN	---	---	---	---	---	---	---	26	432	388	279	195
AC-FT	---	---	---	---	---	---	---	9210	45160	53100	19410	13260

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 1995 WATER YEAR				WATER YEARS 1940 - 1992			
ANNUAL MEAN	--	--	--	--	161a	--	--	--
HIGHEST ANNUAL MEAN	--	--	--	--	281	--	--	1983
LOWEST ANNUAL MEAN	--	--	--	--	82.9	--	--	1977
HIGHEST DAILY MEAN	1270	Jul 13	--	--	2180	Jun 7	--	1957
LOWEST DAILY MEAN	26	May 1-14	--	--	1.0	Sep 15,16	--	1983
ANNUAL SEVEN-DAY MINIMUM	--	--	--	--	5.7	Nov 7	--	1970
INSTANTANEOUS PEAK FLOW	1340	Jul 13	--	--	2530b	Jun 7	--	1957#
INSTANTANEOUS PEAK STAGE	4.66	Jul 13	--	--	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.

GREEN RIVER BASIN

09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°03'15", long 110°23'52", in NE¹/₄ NW¹/₄ NE¹/₄ sec.5, T.12 N., R.115 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 60 ft downstream from bridge, 1.0 mi upstream from Gilbert Creek, 6.1 mi downstream from State Line Reservoir, and 9.0 mi south of Robertson.

DRAINAGE AREA.--53.0 mi².

PERIOD OF RECORD.--July 1939 to 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 Robertson.

REVISED RECORDS.--WSP 979: Drainage area.

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

REMARKS.--Estimated daily discharges: May 1-4, July 7, 8, Aug. 8-16, and Sept. 1-7. Records good 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. Result of discharge measurement, in cubic feet per second, made during the period when the station was not in operation is given below:

Oct. 10 . . . 25.0

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	19	88	433	117	117
2	---	---	---	---	---	---	---	19	88	419	111	117
3	---	---	---	---	---	---	---	19	88	530	102	117
4	---	---	---	---	---	---	---	19	88	438	98	123
5	---	---	---	---	---	---	---	19	100	283	97	123
6	---	---	---	---	---	---	---	20	111	305	95	109
7	---	---	---	---	---	---	---	22	111	396	93	100
8	---	---	---	---	---	---	---	19	113	530	99	104
9	---	---	---	---	---	---	---	19	113	414	110	105
10	---	---	---	---	---	---	---	21	113	477	113	107
11	---	---	---	---	---	---	---	21	111	570	113	107
12	---	---	---	---	---	---	---	21	111	536	113	100
13	---	---	---	---	---	---	---	19	111	675	113	93
14	---	---	---	---	---	---	---	20	113	396	113	93
15	---	---	---	---	---	---	---	26	113	276	110	91
16	---	---	---	---	---	---	---	42	156	233	109	91
17	---	---	---	---	---	---	---	44	220	194	113	93
18	---	---	---	---	---	---	---	52	223	197	111	93
19	---	---	---	---	---	---	---	54	226	252	111	83
20	---	---	---	---	---	---	---	57	226	233	111	73
21	---	---	---	---	---	---	---	57	229	196	109	69
22	---	---	---	---	---	---	---	64	229	176	119	70
23	---	---	---	---	---	---	---	83	233	156	123	70
24	---	---	---	---	---	---	---	88	236	144	121	70
25	---	---	---	---	---	---	---	90	236	140	123	70
26	---	---	---	---	---	---	---	88	206	131	125	70
27	---	---	---	---	---	---	---	88	153	127	125	70
28	---	---	---	---	---	---	---	87	302	123	125	70
29	---	---	---	---	---	---	---	87	634	121	123	69
30	---	---	---	---	---	---	---	85	488	117	121	69
31	---	---	---	---	---	---	---	85	---	119	121	---
TOTAL	---	---	---	---	---	---	---	1454	5569	9337	3487	2736
MEAN	---	---	---	---	---	---	---	46.9	186	301	112	91.2
MAX	---	---	---	---	---	---	---	90	634	675	125	123
MIN	---	---	---	---	---	---	---	19	88	117	93	69
AC-FT	---	---	---	---	---	---	---	2880	11050	18520	6920	5430

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

	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
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 1995 WATER YEAR*	WATER YEARS 1939 - 1971
ANNUAL MEAN	--	47.1
HIGHEST ANNUAL MEAN	--	88.9
LOWEST ANNUAL MEAN	--	25.4
HIGHEST DAILY MEAN	675 Jul 13	1030 Jun 10 1965
LOWEST DAILY MEAN	19 May 1-5,8,9,14	1.0 Dec 17 1962
ANNUAL SEVEN-DAY MINIMUM	--	1.0 Dec 17 1962
INSTANTANEOUS PEAK FLOW	872 Jul 13	1450 Jun 10 1965#
INSTANTANEOUS PEAK STAGE	6.26 Jul 13	6.75 Jun 10 1965#
ANNUAL RUNOFF (AC-FT)	--	34160
10 PERCENT EXCEEDS	304	140
50 PERCENT EXCEEDS	111	13
90 PERCENT EXCEEDS	32	5.6

* During period of operation.

For period of record through 1995.

09223000 HAMS FORK BELOW POLE CREEK, NEAR FRONTIER, WY

LOCATION.--Lat 42°06'38", long 110°42'32", in NE¹/₄ SE¹/₄ NW¹/₄ sec.35, T.25 N., R.117 W., Lincoln County, Hydrologic Unit 14040107, on left bank 2.0 mi downstream from Pole Creek, 4.6 mi upstream from Taylor Creek, and 22 mi northwest of Frontier.

DRAINAGE AREA.--128 mi².

PERIOD OF RECORD.--October 1952 to current year. Prior to October 1970, published as "near Elk Creek ranger station."

GAGE.--Water-stage recorder. Elevation of gage is 7,455 ft above sea level, from topographic map. October 1952 to Sept. 2, 1971, at site 270 ft upstream at present datum, Sept. 3, 1971, to July 30, 1980, at site 150 ft upstream at present datum.

REMARKS.--Estimated daily discharges: Nov. 1 to Apr. 15. Records good except those for estimated daily discharges, which are poor. No diversion upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 22	0800	440	4.46	June 15	1300	772	5.11
June 6	1300	*840	*5.22				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	8.2	11	13	17	19	24	103	351	287	74	22
2	14	8.4	11	12	17	19	27	121	390	267	71	22
3	14	8.6	12	12	18	19	28	108	552	270	69	22
4	16	9.2	13	12	19	18	30	117	591	285	67	22
5	19	9.0	14	13	19	18	34	147	581	259	69	21
6	23	9.4	15	16	19	17	38	154	737	244	65	20
7	22	10	14	16	19	16	44	131	574	236	61	19
8	18	10	13	17	19	16	46	137	540	230	53	18
9	16	9.8	13	17	18	18	40	174	523	224	50	18
10	15	9.8	14	17	18	18	41	212	439	213	50	18
11	15	9.8	14	17	18	18	42	243	379	208	53	21
12	15	10	15	17	18	19	44	239	411	208	47	19
13	14	10	14	16	17	21	48	205	551	212	44	18
14	13	11	13	14	17	23	54	173	682	181	42	17
15	15	11	14	18	17	23	58	168	721	165	40	17
16	17	10	15	19	17	23	59	235	671	153	38	16
17	17	11	16	18	18	22	61	257	567	143	39	16
18	16	12	15	17	19	21	64	310	568	135	38	18
19	15	12	14	19	20	20	67	326	459	131	35	19
20	14	13	13	20	20	18	61	337	414	127	34	19
21	13	12	12	17	20	18	61	360	404	121	33	20
22	12	11	12	16	20	19	61	413	392	120	34	21
23	11	11	13	16	20	21	61	397	368	114	37	21
24	10	11	14	15	20	20	65	330	342	110	43	22
25	10	12	15	14	20	18	71	298	342	103	37	22
26	10	11	17	15	20	16	73	303	350	95	32	21
27	9.9	11	17	17	20	17	79	286	356	89	29	24
28	9.6	10	17	18	20	17	100	279	358	86	28	22
29	9.4	10	17	17	---	17	109	270	334	81	26	21
30	8.7	10	16	17	---	19	105	256	307	76	24	23
31	8.0	---	14	17	---	20	---	292	---	75	22	---
TOTAL	434.6	311.2	437	499	524	588	1695	7381	14254	5248	1384	599
MEAN	14.0	10.4	14.1	16.1	18.7	19.0	56.5	238	475	169	44.6	20.0
MAX	23	13	17	20	20	23	109	413	737	287	74	24
MIN	8.0	8.2	11	12	17	16	24	103	307	75	22	16
AC-FT	862	617	867	990	1040	1170	3360	14640	28270	10410	2750	1190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1995, BY WATER YEAR (WY)

	MEAN	21.9	19.1	15.9	14.5	15.3	20.7	105	419	395	98.4	29.7	21.3
MAX	54.2	34.4	27.8	26.4	29.1	38.2	398	970	1038	296	64.0	51.9	
(WY)	1983	1983	1984	1984	1958	1958	1971	1971	1986	1975	1983	1984	
MIN	11.1	9.37	9.37	6.23	5.61	6.77	19.8	40.5	24.0	9.32	4.55	7.47	
(WY)	1993	1961	1991	1967	1967	1965	1975	1977	1977	1977	1992	1994	

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1953 - 1995
ANNUAL TOTAL	16035.0	33354.8	--
ANNUAL MEAN	43.9	91.4	98.2
HIGHEST ANNUAL MEAN	--	--	214
LOWEST ANNUAL MEAN	--	--	17.7
HIGHEST DAILY MEAN	356	737	2000
LOWEST DAILY MEAN	3.6	8.0	.10
ANNUAL SEVEN-DAY MINIMUM	4.9	8.6	.62
INSTANTANEOUS PEAK FLOW	--	840	2230a
INSTANTANEOUS PEAK STAGE	--	5.22	8.10b
ANNUAL RUNOFF (AC-FT)	31810	66160	71160
10 PERCENT EXCEEDS	152	308	307
50 PERCENT EXCEEDS	14	20	22
90 PERCENT EXCEEDS	7.9	12	12

a Gage height, 6.72 ft.
b Site then in use.

GREEN RIVER BASIN

09224050 HAMS FORK NEAR DIAMONDVILLE, WY

LOCATION.--Lat 41°45'06", long 110°31'57", in NW¹/₄ SE¹/₄ SW¹/₄ sec.36, T.31 N., R.116 W., Lincoln County, Hydrologic Unit 14040107, at bridge on U.S. Highway 30N, 1.9 mi south of Diamondville, and 2.8 mi south of Kemmerer.

PERIOD OF RECORD.--Water years 1974 to September 1989, October 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)
NOV 14...	1600	12	535	8.9	0.5	-7.0	597
MAR 21...	0810	120	417	8.2	1.0	7.5	585
JUN 27...	0820	431	366	8.4	15.0	19.0	601
SEP 08...	0745	20	407	8.1	14.0	8.0	596

DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
NOV 14...	14.8	131	K7	<0.01	0.67	<0.02	0.05
MAR 21...	10.4	96	220	0.02	0.12	0.02	0.07
JUN 27...	7.2	91	30	<0.01	0.06	0.02	0.01
SEP 08...	5.2	65	87	0.01	0.49	<0.02	0.03

K-Results based on colony count outside the acceptable range (non-ideal colony count).

253

LOCATION.--Lat 41°32'46", long 109°41'34", in NE¹/₄ NE¹/₄ NE¹/₄ sec.15, T.18 N., R.109 W., Sweetwater County, Hydrologic Unit 14040107, on right bank 200 ft upstream from bridge on U.S. Highway 30, 4.2 mi upstream from Meadow Springs Wash, and 8.5 mi east of Little America.

DRAINAGE AREA.--3,100 mi², approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 6,127 ft above sea level.

REMARKS.--Estimated daily discharges: Oct. 1-5 and Nov. 15 to Mar.11. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir, capacity, 32,470 acre-ft, since June 1971, Viva Naughton Reservoir, capacity, 42,400 acre-ft, from State Line Reservoir, capacity, 14,000 acre-ft, since April 1980, numerous smaller reservoirs, and diversions for upstream mines and irrigation of about 76,100 acres upstream from station. National Weather Service satellite telemeter at station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	11	6.0	4.0	10	600	115	188	701	1290	212	113
2	.00	14	6.4	3.9	20	400	113	210	757	1390	202	105
3	.00	11	6.8	4.0	60	200	103	262	829	1520	210	105
4	.00	11	7.6	4.5	150	80	96	307	1020	1580	204	105
5	.00	13	8.0	5.0	350	86	95	379	1110	2110	188	102
6	21	15	7.8	6.0	320	92	97	406	1030	1790	181	203
7	54	16	6.8	6.4	290	98	104	410	1200	1270	173	226
8	60	24	5.8	7.0	270	150	115	421	1560	1070	138	136
9	26	25	5.2	7.4	250	250	131	419	1390	1120	109	106
10	14	35	4.8	7.0	150	370	133	411	2090	1320	92	104
11	12	34	4.6	6.4	80	450	140	392	1710	1550	82	98
12	12	33	4.6	6.4	64	539	132	380	1510	1650	78	93
13	12	20	4.7	7.0	66	437	110	392	1520	1800	76	90
14	11	12	4.5	7.2	70	471	99	406	1570	1910	70	84
15	11	13	4.4	7.4	50	426	89	405	1520	1860	65	79
16	11	14	4.6	7.4	54	384	85	382	1470	1380	57	77
17	18	11	5.0	7.4	140	334	93	359	1600	1140	53	75
18	38	10	5.0	7.8	150	331	123	365	1710	1010	52	72
19	40	11	4.8	7.2	150	311	163	362	1790	842	58	73
20	50	9.0	4.6	7.0	160	304	177	340	1780	724	71	81
21	42	8.0	4.5	7.0	150	332	177	339	1720	788	89	96
22	33	7.4	4.6	6.6	160	301	170	315	1570	825	94	97
23	26	7.0	4.6	7.0	180	268	200	347	1390	771	96	96
24	23	6.2	5.0	7.8	300	321	196	548	1290	710	267	95
25	21	6.0	5.0	8.8	370	255	167	748	1240	620	291	95
26	20	6.4	5.6	8.8	350	212	180	685	1240	548	236	97
27	20	6.4	5.6	8.8	450	195	193	674	1170	494	167	103
28	18	6.4	5.6	8.4	520	163	188	656	1090	422	139	108
29	15	6.0	5.6	8.4	---	152	186	670	984	313	120	114
30	13	5.8	5.4	8.8	---	116	196	691	1050	244	107	107
31	8.2	---	5.0	9.0	---	115	---	605	---	224	118	---
TOTAL	629.20	407.6	168.5	215.8	5334	8743	4166	13474	40611	34285	4095	3135
MEAN	20.3	13.6	5.44	6.96	190	282	139	435	1354	1106	132	104
MAX	60	35	8.0	9.0	520	600	200	748	2090	2110	291	226
MIN	.00	5.8	4.4	3.9	10	80	85	188	701	224	52	72
AC=FT	1250	808	334	428	10580	17340	8260	26730	80550	68000	8120	6220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

	1983			1984			1985			1986			1987		
MEAN	95.7	103	76.2	76.8	111	316	503	968	1096	328	111	84.2			
MAX	376	336	230	371	318	765	1310	2918	4573	1349	542	576			
(WY)	1983	1983	1984	1971	1984	1972	1973	1984	1983	1975	1983	1983			
MIN	7.05	13.6	5.44	3.94	26.4	33.9	51.2	21.1	14.0	4.36	.55	.000			
(WY)	1980	1995	1995	1991	1989	1964	1990	1977	1977	1977	1994	1994			

SUMMARY STATISTICS

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1962 - 1995	
ANNUAL TOTAL	21554.34		115264.10		--	
ANNUAL MEAN	59.1		316		324	
HIGHEST ANNUAL MEAN	--		--		888 1983	
LOWEST ANNUAL MEAN	--		--		29.0 1977	
HIGHEST DAILY MEAN	320	Mar 11	2110	Jul 5	9340	Jun 13 1965
LOWEST DAILY MEAN	.00	Aug 14 to Oct 5	.00	Oct 1-5	.00	Many days, several years
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 14	4.5	Dec 30	.00	Sep 20 1962
INSTANTANEOUS PEAK FLOW	--		2260	Jun 10	9980	Jun 13 1965
INSTANTANEOUS PEAK STAGE	--		7.63	Jun 10	10.90	Jun 13 1965
ANNUAL RUNOFF (AC-FT)	42750		228600		234500	
10 PERCENT EXCEEDS	156		1130		939	
50 PERCENT EXCEEDS	40		107		110	
90 PERCENT EXCEEDS	.00		6.0		18	

GREEN RIVER BASIN

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1951 to current year.

WATER TEMPERATURES: March 1951 to September 1963, December 1964 to current year.

INSTRUMENTATION.--Water-quality monitor.

REMARKS.--Published as "near Green River" prior to October 1953 and as "near Marston" October 1953 to September 1964. Partial record of specific conductance and temperature for water years 1979 and 1980 are available at District Office. Water-temperature records represent water temperature at sensor within 0.2°C. No flow Oct 1-5.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 6,010 microsiemens, Oct. 1, 1953; minimum daily, 194 microsiemens, May 17, 1984.

WATER TEMPERATURES: Maximum, 40.0°C, July 31, Aug. 1, 2, 3, 4, 1984; minimum, 0.0°C on many days during winter period most years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum mean daily, 3,600 microsiemens, Nov 3, 4; minimum mean daily, 553 microsiemens, June 17.

WATER TEMPERATURES: Maximum, 26.9°C, Aug. 17; minimum, 0.0°C on many days November through February.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
NOV											
17...	0850	12	2400	0.0	-9.0	780	190	75	310	5	6.0
DEC											
20...	1005	4.6	2830	1.0	0.0	1000	250	94	340	5	8.0
JAN											
30...	1540	8.7	1630	0.0	2.0	630	170	50	160	3	3.9
MAR											
21...	1125	302	906	5.0	15.0	260	64	25	80	2	5.2
APR											
20...	0850	178	1040	4.0	1.0	350	85	33	86	2	4.3
MAY											
17...	1635	398	740	14.0	14.0	280	70	25	55	1	3.6
JUN											
28...	1000	1120	680	18.5	12.0	260	70	20	43	1	4.3
JUL											
19...	1245	829	674	19.5	24.0	240	65	19	46	1	2.2
AUG											
16...	1535	57	1720	22.0	28.0	560	140	51	170	3	3.6
SEP											
06...	1330	245	1280	20.0	27.0	430	110	38	110	2	3.2

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
NOV										
17...	252	960	130	0.8	9.8	1830	2.49	59.4	410	<10
DEC										
20...	408	1100	150	0.8	12	2200	2.99	27.3	470	10
JAN										
30...	303	600	62	0.7	10	1240	1.68	29.1	250	<3
MAR										
21...	160	220	54	0.3	6.8	551	0.75	450	180	<3
APR										
20...	208	260	64	0.3	2.3	660	0.90	317	140	4
MAY										
17...	195	150	35	0.3	4.9	461	0.63	495	140	<3
JUN										
28...	184	150	15	0.3	11	424	0.61	1350	--	7
JUL										
19...	156	170	15	0.3	9.8	421	0.57	844	<10	21
AUG										
16...	202	650	52	0.7	9.2	1200	1.63	61.5	340	<3
SEP										
06...	175	470	27	0.6	7.9	872	1.19	577	190	8

GREEN RIVER BASIN

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09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	2080	3560	2060	1740	---	1320	945	885	711	1120	1300
2	---	2160	3590	2140	---	---	1400	894	733	671	1220	1190
3	---	2190	3600	2260	---	---	1480	859	732	686	1160	1150
4	---	2370	3600	2410	---	---	1540	894	723	675	1090	1150
5	---	2400	3590	2460	---	---	1530	936	689	697	1080	1140
6	2400	2350	3560	2360	---	---	1530	752	671	601	1060	1240
7	1610	2540	3520	2450	850	---	1440	710	632	591	1080	1250
8	1640	2660	3470	2480	927	---	1330	676	556	667	1090	1730
9	1750	2570	---	2610	987	---	1210	637	606	707	1130	1750
10	1780	2550	---	2680	982	---	1160	615	729	623	1240	1700
11	1780	2510	---	2470	1060	---	1150	562	729	594	1400	1620
12	1780	2360	---	2340	1060	---	1120	593	762	668	1400	1730
13	1770	2200	---	2390	1130	---	1160	652	687	645	1470	1710
14	1780	2080	---	3030	1200	---	1190	727	740	635	1600	1690
15	1800	2150	---	3130	1190	---	1300	677	664	590	1670	1690
16	1780	2280	---	2610	1180	---	1320	694	601	573	1710	1630
17	1800	2390	---	2100	1180	938	1290	724	597	638	1680	1570
18	1760	2440	---	2110	1330	896	1280	734	553	661	1600	1730
19	1720	2450	---	2060	1420	873	1110	704	563	679	1680	1530
20	1660	2520	2820	1960	1380	855	1060	642	571	757	1860	1540
21	1650	2580	2810	1900	1380	889	1090	651	569	836	1870	1400
22	1680	2690	2780	1850	1400	875	1030	677	560	867	1400	1390
23	1670	2880	2650	1770	1410	884	1040	678	573	858	1260	1400
24	1660	3060	2560	1700	1130	842	1000	606	582	870	1170	1440
25	1620	3110	2400	1690	791	869	950	799	578	896	757	1440
26	1500	3180	2280	1820	828	942	950	859	594	912	1100	1480
27	1660	3170	2230	1900	979	1020	955	871	606	921	1170	1450
28	1840	3290	2210	1940	1050	1100	968	851	636	933	1250	1370
29	1960	3390	2200	2130	---	1160	949	885	668	953	1300	1300
30	2060	3460	2120	1850	---	1220	917	898	719	980	1350	1320
31	2110	---	2060	1750	---	1240	---	926	---	1040	1370	---
MEAN	---	2600	---	2210	---	---	1190	753	650	746	1330	1470
MAX	---	3460	---	3130	---	---	1540	945	885	1040	1870	1750
MIN	---	2080	---	1690	---	---	917	562	553	573	757	1140

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	3.7	2.1	.0	.0	.0	.0	---	---	---	---
2	---	---	3.4	1.3	.0	.0	.0	.0	---	---	---	---
3	---	---	2.9	1.0	.0	.0	.0	.0	---	---	---	---
4	---	---	2.3	1.1	.0	.0	.0	.0	---	---	---	---
5	---	---	1.8	.9	.0	.0	.0	.0	---	---	---	---
6	4.3	2.6	3.7	1.0	.0	.0	.0	.0	---	---	---	---
7	6.2	3.3	4.3	2.1	.0	.0	.0	.0	.1	.0	---	---
8	6.3	3.4	3.9	2.5	.0	.0	.0	.0	.0	.0	---	---
9	6.0	5.1	3.6	.9	.0	.0	.0	.0	.1	.0	---	---
10	6.0	5.1	3.6	.9	.0	.0	.0	.0	.0	.0	---	---
11	6.6	5.7	3.9	1.5	.0	.0	.0	.0	.0	.0	---	---
12	6.8	6.1	3.3	1.9	.0	.0	.0	.3	.0	.0	---	---
13	7.2	6.3	1.9	.6	.0	.0	.3	.3	.0	.0	---	---
14	7.2	6.1	1.5	.6	.0	.0	.3	.3	.0	.0	---	---
15	6.8	5.6	1.0	.5	.0	.0	.3	.2	.0	.0	---	---
16	6.5	5.5	.5	.0	.0	.0	.2	.2	.0	.0	---	---
17	6.0	3.6	.1	.0	.0	.0	.2	.2	.0	.0	6.9	---
18	5.2	3.4	.0	.0	.0	.0	.2	.1	.0	.0	6.5	3.8
19	6.2	3.2	.0	.0	.0	.0	.1	.1	.0	.0	6.3	4.1
20	6.0	3.4	.0	.0	.0	.0	.2	.1	.0	.0	6.0	2.4
21	5.2	3.4	.1	.0	.0	.0	.2	.2	.0	.0	6.6	4.1
22	5.2	3.2	.1	.0	.0	.0	.2	.2	.0	.0	6.6	3.8
23	4.8	2.6	.1	.0	.0	.0	.3	.2	.0	.0	6.9	3.0
24	5.0	3.0	.1	.0	.0	.0	.3	.3	.1	.0	5.3	2.2
25	9.4	2.8	.2	.0	.0	.0	.3	.3	.1	.0	3.6	.2
26	7.6	2.2	.0	.0	.0	.0	.4	.3	.1	.0	3.4	.2
27	8.0	4.9	.0	.0	.0	.0	.4	.4	.0	.0	4.0	.2
28	7.1	3.6	.0	.0	.0	.0	.4	.4	.0	---	3.4	.2
29	5.6	2.8	.0	.0	.0	.0	.5	.4	---	---	2.6	.5
30	4.0	2.2	.0	.0	.0	.0	.5	.4	---	---	5.9	.3
31	3.5	2.4	---	---	.0	.0	.4	.3	---	---	8.5	2.0
MONTH	---	---	4.3	.0	.0	.0	.5	.0	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.1	2.9	11.7	6.3	16.4	12.3	17.7	14.8	22.7	16.9	23.0	17.1
2	10.5	4.9	10.2	7.9	16.6	14.1	17.6	14.9	21.9	17.0	24.8	18.5
3	11.5	4.2	7.9	6.2	16.4	14.0	16.4	14.5	22.2	18.2	25.3	18.5
4	12.4	5.4	11.4	6.0	15.5	14.0	15.6	13.4	23.3	18.4	22.8	18.2
5	11.7	6.2	10.6	8.3	17.1	13.4	16.9	13.6	22.8	17.0	23.3	16.3
6	11.4	6.3	10.0	7.9	16.1	12.4	17.8	14.7	22.4	17.4	21.1	15.7
7	11.3	6.0	8.6	6.2	14.2	11.3	20.4	15.7	22.8	17.5	19.7	14.8
8	9.0	4.3	12.0	7.1	12.4	10.5	20.7	17.6	21.9	17.5	21.4	15.1
9	8.1	2.3	13.4	8.2	12.2	9.6	20.8	17.9	22.8	14.4	21.0	14.0
10	7.7	2.3	12.3	10.2	12.5	11.2	19.7	17.9	21.3	17.8	20.5	14.2
11	9.1	3.0	11.8	9.2	15.6	10.7	19.1	17.1	23.0	17.5	19.5	13.2
12	11.4	4.2	10.8	6.2	17.6	12.9	17.8	16.2	23.2	17.7	20.0	12.0
13	13.1	7.3	10.6	5.1	20.1	16.2	18.6	15.9	22.8	16.6	21.1	12.3
14	10.5	6.4	12.5	6.9	19.7	17.3	19.2	16.1	21.6	14.7	21.1	14.3
15	8.8	4.4	15.2	9.9	18.7	16.0	20.2	17.1	22.9	14.8	20.7	13.3
16	10.5	4.1	14.1	11.0	17.7	15.0	21.3	17.1	24.0	16.0	21.6	13.3
17	9.3	3.2	14.1	10.5	15.6	11.0	21.8	18.2	26.9	16.5	18.4	13.7
18	11.1	4.4	14.5	10.2	14.4	11.0	21.2	18.8	25.3	17.7	16.4	13.5
19	9.3	6.0	14.5	10.5	16.0	12.2	20.4	18.1	25.4	15.9	18.3	11.6
20	9.3	4.1	15.8	11.2	17.7	14.0	20.4	17.6	25.6	17.5	16.0	10.6
21	10.7	5.4	16.0	12.2	17.8	15.0	19.8	17.3	25.4	18.7	13.7	7.2
22	9.8	5.4	15.0	11.8	17.3	14.0	19.4	16.7	25.4	19.2	13.0	6.3
23	9.6	6.3	11.8	7.2	17.7	14.2	20.0	16.1	24.8	19.2	12.9	7.4
24	10.3	6.2	8.4	7.0	18.6	14.0	20.4	16.9	24.9	18.0	13.8	5.7
25	10.4	6.9	8.9	6.8	20.2	15.3	20.9	16.9	24.5	20.7	14.1	6.7
26	11.1	5.1	10.3	8.0	21.3	16.0	20.4	17.3	25.2	19.5	15.1	8.8
27	12.2	7.3	10.7	9.3	20.9	18.0	20.6	16.2	24.2	19.3	16.2	10.0
28	12.7	9.4	11.6	9.3	18.9	16.3	22.4	16.2	24.0	19.1	13.9	9.8
29	12.1	8.3	12.5	9.3	17.7	14.9	22.8	19.2	23.8	18.9	12.1	8.9
30	12.5	8.5	15.0	11.6	17.6	14.0	22.6	18.3	22.9	16.2	13.2	7.8
31	---	---	15.1	12.5	---	---	22.1	16.1	23.1	15.2	---	---
MONTH	13.1	2.3	16.0	5.1	21.3	9.6	22.8	13.4	26.9	14.4	25.3	5.7

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UT

LOCATION.--Lat 40°54'23", long 109°25'15", in NW¹/₄NE¹/₄ 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, 3,525,000 acre-ft Aug. 26-28, elevation, 6,034.54 ft; minimum observed, 2,814,000 acre-ft Feb. 2-5, elevation, 6,015.29 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	6,035	3,543,000

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2886	2867	2859	2834	2815	2833	2897	2933	2912	3183	3482	3523
2	2886	2867	2858	2834	2814	2835	2899	2932	2916	3192	3487	3522
3	2887	2868	2858	2833	2814	2836	2901	2932	2920	3202	3492	3521
4	2888	2868	2857	2832	2814	2837	2902	2933	2924	3211	3495	3520
5	2887	2868	2856	2832	2814	2838	2904	2934	2930	3222	3499	3519
6	2886	2868	2856	2831	2815	2840	2905	2934	2937	3234	3503	3518
7	2886	2868	2855	2830	2816	2841	2906	2937	2944	3246	3507	3517
8	2884	2868	2854	2829	2816	2843	2907	2936	2951	3258	3510	3517
9	2883	2868	2853	2829	2816	2845	2909	2938	2957	3271	3512	3516
10	2882	2868	2852	2828	2816	2848	2911	2940	2962	3283	3514	3515
11	2881	2868	2851	2827	2816	2850	2912	2940	2969	3295	3515	3513
12	2880	2868	2850	2826	2816	2852	2914	2942	2975	3308	3516	3512
13	2880	2868	2850	2826	2817	2853	2916	2943	2982	3319	3516	3511
14	2879	2868	2849	2825	2817	2854	2918	2944	2990	3333	3517	3510
15	2878	2868	2848	2825	2817	2856	2919	2945	3002	3346	3517	3509
16	2877	2868	2847	2824	2817	2860	2921	2944	3013	3359	3518	3508
17	2876	2868	2846	2824	2817	2864	2922	2943	3032	3370	3519	3507
18	2875	2867	2846	2824	2818	2866	2923	2944	3044	3380	3519	3505
19	2874	2867	2845	2823	2818	2868	2924	2942	3057	3392	3520	3503
20	2873	2867	2844	2822	2819	2870	2925	2939	3071	3400	3520	3502
21	2872	2866	2843	2822	2820	2873	2926	2937	3083	3408	3521	3500
22	2871	2866	2842	2821	2820	2876	2927	2932	3098	3415	3522	3499
23	2870	2866	2842	2820	2822	2879	2927	2927	3110	3424	3523	3498
24	2869	2865	2841	2820	2823	2882	2927	2925	3119	3431	3524	3496
25	2868	2865	2840	2819	2824	2884	2928	2921	3128	3438	3524	3495
26	2867	2864	2839	2818	2825	2887	2929	2921	3138	3445	3525	3493
27	2867	2863	2838	2818	2828	2891	2930	2918	3146	3450	3525	3492
28	2867	2862	2837	2817	2831	2892	2932	2916	3158	3456	3525	3490
29	2867	2860	2837	2816	---	2894	2932	2917	3165	3462	3524	3489
30	2866	2860	2836	2816	---	2895	2933	2915	3174	3469	3524	3488
31	2866	---	2835	2815	---	2896	---	2911	---	3475	3523	---
MAX	2890	2870	2860	2830	2830	2900	2930	2940	3170	3470	3520	3520
MIN	2870	2860	2830	2810	2810	2830	2900	2910	2910	3180	3480	3490
(#)	6016.82	6016.64	6015.92	6015.33	6015.80	6017.68	6018.75	6018.11	6025.46	6033.28	6034.51	6033.61
(*)	-21	-6	-25	-20	+16	+65	+37	-22	+263	+301	+48	-35

CAL YR 1994 (*) -482
CAL YR 1995 (*) +601

(#) Elevation, in feet, at end of month.

(*) Change in contents, in thousands of acre-feet.

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 the Utah district office. Daily records provided by Bureau of Reclamation. Water-quality monitor located in separate 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, 523 microsiemens Oct. 25, 1994.

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, 814 microsiemens Mar. 12, 13; minimum recorded, 523 microsiemens Oct. 25.

WATER TEMPERATURES: Maximum recorded, 17.0°C Sept. 21; minimum observed, 3.5°C Mar. 2.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

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)
OCT										
18...	1330	1410	730	8.3	9.0	10.0	8.2	621	250	60
NOV										
29...	1055	1170	750	8.3	-4.0	7.0	9.2	630	250	61
MAR										
02...	1110	847	750	8.5	4.0	4.0	10.1	617	250	61
APR										
05...	1120	872	740	8.3	14.0	5.5	10.0	618	250	62
MAY										
16...	0950	1920	750	8.3	13.0	7.0	9.7	618	230	56
JUL										
13...	0955	3160	630	8.3	21.5	12.5	8.2	622	200	49
AUG										
29...	0945	1380	680	8.3	15.0	12.0	9.0	624	230	57

DATE	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)	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)
OCT										
18...	24	59	34	2	2.4	200	19	0.30	2.9	470
NOV										
29...	24	60	34	2	2.4	200	18	0.30	3.1	490
MAR										
02...	24	59	34	2	2.5	210	18	0.30	3.4	512
APR										
05...	24	59	33	2	2.5	200	18	0.30	3.6	472
MAY										
16...	22	55	34	2	2.3	200	19	0.30	2.9	476
JUL										
13...	19	47	33	1	2.2	160	15	0.20	2.6	396
AUG										
29...	22	56	34	2	2.4	180	16	0.30	2.7	446

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, SUM OF CONSTITUENTS, 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, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	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)
OCT 18...	462	0.64	1790	0.024	0.024	0.024	0.20	0.20	0.22
NOV 29...	463	0.67	1550	0.020	0.020	0.020	--	<0.20	--
MAR 02...	473	0.70	1170	0.046	0.046	0.046	--	<0.20	--
APR 05...	462	0.64	1110	0.038	0.038	0.038	0.20	0.20	0.24
MAY 16...	450	0.65	2470	0.032	0.032	0.032	0.30	0.30	0.33
JUL 13...	372	0.54	3380	0.007	0.007	0.007	0.20	0.20	0.21
AUG 29...	422	0.61	1660	0.025	0.025	0.025	0.20	0.20	0.23

DATE	TIME	SELE- NIUM, DIS- SOLVED (UG/L AS SE)
OCT 18...	1330	<1
MAR 02...	1110	<1
APR 05...	1120	1
MAY 16...	0950	<1
JUL 13...	0955	<1

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	768	738	753	699	662	682	757	733	746	766	747	757
2	778	736	752	709	688	700	753	726	741	767	749	756
3	790	743	769	719	669	700	747	729	740	778	755	766
4	775	742	757	708	660	671	751	735	743	779	751	769
5	759	741	751	717	659	693	753	730	743	777	756	768
6	760	747	753	717	697	710	761	738	746	782	749	763
7	764	742	752	737	708	724	768	736	753	786	748	766
8	767	737	752	746	723	736	749	724	737	785	750	774
9	764	728	750	764	699	735	744	722	734	785	767	776
10	777	742	760	759	738	749	746	725	736	791	775	783
11	783	742	761	758	742	753	752	729	741	793	753	781
12	777	744	760	752	672	687	765	726	744	788	753	770
13	777	742	759	691	640	668	772	742	757	797	768	781
14	766	745	757	663	634	645	754	736	745	804	774	784
15	766	750	756	713	646	676	754	729	741	803	788	796
16	763	741	752	743	678	704	770	733	746	801	784	791
17	760	739	749	725	672	693	769	738	751	789	765	781
18	748	631	718	725	666	691	773	738	752	788	764	777
19	720	631	694	693	672	682	769	745	755	786	764	775
20	733	683	708	729	669	702	772	746	759	782	768	775
21	718	683	703	732	668	696	768	747	757	779	762	771
22	724	684	703	686	666	675	769	749	757	778	765	773
23	723	696	710	725	668	691	778	749	763	783	765	776
24	737	541	716	760	679	721	777	755	763	---	---	---
25	760	523	653	772	724	750	778	756	770	---	---	---
26	716	550	645	772	728	747	785	756	768	---	---	---
27	605	565	589	745	724	734	782	750	768	---	---	---
28	618	568	597	739	724	731	797	763	776	---	---	---
29	636	592	620	754	723	733	797	771	787	---	---	---
30	662	598	634	751	716	738	789	757	772	---	---	---
31	741	605	659	---	---	---	770	752	759	---	---	---
MONTH	790	523	716	772	634	707	797	722	753	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	768	721	747	775	745	760
2	---	---	---	---	---	---	759	740	751	771	740	756
3	---	---	---	805	754	785	762	727	744	767	734	752
4	---	---	---	809	752	794	757	728	743	767	734	750
5	---	---	---	803	749	776	772	735	754	776	741	758
6	---	---	---	804	744	774	778	732	760	763	730	748
7	---	---	---	793	743	767	775	729	754	756	729	741
8	---	---	---	800	743	776	762	738	750	761	719	736
9	---	---	---	804	782	793	755	707	734	761	705	738
10	---	---	---	806	775	790	756	730	745	773	742	756
11	---	---	---	807	786	796	753	714	736	774	722	745
12	---	---	---	814	789	801	769	695	740	758	712	738
13	---	---	---	814	761	796	755	710	740	758	721	737
14	---	---	---	812	788	800	759	731	744	774	745	758
15	---	---	---	808	785	800	751	725	740	754	718	739
16	---	---	---	808	783	795	755	728	742	759	719	735
17	---	---	---	802	768	790	759	736	746	753	714	733
18	---	---	---	800	775	790	758	713	740	741	723	732
19	---	---	---	796	775	784	752	731	740	---	---	---
20	---	---	---	792	731	772	744	722	733	---	---	---
21	---	---	---	797	771	782	748	722	733	---	---	---
22	---	---	---	798	771	786	751	716	736	---	---	---
23	---	---	---	795	772	786	747	723	736	---	---	---
24	---	---	---	793	720	779	751	725	739	---	---	---
25	---	---	---	791	711	758	750	724	740	---	---	---
26	---	---	---	786	716	764	756	733	744	---	---	---
27	---	---	---	778	711	754	756	737	746	---	---	---
28	---	---	---	780	708	738	755	731	744	---	---	---
29	---	---	---	772	712	739	765	742	754	---	---	---
30	---	---	---	767	710	749	770	736	751	---	---	---
31	---	---	---	770	718	752	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	778	695	744	---	---	---

GREEN RIVER BASIN

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	652	632	641	662	641	648	664	659	661
2	---	---	---	646	635	640	655	642	649	666	661	663
3	---	---	---	641	621	626	653	645	650	668	661	664
4	---	---	---	632	619	623	658	633	641	674	665	670
5	---	---	---	628	619	622	661	633	638	673	668	671
6	---	---	---	628	619	624	651	635	644	676	669	672
7	---	---	---	627	615	620	652	646	649	676	671	674
8	---	---	---	625	616	622	650	646	648	677	673	675
9	719	642	675	630	604	620	656	647	651	685	672	677
10	658	643	648	635	626	630	650	636	645	680	675	678
11	645	636	640	644	631	635	645	635	638	685	678	681
12	656	638	647	644	618	634	646	639	644	685	679	683
13	647	628	639	634	616	625	650	643	647	688	681	685
14	640	616	630	632	626	629	654	645	650	687	680	684
15	646	601	626	637	631	635	654	643	648	691	683	687
16	792	630	680	639	635	637	649	637	642	695	689	692
17	674	627	650	641	635	638	653	647	650	696	692	694
18	765	646	672	641	636	639	650	641	646	699	695	696
19	678	629	653	641	637	639	655	645	649	700	694	697
20	647	626	634	647	639	643	654	646	651	701	692	698
21	642	618	632	653	645	650	649	641	643	698	690	695
22	646	624	639	659	653	656	655	649	652	695	688	692
23	649	634	643	662	657	660	656	651	654	697	687	692
24	652	645	649	662	657	659	656	650	654	700	691	697
25	650	645	647	660	658	659	656	654	655	710	691	698
26	650	641	646	659	655	657	658	653	655	702	694	699
27	647	640	643	658	653	656	660	654	657	704	697	700
28	643	632	637	660	655	657	659	655	658	707	700	703
29	638	623	630	657	644	648	659	651	656	705	697	702
30	648	626	641	651	644	647	663	651	657	702	692	697
31	---	---	---	651	640	644	663	660	662	---	---	---
MONTH	---	---	---	662	604	639	663	633	649	710	659	686

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.9	---	---	---	---	---	---	---	8.8	11.6	13.3	13.1
2	13.4	---	---	---	---	e3.5	---	---	9.1	11.8	12.7	12.7
3	---	---	---	---	---	---	---	---	9.7	12.8	11.9	12.7
4	---	---	---	---	---	---	---	---	9.1	13.2	13.5	12.4
5	13.6	---	---	---	---	---	e5.5	---	9.0	12.7	13.5	12.4
6	14.4	---	---	---	---	---	---	---	9.2	12.2	12.2	12.8
7	13.4	---	---	---	---	---	---	---	---	12.5	11.6	12.9
8	---	---	---	---	---	---	---	---	9.4	12.6	12.0	12.6
9	---	---	---	---	---	---	---	---	---	12.8	12.1	13.0
10	---	---	---	---	---	---	---	---	---	12.2	12.6	13.0
11	12.7	---	---	---	---	---	---	---	9.5	12.6	14.0	12.7
12	---	---	---	---	---	---	---	---	9.2	12.9	13.1	12.6
13	12.0	---	---	---	---	---	---	---	9.5	13.1	12.9	12.2
14	11.9	---	---	---	---	---	---	---	10.3	12.6	12.6	13.0
15	13.7	---	---	---	---	---	---	---	9.9	12.6	12.3	12.6
16	---	---	---	---	---	---	---	e7.0	8.9	12.6	13.5	11.9
17	---	---	---	---	---	---	---	8.0	9.4	12.8	12.5	12.0
18	e11.0	---	---	---	---	---	---	---	9.4	12.9	13.8	11.9
19	---	---	---	---	---	---	---	---	10.1	13.1	13.1	12.1
20	---	---	---	---	---	---	---	---	10.8	13.1	12.1	12.6
21	---	---	---	---	---	---	---	---	11.0	13.0	13.8	17.0
22	---	---	---	---	---	---	---	7.8	11.1	13.3	12.6	12.4
23	---	---	---	---	---	---	---	---	11.2	13.3	12.5	15.1
24	---	---	---	e3.7	---	---	---	---	11.2	13.3	12.6	13.8
25	---	---	---	---	---	---	---	7.9	11.4	13.2	12.5	14.7
26	---	---	---	---	---	---	---	---	11.4	13.3	12.4	12.6
27	---	---	---	---	---	---	---	---	11.7	13.2	12.4	12.6
28	---	---	---	---	---	---	---	---	12.0	12.8	12.5	12.1
29	---	e7.0	---	---	---	---	---	---	11.6	13.7	13.4	12.7
30	---	---	---	---	---	---	---	8.6	11.2	13.7	13.8	12.8
31	---	---	---	---	---	---	---	9.2	---	13.6	13.0	---
MEAN	---	---	---	---	---	---	---	---	---	12.9	12.8	12.9
MAX	---	---	---	---	---	---	---	---	---	13.7	14.0	17.0
MIN	---	---	---	---	---	---	---	---	---	11.6	11.6	11.9

e Estimated, from field observations.

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO

LOCATION.--Lat 40°59'58", long 107°08'34", in SW¹/₄ NW¹/₄ sec.15, T.12 N., R.87 W., Routt County, Hydrologic Unit 14050003, on left bank just downstream from highway bridge at Focus Ranch, 0.2 mi downstream from Spring Creek, and 12 mi east of Slater.

DRAINAGE AREA.--285 mi².

PERIOD OF RECORD.--October 1942 to September 1947, October 1950 to current year.

REVISED RECORDS.--WSP 1733: 1960.

GAGE.--Water-stage recorder. Datum of gage is 6,831.00 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 1 to Mar. 31 and June 21 to July 18. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 2,000 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	23	24	25	32	40	86	187	1880	390	157	35
2	23	23	24	25	32	40	99	328	1940	400	100	34
3	28	23	24	26	31	41	102	365	2050	400	93	37
4	28	23	24	26	30	41	112	290	2230	400	93	36
5	26	23	24	27	31	40	128	339	2800	410	91	34
6	31	24	24	27	31	44	156	348	2760	400	84	34
7	33	24	24	27	31	41	188	328	2340	400	80	34
8	26	24	24	27	30	40	212	361	2230	390	77	49
9	24	24	24	28	31	41	179	381	2510	380	72	56
10	24	23	25	29	28	41	144	450	1780	390	68	44
11	23	23	25	29	28	45	130	569	1610	380	74	43
12	23	24	25	28	31	46	124	812	1850	380	80	41
13	21	24	25	27	33	46	154	641	2190	380	78	37
14	20	23	25	27	32	46	193	677	2350	390	49	34
15	20	23	25	27	30	46	155	960	1670	400	44	32
16	21	24	25	27	35	47	145	1190	1520	395	42	30
17	21	24	25	26	35	47	176	1140	1270	400	41	29
18	22	24	25	27	36	46	156	1090	911	393	38	30
19	27	24	25	28	36	48	146	1270	756	436	36	67
20	26	23	25	28	38	48	140	1400	521	435	36	53
21	26	23	26	26	38	48	131	1450	500	381	38	47
22	26	23	26	27	41	50	130	1650	450	361	39	41
23	25	22	27	29	43	50	125	1690	425	321	38	40
24	24	23	28	29	44	50	123	1400	410	274	39	40
25	23	23	28	29	43	55	125	1350	400	248	56	39
26	23	24	28	29	42	45	122	1270	390	230	47	39
27	25	24	27	29	41	50	119	1340	380	209	42	39
28	23	24	26	29	40	55	141	1260	370	194	40	38
29	24	24	26	29	---	60	138	1310	380	182	41	69
30	25	24	26	29	---	70	209	1480	380	172	39	90
31	22	---	25	31	---	80	---	1740	---	169	37	---
TOTAL	752	704	784	857	973	1487	4288	29066	41253	10690	1889	1271
MEAN	24.3	23.5	25.3	27.6	34.7	48.0	143	938	1375	345	60.9	42.4
MAX	33	24	28	31	44	80	212	1740	2800	436	157	90
MIN	19	22	24	25	28	40	86	187	370	169	36	29
AC-FT	1490	1400	1560	1700	1930	2950	8510	57650	81830	21200	3750	2520
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEAR (WY)												
MEAN	37.6	35.2	31.5	31.2	32.2	49.1	259	1069	945	162	38.6	28.3
MAX	91.8	77.8	59.4	74.5	59.5	139	842	2122	2231	519	97.3	79.9
(WY)	1962	1962	1983	1983	1962	1989	1974	1984	1983	1983	1945	1984
MIN	17.6	18.4	14.8	16.3	20.4	23.8	77.6	405	178	33.4	17.0	11.0
(WY)	1953	1959	1977	1945	1945	1977	1973	1977	1987	1977	1954	1944
SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1944 - 1995												
ANNUAL TOTAL	48179			94014			--			--		
ANNUAL MEAN	132			258			227			1984		
HIGHEST ANNUAL MEAN	--			--			423			1977		
LOWEST ANNUAL MEAN	--			--			86.6			1984		
HIGHEST DAILY MEAN	1190			May 12			2800			Jun 5		
LOWEST DAILY MEAN	13			Aug 27			19			Oct 1		
ANNUAL SEVEN-DAY MINIMUM	14			Sep 21			21			Oct 12		
INSTANTANEOUS PEAK FLOW	--			3670			Jun 5			4780		
INSTANTANEOUS PEAK STAGE	--			7.86			Jun 5			8.78a		
ANNUAL RUNOFF (AC-FT)	95560			186500			164500			May 23 1984		
10 PERCENT EXCEEDS	502			778			815			May 23 1994		
50 PERCENT EXCEEDS	29			41			40					
90 PERCENT EXCEEDS	16			24			20					

a Maximum gage height, 8.95 ft, Apr 25, 1974.

09253455 HAGGARTY CREEK ABOVE BELVIDERE DITCH, NEAR ENCAMPMENT, WY

LOCATION.--Lat 41°09'02", long 107°07'06", in SE¹/₄ SE¹/₄ SE¹/₄ sec.25, T.14 N., R.87 W., Carbon County, Hydrologic Unit 14050003, Medicine Bow National Forest, 0.5 mi upstream from State Highway 70, 1.6 mi upstream from mouth, and 17 mi west of Encampment, WY.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)
JUN 29...	0855	179	26	6.6	3.0	11.0	640	10.8	96	8	2.3	0.52
SEP 01...	1315	4.0	40	7.2	10.0	27.0	568	7.6	91	14	4.2	0.90

DATE	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)
JUN 29...	0.7	0.1	0.4	9.3	1.4	0.2	<0.1	5.8	23	17	0.03
SEP 01...	1.1	0.1	0.4	17	2.2	0.1	<0.1	8.1	29	27	0.04

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC, DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JUN 29...	11.1	40	<1	8	<0.5	<10	<1.0	<1	<3	49	30
SEP 01...	0.31	<10	<1	13	<0.5	<10	<1.0	<1	<3	19	26

DATE	LEAD, DIS-SOLVED (UG/L AS Pb) (01049)	LITHIUM, DIS-SOLVED (UG/L AS Li) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS Mn) (01056)	MERCURY, DIS-SOLVED (UG/L AS Hg) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS Mo) (01060)	NICKEL, DIS-SOLVED (UG/L AS Ni) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS Se) (01145)	SILVER, DIS-SOLVED (UG/L AS Ag) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS Sr) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS Zn) (01090)
JUN 29...	<1	9	2	<0.1	<10	<10	<1	6.0	11	<6	<3
SEP 01...	<1	<4	7	<0.1	<10	<10	<1	1.0	18	<6	<3

09253465 WEST FORK BATTLE CREEK AT BATTLE CREEK CAMPGROUND, NEAR SAVERY, WY

LOCATION.--Lat 41°05'37", long 107°09'31", in SW¹/₄ NE¹/₄ SE¹/₄ sec.15, T.13 N., R.87 W., Carbon County, Hydrologic Unit 14050003, Medicine Bow National Forest, at Battle Creek Campground, 1.1 mi upstream from mouth, and 15 mi east of Savery.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
JUN 29...	1030	186	31	7.0	5.0	15.0	588	9.5	97	11	3.2	0.67
SEP 01...	1430	2.6	120	7.8	17.0	22.5	591	7.8	105	48	15	2.5
DATE		SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, LAB SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)
JUN 29...		0.9	0.1	0.3	12	1.9	0.3	<0.1	6.0	26	21	0.03
SEP 01...		4.1	0.3	0.6	41	17	1.9	0.3	9.9	81	76	0.11
DATE		SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
JUN 29...		13.1	50	<1	10	<0.5	<10	<1.0	<1	<3	32	37
SEP 01...		0.57	10	<1	28	<0.5	<10	<1.0	<1	<3	8	11
DATE		LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
JUN 29...		<1	9	<1	<0.1	<10	<10	<1	3.0	17	<6	<3
SEP 01...		<1	<4	3	0.1	<10	<10	<2	<1.0	97	<6	<3

LOCATION.--Lat 40°58'57", long 107°22'56", in SW1/4 NE1/4 sec.21, T.12 N., R.89 W., Moffat County, Hydrologic Unit 14050003, on right bank 15 ft downstream from highway bridge, 1.0 mi upstream from mouth, and 1.5 mi south of Slater.

PERIOD OF RECORD.--May to October, December 1910, March to October 1911, and April to May 1912 (published as Slater Creek), July 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Elevation of gage is 6,600 ft above sea level, from river-profile map. May 28, 1910, to May 25, 1912, nonrecording gage at site 1.5 mi upstream at different datum. July 9, 1931, to May 6, 1932, nonrecording gage at site 0.2 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Oct. 1 to May 3, and June 13-15. Records good except those for estimated daily discharges, which are poor. Diversions for irrigation of about 500 acres upstream from station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	18	16	15	14	23	26	140	811	235	24	6.9
2	8.9	17	16	14	15	20	31	137	801	236	20	7.1
3	10	17	16	14	16	27	33	200	788	272	18	7.8
4	11	16	16	14	17	26	42	240	771	308	18	7.0
5	12	17	16	14	17	27	59	217	1020	236	16	6.6
6	13	20	17	13	17	26	73	243	1090	219	14	6.2
7	15	19	17	14	18	22	89	206	900	223	14	6.4
8	13	19	15	14	17	28	96	199	728	214	13	11
9	12	18	14	15	18	27	81	215	657	193	11	15
10	12	16	16	15	18	28	71	257	486	193	11	15
11	12	17	17	15	16	23	58	328	518	188	14	15
12	13	17	16	16	17	31	65	470	713	173	17	14
13	13	18	16	16	17	20	70	452	775	161	16	13
14	14	15	17	16	18	21	97	368	835	191	12	11
15	15	11	17	16	16	27	81	438	890	142	13	9.9
16	16	19	16	16	17	27	80	657	956	116	10	9.3
17	16	18	16	16	18	28	87	661	876	101	8.7	8.7
18	18	17	16	16	18	29	81	621	803	90	8.4	9.3
19	19	18	16	17	17	30	79	606	587	99	8.4	15
20	17	14	16	17	19	28	75	698	617	113	9.1	17
21	17	18	16	16	18	29	70	754	602	88	9.9	17
22	15	16	17	15	18	30	65	865	557	79	10	16
23	13	14	17	15	18	28	65	949	473	69	11	16
24	13	16	17	15	18	27	63	802	416	61	10	16
25	13	16	17	15	19	27	63	601	380	54	29	15
26	14	16	17	14	20	27	65	657	351	46	21	15
27	16	16	16	14	22	27	62	622	361	39	13	15
28	15	16	15	13	22	24	67	532	401	37	12	15
29	16	16	15	13	---	27	78	572	355	34	12	30
30	15	16	16	13	---	25	91	816	286	31	10	54
31	12	---	15	13	---	29	---	799	---	27	8.7	---
TOTAL	427.2	501	500	459	495	818	2063	15322	19804	4268	422.2	420.2
MEAN	13.8	16.7	16.1	14.8	17.7	26.4	68.8	494	660	138	13.6	14.0
MAX	19	20	17	17	22	31	97	949	1090	308	29	54
MIN	8.3	11	14	13	14	20	26	137	286	27	8.4	6.2
AC-FT	847	994	992	910	982	1620	4090	30390	39280	8470	837	833

STATISTICS OF MONTHLY MEAN BRIS FOR WATER YEARS 1932-1933, BY WATER YEAR (WY)												
MEAN	19.7	18.9	17.2	16.9	18.4	27.6	116	371	253	39.0	9.85	11.4
MAX	62.4	49.2	44.1	36.9	46.5	79.2	323	801	660	189	38.4	55.0
(WY)	1986	1985	1985	1985	1986	1986	1985	1984	1995	1983	1945	1984
MIN	7.29	7.73	7.30	4.42	9.82	12.6	25.2	45.7	23.6	1.27	1.39	3.20
(WY)	1934	1934	1932	1992	1981	1965	1933	1934	1977	1977	1994	1960

WATER YEARS 1932 - 1995

ANNUAL TOTAL	17772.63		45499.6				
ANNUAL MEAN	48.7		125			76.8	
HIGHEST ANNUAL MEAN	--		--			157	1984
LOWEST ANNUAL MEAN	--		--			20.5	1934
HIGHEST DAILY MEAN	452	Apr 24	1090	Jun 6		1500	May 16 1984
LOWEST DAILY MEAN	.33	Aug 8	6.2	Sep 6		.00a	Aug 2 1934
ANNUAL SEVEN-DAY MINIMUM	.71	Jul 26	6.9	Sep 1		.00	Aug 2 1934
INSTANTANEOUS PEAK FLOW	--		1370	Jun 6		2250b	May 16 1984
INSTANTANEOUS PEAK STAGE	--		9.22	Jun 6		11.78c	May 16 1984
ANNUAL RUNOFF (AC-FT)	35250		90250			55650	
10 PERCENT EXCEEDS	145		524			250	
50 PERCENT EXCEEDS	18		18			19	
90 PERCENT EXCEEDS	1.8		12			7.0	

a Also occurred several days years 1936, 1954, and 1977.

b From rating curve extended above 1000 ft³/s.

c From floodmark.

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY

LOCATION.--Lat 41°01'42", long 107°32'55", in SE¹/₄ NW¹/₄ sec.8, T.12 N., R.90 W., Carbon County, Hydrologic Unit 14050003, on left bank 200 ft upstream from highway bridge, 1,000 ft upstream from Willow Creek, and 0.8 mi west of Dixon.

DRAINAGE AREA.--988 mi².

PERIOD OF RECORD.--May 1910 to September 1923, March 1938 to current year. No winter records since 1971. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1920(M). WDR WY-85-1: 1984(M).

GAGE.--Water-stage recorder. Datum of gage is 6,331.22 ft above sea level. May 27, 1910, to Sept. 30, 1923, nonrecording gage on highway bridge 200 ft downstream at datum 2.98 ft higher; Mar. 15, 1938, to Sept. 30, 1957, water-stage recorder at site 225 ft downstream at datum 2.98 ft higher; Oct. 1, 1957, to June 6, 1968, at site 850 ft downstream at present datum; and June 7 to Sept. 30, 1968, at site 225 ft downstream at present datum.

REMARKS.--Estimated daily discharges: May 4-8. Records poor. Diversions for irrigation of about 9,500 acres upstream from station. One diversion upstream from station for irrigation of about 3,000 acres downstream. Transbasin diversions upstream from station. National Weather Service satellite telemeter at station.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,200 ft³/s and maximum (*) during period of operation:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 12	0630	4,320	9.16	June 16	1130	5,000	9.85
June 6	1200	*5,720	*10.41				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	176	698	4340	2080	150	2.3
2	---	---	---	---	---	---	198	753	4270	1920	128	2.2
3	---	---	---	---	---	---	210	1780	4380	2040	112	2.3
4	---	---	---	---	---	---	253	1500	4380	2240	102	2.2
5	---	---	---	---	---	---	350	1280	4910	1910	99	2.3
6	---	---	---	---	---	---	455	1170	5260	1800	90	2.3
7	---	---	---	---	---	---	570	1300	4620	1830	78	2.5
8	---	---	---	---	---	---	732	1530	4110	1860	48	5.0
9	---	---	---	---	---	---	712	1900	4600	1730	25	24
10	---	---	---	---	---	---	594	2090	3660	1710	19	19
11	---	---	---	---	---	---	415	2360	2990	1640	21	3.5
12	---	---	---	---	---	---	429	3420	3230	1530	34	2.7
13	---	---	---	---	---	---	410	2850	3890	1410	24	2.5
14	---	---	---	---	---	---	601	2360	4200	1420	14	2.5
15	---	---	---	---	---	---	513	2870	4570	1200	11	2.3
16	---	---	---	---	---	---	465	3870	4630	996	6.0	2.3
17	---	---	---	---	---	---	535	3620	4490	837	5.6	2.2
18	---	---	---	---	---	---	553	3400	4210	731	7.3	2.5
19	---	---	---	---	---	---	519	3610	3200	726	7.0	5.8
20	---	---	---	---	---	---	475	3860	3090	817	5.6	40
21	---	---	---	---	---	---	470	3800	3040	690	3.3	20
22	---	---	---	---	---	---	400	4280	3040	636	3.1	14
23	---	---	---	---	---	---	359	4680	3090	567	4.0	9.2
24	---	---	---	---	---	---	309	4090	2850	476	4.5	9.2
25	---	---	---	---	---	---	301	3680	2590	416	18	8.8
26	---	---	---	---	---	---	333	3520	2440	356	25	8.8
27	---	---	---	---	---	---	309	3650	2480	277	7.0	5.6
28	---	---	---	---	---	---	346	3770	2640	236	3.3	5.0
29	---	---	---	---	---	---	377	3710	2670	201	2.7	27
30	---	---	---	---	---	---	550	3970	2450	178	2.5	126
31	---	---	---	---	---	---	---	4290	---	168	2.3	---
TOTAL	---	---	---	---	---	---	12919	89661	110320	34628	1062.2	364.0
MEAN	---	---	---	---	---	---	431	2892	3677	1117	34.3	12.1
MAX	---	---	---	---	---	---	732	4680	5260	2240	150	126
MIN	---	---	---	---	---	---	176	698	2440	168	2.3	2.2
AC-FT	---	---	---	---	---	---	25620	177800	218800	68680	2110	722
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1971, BY WATER YEAR (WY)												
MEAN	79.5	94.3	88.8	85.4	101	215	879	2559	1827	175	27.6	27.5
MAX	282	245	160	130	433	744	1991	5698	4035	1160	198	105
(WY)	1917	1921	1921	1917	1962	1919	1962	1920	1917	1917	1916	1965
MIN	6.18	36.3	45.0	37.1	47.8	82.8	298	1065	217	5.17	1.58	.78
(WY)	1961	1956	1923	1963	1967	1965	1961	1954	1954	1966	1966	1962
SUMMARY STATISTICS FOR 1995 WATER YEAR*												
ANNUAL MEAN	---	---	---	---	---	---	---	---	---	---	---	---
HIGHEST ANNUAL MEAN	---	---	---	---	---	---	---	---	---	---	---	---
LOWEST ANNUAL MEAN	---	---	---	---	---	---	---	---	---	---	---	---
HIGHEST DAILY MEAN	---	---	---	---	---	---	5260	Jun 6	---	8960	May 23	1920
LOWEST DAILY MEAN	---	---	---	---	---	---	2.2	Sep 4, 17	---	.00	Several days,	1977, 1982, 1992#
ANNUAL SEVEN-DAY MINIMUM	---	---	---	---	---	---	---	---	---	.35	Sep 3	1969
INSTANTANEOUS PEAK FLOW	---	---	---	---	---	---	5720	Jun 6	---	13000a	May 16	1984#
INSTANTANEOUS PEAK STAGE	---	---	---	---	---	---	10.41	Jun 6	---	13.56b	May 16	1984#
INSTANTANEOUS LOW FLOW	---	---	---	---	---	---	---	---	---	.00	Sep 17	1992
ANNUAL RUNOFF (AC-FT)	---	---	---	---	---	---	---	---	---	372600	---	---
10 PERCENT EXCEEDS	---	---	---	---	---	---	---	---	---	1850	---	---
50 PERCENT EXCEEDS	---	---	---	---	---	---	---	---	---	100	---	---
90 PERCENT EXCEEDS	---	---	---	---	---	---	---	---	---	8.0	---	---

* During period of operation.

For period of record through 1995.

a From rating curve extended above 10,000 ft³/s, some increase in peak caused by dam failure.

b From floodmarks.

GREEN RIVER BASIN

09259050 LITTLE SNAKE RIVER BELOW BAGGS, WY

LOCATION.--Lat 41°01'43", long 107°41'14", in SE¹/4 NW¹/4 sec.7, T.12 N., R.92 W., Carbon County, Hydrologic Unit 14050003, 0.8 mi downstream from Ledford Slough, 1.5 mi southwest of Baggs, and 3.5 mi downstream from bridge on State Highway 789 in Baggs.

PERIOD OF RECORD.--Water years 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
MAR 22...	1130	698	382	8.2	6.0	8.0	601	9.4	96
MAY 24...	1445	4050	162	7.9	6.5	12.0	605	9.1	93
JUN 29...	1315	2830	87	7.6	12.0	25.0	612	8.8	102
SEP 01...	1710	2.8	489	8.6	24.5	24.5	614	9.5	143

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
MAR 22...	140	38	11	22	0.8	2.5	121	70
MAY 24...	63	18	4.4	6.1	0.3	1.2	64	15
SEP 01...	180	45	17	41	1	3.5	197	58

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
MAR 22...	5.6	0.2	15	279	74	44	715	1350
MAY 24...	1.6	0.1	14	111	360	14	852	9320
JUN 29...	--	--	--	--	--	--	162	1240
SEP 01...	8.2	0.4	7.4	314	58	16	7	0.05

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE¹/₄ NW¹/₄ SE¹/₄ sec. 30, T. 3 N., R. 10 E., Summit County, Utah
Hydrologic Unit 16010101, on left bank 400 ft downstream from West Fork and 2.8 mi upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi².

PERIOD OF RECORD.--July 1942 to current year.

REVISED RECORDS.--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 those for estimated daily discharges, which are poor. Flow regulated slightly by Whitney Reservoir, total capacity, 4,700 acre-ft since 1966. Three diversions upstream from station for irrigation of about 265 acres upstream and 2,600 acres downstream from 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 (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 6	0100	1,800	6.47	June 15	2400	*2,560	*7.06

Minimum daily discharge, 33 ft³/s, Feb. 16, 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	72	54	e49	e53	46	50	99	740	1540	343	85
2	60	67	55	e55	e42	44	53	126	1090	1540	311	90
3	76	58	52	e50	41	43	54	111	1100	1940	292	83
4	85	48	51	e56	45	44	59	116	983	1540	277	94
5	105	74	51	e62	44	44	71	130	1180	1360	258	136
6	94	69	51	e64	44	44	76	122	1570	1490	245	115
7	83	68	50	e65	44	47	79	123	1110	1660	232	108
8	78	63	e58	e64	42	50	86	129	951	1700	225	112
9	74	55	e45	e74	41	46	71	145	722	1550	217	187
10	72	61	e45	e74	41	46	70	187	632	1640	212	184
11	72	59	e50	e66	41	59	67	221	772	1690	236	179
12	72	62	e61	e62	43	57	71	209	1310	1770	219	175
13	70	54	e54	e65	46	53	90	179	1820	1630	208	172
14	69	47	e52	e68	41	57	100	206	2060	1400	190	168
15	78	57	e54	e62	e34	62	83	285	2160	1200	169	163
16	81	61	e60	e59	e33	64	76	336	1980	1060	156	159
17	87	59	e62	e59	e33	65	77	319	1570	999	156	116
18	86	e60	e50	e56	38	68	71	370	1460	966	142	76
19	77	e54	e59	e55	40	71	74	413	1460	989	134	74
20	78	e58	e53	e50	40	65	70	511	1650	849	127	70
21	80	62	e48	e53	43	67	67	585	1680	744	160	69
22	79	e58	e53	e50	45	60	67	685	1620	674	158	68
23	75	e52	e62	e45	45	59	68	766	1550	615	144	67
24	72	e54	e68	e47	46	57	64	597	1590	560	153	63
25	74	56	e71	e54	45	49	71	561	1690	526	130	48
26	74	56	e74	e49	46	55	72	538	1730	495	118	47
27	76	61	e60	e46	44	52	83	474	1900	470	110	48
28	71	59	e66	e43	43	47	104	456	1930	437	104	46
29	65	58	e71	e40	---	45	102	488	1760	419	99	53
30	54	55	e62	e44	---	50	107	536	1600	408	92	56
31	55	---	e55	e48	---	44	---	582	---	384	88	---
TOTAL	2333	1777	1757	1734	1183	1660	2253	10605	43370	34245	5705	3111
MEAN	75.3	59.2	56.7	55.9	42.2	53.5	75.1	342	1446	1105	184	104
MAX	105	74	74	74	53	71	107	766	2160	1940	343	187
MIN	54	47	45	40	33	43	50	99	632	384	88	46
AC-FT	4630	3520	3490	3440	2350	3290	4470	21040	86020	67920	11320	6170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1943	62.5	208	1983	30.8	1959
1944	54.1	106	1984	32.5	1955
1945	46.6	94.9	1984	27.7	1960
1946	41.9	72.4	1984	29.6	1991
1947	40.0	64.3	1984	25.3	1964
1948	43.1	69.0	1986	26.0	1964
1949	112	316	1946	37.2	1944
1950	592	1044	1984	162	1977
1951	864	1990	1986	204	1992
1952	306	1105	1995	67.4	1961
1953	95.1	244	1965	37.5	1954
1954	72.2	229	1983	23.9	1956

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1943 - 1995
ANNUAL TOTAL	49608	109733	---
ANNUAL MEAN	136	301	194
HIGHEST ANNUAL MEAN	---	---	335
LOWEST ANNUAL MEAN	---	---	81.5
HIGHEST DAILY MEAN	968	2160	2680
LOWEST DAILY MEAN	22	33	18
ANNUAL SEVEN-DAY MINIMUM	29	37	21
ANNUAL RUNOFF (AC-FT)	98400	217700	140800
10 PERCENT EXCEEDS	385	1140	610
50 PERCENT EXCEEDS	58	72	58
90 PERCENT EXCEEDS	39	45	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 NE¹/₄ SE¹/₄ SW¹/₄ 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 Oct. 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 upstream from 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, 175 ft³/s, June 6, gage height, 7.01 ft; minimum daily, 0.21 ft³/s, Oct. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	2.6	4.5	10	9.2	23	15	18	80	20	14	.39
2	.21	2.7	4.7	8.1	18	21	15	48	97	23	16	.42
3	.49	2.5	4.8	8.4	17	17	14	43	92	51	14	.39
4	.87	3.3	5.0	9.5	25	20	15	27	90	42	12	.32
5	1.0	4.6	4.9	e9.7	32	19	15	23	91	25	13	e.35
6	1.1	6.3	5.0	e10	33	26	16	21	113	22	9.0	e.33
7	1.0	7.5	5.6	e10	25	38	15	17	56	20	4.6	e.34
8	.62	6.0	5.6	e10.8	24	35	18	13	70	18	3.1	e.36
9	.41	4.6	5.4	e9.8	20	27	16	14	61	22	2.4	e.37
10	.32	5.0	5.0	e9.0	12	21	15	18	52	23	2.7	e.37
11	.27	4.4	5.0	e9.2	8.9	30	12	26	56	25	2.3	e.35
12	.26	4.5	5.0	e9.8	8.9	82	13	29	79	32	1.8	e.34
13	.26	3.8	5.0	e10	11	67	11	26	78	34	1.5	e.33
14	.27	3.6	5.1	e9.8	12	72	12	24	69	26	1.3	e.35
15	.67	3.6	5.6	e9.0	14	92	11	21	65	19	1.5	e.37
16	1.3	3.9	6.2	e9.4	e12	71	12	34	55	13	1.6	e.39
17	2.3	3.5	6.2	e10	e10	64	15	26	39	9.3	1.3	e.40
18	4.0	4.4	7.0	10	13	63	14	37	51	11	1.2	e.41
19	4.2	5.3	6.7	9.8	15	80	17	44	42	26	1.3	e.41
20	3.9	e4.5	7.0	10	20	49	24	62	39	33	1.2	e.40
21	3.6	e4.1	8.6	10	26	37	26	70	35	21	1.2	e.39
22	3.6	e4.7	9.2	9.8	31	27	24	68	30	15	1.5	e.38
23	3.9	e4.3	9.6	9.3	35	32	21	110	24	17	1.4	e.37
24	3.7	3.9	e9.5	8.8	39	23	15	87	29	16	1.3	e.35
25	3.5	4.0	e9.4	8.9	40	22	12	68	31	10	1.0	e.34
26	3.4	4.1	e9.7	9.2	39	24	12	79	28	6.9	1.0	e.35
27	3.3	4.1	e10	e8.7	34	21	12	74	26	10	.68	e.37
28	3.1	4.1	e11	e8.4	38	18	15	65	30	14	.54	e.60
29	2.6	4.1	e9.9	e8.2	---	17	15	58	30	12	.47	e1.2
30	2.0	4.4	e9.4	e8.6	---	16	21	60	22	11	.50	e1.8
31	2.3	---	e9.8	e8.8	---	15	---	70	---	13	.48	---
TOTAL	58.67	128.4	215.4	291.0	622.0	1169	468	1380	1660	640.2	115.87	13.54
MEAN	1.89	4.28	6.95	9.39	22.2	37.7	15.6	44.5	55.3	20.7	3.74	.45
MAX	4.2	7.5	11	11	40	92	26	110	113	51	16	1.8
MIN	.21	2.5	4.5	8.1	8.9	15	11	13	22	6.9	.47	.32
AC-FT	116	255	427	577	1230	2320	928	2740	3290	1270	230	27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1995, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	1.87	3.74	3.91	4.06	5.78	24.2	34.2	48.4
MAX	6.77	11.8	6.95	9.39	22.2	52.7	64.6	154
(WY)	1992	1992	1995	1995	1989	1988	1993	1995
MIN	.18	.59	1.17	1.11	1.18	2.80	15.6	11.4
(WY)	1991	1991	1991	1991	1991	1991	1995	1992

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1988 - 1995
ANNUAL TOTAL	3366.28	6762.08	---
ANNUAL MEAN	9.22	18.5	13.2
HIGHEST ANNUAL MEAN	---	---	25.1
LOWEST ANNUAL MEAN	---	---	7.09
HIGHEST DAILY MEAN	53	113	394
LOWEST DAILY MEAN	.00	.21	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.34	.00
ANNUAL RUNOFF (AC-FT)	6680	13410	9590
10 PERCENT EXCEEDS	25	51	39
50 PERCENT EXCEEDS	5.0	10	3.5
90 PERCENT EXCEEDS	.06	.48	.12

e Estimated.

BEAR RIVER BASIN

271

10016900 BEAR RIVER AT EVANSTON, WY

LOCATION.--Lat 41°16'13", long 110°57'47", in NE¹/4 NW¹/4 NW¹/4 sec.21, T.15 N., R.120 W., Uinta County, Hydrologic Unit 16010101, on left bank 100 ft downstream from bridge on State Highway 89, in the City of Evanston.

DRAINAGE AREA.--433 mi².

PERIOD OF RECORD.--May 1984 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 6,730 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records poor. 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. 3 . . . 40.4
Mar. 29 . . . 128.0

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	117	176	1020	1430	219	41
2	---	---	---	---	---	---	123	248	1290	1470	174	42
3	---	---	---	---	---	---	116	320	1510	1720	162	46
4	---	---	---	---	---	---	110	267	1470	2010	147	49
5	---	---	---	---	---	---	122	260	1440	1380	134	62
6	---	---	---	---	---	---	135	261	1930	1290	133	60
7	---	---	---	---	---	---	130	240	1580	1440	120	59
8	---	---	---	---	---	---	145	241	1390	1480	101	59
9	---	---	---	---	---	---	132	243	1130	1290	95	56
10	---	---	---	---	---	---	118	288	973	1350	101	56
11	---	---	---	---	---	---	112	350	938	1400	120	60
12	---	---	---	---	---	---	113	395	1240	1500	117	62
13	---	---	---	---	---	---	118	345	1700	1500	105	63
14	---	---	---	---	---	---	149	338	2140	1230	99	60
15	---	---	---	---	---	---	139	377	2380	1050	90	59
16	---	---	---	---	---	---	124	500	2380	918	81	56
17	---	---	---	---	---	---	132	424	1740	835	81	73
18	---	---	---	---	---	---	131	484	1600	745	67	76
19	---	---	---	---	---	---	134	545	1490	819	58	60
20	---	---	---	---	---	---	151	624	1610	796	52	46
21	---	---	---	---	---	---	161	755	1690	716	51	43
22	---	---	---	---	---	---	147	887	1610	647	80	41
23	---	---	---	---	---	---	136	1060	1470	598	80	41
24	---	---	---	---	---	---	133	949	1420	534	77	35
25	---	---	---	---	---	---	123	896	1540	464	76	32
26	---	---	---	---	---	---	126	876	1550	405	65	29
27	---	---	---	---	---	---	128	852	1740	334	59	27
28	---	---	---	---	---	---	151	749	1780	284	54	25
29	---	---	---	---	---	---	162	748	1750	257	49	44
30	---	---	---	---	---	---	178	809	1510	241	44	57
31	---	---	---	---	---	---	---	860	---	232	42	---
TOTAL	---	---	---	---	---	---	3996	16367	47011	30365	2933	1519
MEAN	---	---	---	---	---	---	133	528	1567	980	94.6	50.6
MAX	---	---	---	---	---	---	178	1060	2380	2010	219	76
MIN	---	---	---	---	---	---	110	176	938	232	42	25
AC-FT	---	---	---	---	---	---	7930	32460	93250	60230	5820	3010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
MEAN	---	---	---	---	---
MAX	---	---	---	---	---
(WY)	---	---	---	---	---
MIN	---	---	---	---	---
(WY)	---	---	---	---	---

SUMMARY STATISTICS

HIGHEST DAILY MEAN

LOWEST DAILY MEAN

ANNUAL SEVEN-DAY MINIMUM

INSTANTANEOUS PEAK FLOW

INSTANTANEOUS PEAK STAGE

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

FOR 1995 WATER YEAR*

2380 Jun 15, 16

25 Sep 28

2770 Jun 15

6.40 Jun 15

WATER YEARS 1984 - 1995*

3160 May 16 1984

3.8 Sep 30 1992

5.3 Aug 18 1988

3680 May 16 1984

7.35 May 16 1984

995

155

23

* During period of operation.

BEAR RIVER BASIN

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NE¹/₄ NW¹/₄ sec. 29, T. 17 N., R. 120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 9.3 mi upstream from Woodruff Narrows Dam and 10 mi southeast of Woodruff. DRAINAGE AREA.--752 mi².

WATER-DISCHARGE RECORDS

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 upstream from 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, 3,130 ft³/s, June 16, gage height, 5.43 ft; minimum daily discharge, 0.50 ft³/s, Oct. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	9.8	e28	e50	e56	e123	125	114	715	1770	217	11
2	.77	13	e30	e54	e60	e128	80	114	993	1740	199	11
3	7.3	17	e31	e50	e64	e130	83	216	1380	1790	168	12
4	20	11	e34	e57	e66	e131	73	173	1460	2570	154	17
5	44	10	e39	e63	e72	e134	73	155	1390	1980	142	21
6	77	14	e44	e64	e66	e142	83	169	1650	1530	132	28
7	77	23	e49	e65	e67	e158	88	148	1830	1610	124	32
8	60	30	e55	e67	e70	e170	90	141	1570	1620	111	33
9	53	22	e46	e74	e73	e150	104	142	1640	1700	97	26
10	44	16	e44	e70	e75	e170	80	149	1300	1540	90	24
11	36	14	e51	e63	e78	e190	77	198	1190	1670	94	28
12	39	18	e57	e62	e80	e180	71	251	1450	1750	108	30
13	41	24	e53	e66	e84	e190	71	250	1970	1910	109	31
14	43	19	e54	e66	e87	e197	80	211	2540	1700	101	30
15	54	10	e55	e61	e94	e201	102	230	2860	1340	93	28
16	54	11	e57	e58	e88	e211	86	284	3060	1220	85	26
17	59	9.7	e60	e57	e86	e220	80	306	2980	1070	75	19
18	74	13	e50	e56	e87	e243	88	282	2330	910	64	28
19	31	12	e56	e55	e89	e270	84	361	2020	940	53	56
20	19	13	e50	e51	e90	e300	98	399	1970	1020	44	44
21	15	14	e49	e52	e92	316	103	527	2080	926	39	50
22	15	9.7	e54	e48	e94	297	96	640	2090	819	37	45
23	16	14	e64	e47	e97	261	89	819	1900	712	48	42
24	13	e15	e68	e50	e100	263	86	938	1720	633	57	42
25	12	e17	e71	e54	e108	223	75	833	1790	544	58	43
26	12	e20	e65	e50	e112	207	79	766	1900	465	51	41
27	13	e22	e62	e50	e118	211	79	790	1930	384	44	25
28	13	e21	e68	e48	e120	192	83	675	2180	318	41	14
29	12	e24	e66	e47	---	179	102	612	2310	272	34	21
30	11	e26	e58	e51	---	169	100	613	2010	241	33	35
31	9.5	---	e53	e54	---	168	---	630	---	224	17	---
TOTAL	975.07	492.2	1621	1760	2373	6124	2608	12136	56208	36918	2719	893
MEAN	31.5	16.4	52.3	56.8	84.7	198	86.9	391	1874	1191	87.7	29.8
MAX	77	30	71	74	120	316	125	938	3060	2570	217	56
MIN	.50	9.7	28	47	56	123	71	114	715	224	17	11
AC-FT	1930	976	3220	3490	4710	12150	5170	24070	111500	73230	5390	1770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

	75.6	70.6	70.4	67.2	84.1	162	341	813	876	209	52.0	51.5
MAX	437	198	181	147	312	627	671	1957	2564	1191	340	288
(WY)	1983	1974	1984	1984	1986	1986	1969	1984	1986	1995	1983	1983
MIN	3.03	6.06	7.21	6.76	13.8	26.8	77.7	104	54.6	4.84	2.26	.49
(WY)	1965	1989	1989	1989	1993	1977	1977	1977	1992	1988	1988	1988

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1962 - 1995
ANNUAL TOTAL	39179.50	124827.27	---
ANNUAL MEAN	107	342	239
HIGHEST ANNUAL MEAN	---	---	583
LOWEST ANNUAL MEAN	---	---	45.1
HIGHEST DAILY MEAN	1030	3060	3900
LOWEST DAILY MEAN	.24	.50	.00
ANNUAL SEVEN-DAY MINIMUM	.28	11	.00
ANNUAL RUNOFF (AC-FT)	77710	247600	173500
10 PERCENT EXCEEDS	287	1490	702
50 PERCENT EXCEEDS	50	77	82
90 PERCENT EXCEEDS	2.0	17	9.3

e Estimated.

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
NOV 16...	0940	13	482	8.5	0.0	0.0	594	11.4	100	220
APR 19...	1610	76	455	8.6	8.0	3.0	594	9.9	108	200
MAY 17...	1225	300	336	8.4	11.0	14.0	600	8.4	97	160
JUN 27...	1730	2000	145	8.2	15.0	20.0	606	7.7	96	71

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
NOV 16...	52	22	19	0.6	2.6	211	24	25	0.1
APR 19...	49	19	14	0.4	1.6	194	24	22	0.1
MAY 17...	40	14	8.1	0.3	1.4	148	13	12	0.1
JUN 27...	20	5.2	2.4	0.1	8.7	77	3.1	2.6	<0.1

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, DIS- SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
NOV 16...	8.8	289	280	0.39	10.1	33	14	64	2.2
APR 19...	5.6	264	252	0.36	54.2	38	29	51	10
MAY 17...	7.0	202	184	0.27	164	19	16	165	134
JUN 27...	5.0	91	93	0.12	491	44	7	180	972

BEAR RIVER BASIN

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'10", long 111°00'55", in SE¹/₄ NW¹/₄ NW¹/₄ 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, 60,600 acre-ft July 16-19, gage height, unknown; minimum contents, 7,500 acre-ft Oct. 1, gage height, 17.5 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7500	8600	9280	e11400	e13600	e16800	28880	24670	e25300	48880	59380	53670
2	7650	8570	9230	e11500	e13600	e17000	28530	24680	e25800	49720	59380	53420
3	7700	8550	9320	e11500	e13700	e17200	28720	24710	e26200	50510	59250	53090
4	7740	8550	9450	e11600	e13800	e17400	28580	24780	e26700	51400	59150	52700
5	7710	8560	9540	e11700	e13900	e17600	28320	25160	e27200	52270	59180	52330
6	7790	8560	9620	e11800	e14000	e17800	28110	25740	28160	53150	59040	51930
7	7900	8570	9730	e11900	e14100	e18100	28010	25600	28370	54040	58900	51180
8	8000	8590	9750	e12000	e14200	e18400	27820	25100	28660	54980	58180	51320
9	8080	8620	9840	e12100	e14300	e18600	27650	24860	29750	55790	56280	50720
10	8120	8640	9880	e12200	e14400	e18900	27510	24930	30580	56650	56140	49700
11	8150	8650	9900	e12200	e14500	e19400	27130	24980	30870	57580	56150	49120
12	8180	8670	9960	e12300	e14600	e20000	e26600	25100	31180	58430	56020	48710
13	8220	8690	e10000	e12400	e14700	e20200	e26300	25120	31480	e59700	55900	48290
14	8270	8710	e10100	e12500	e14900	e20600	e26000	25270	31760	e60400	55920	47900
15	8310	8700	e10200	e12600	e15000	e21100	e25600	25080	32040	e60500	55800	47540
16	8380	8720	e10200	e12600	e15100	e21600	e25500	25070	32620	e60600	55690	47230
17	8470	8730	e10300	e12700	e15300	e22300	e25300	25150	34190	e60600	55670	46950
18	8550	8720	e10400	e12800	e15400	e22900	25100	25270	35860	e60600	55600	46660
19	8630	8730	e10400	e12800	e15500	e23800	25060	25210	37560	e60600	55610	46370
20	8640	8710	e10500	e12900	e15600	e25000	24960	25300	39870	e60500	55490	46040
21	8640	8710	e10500	e13000	e15400	e27300	24860	24860	41090	e60400	55320	45740
22	8630	8680	e10600	e13000	e15600	e27300	24760	24770	41860	e60400	55290	45460
23	8630	8670	e10700	e13100	e15700	e27300	24690	25390	42670	e60300	55210	45160
24	8630	8660	e10800	e13100	e15900	e27300	24610	26230	43440	e60100	55100	44860
25	8620	8670	e10900	e13200	e16000	e27300	24640	25050	44230	e60000	55000	44580
26	8610	8740	e11000	e13200	e16200	27010	24670	e25000	45040	59780	55000	44290
27	8600	8850	e11100	e13300	e16400	27200	24630	e25000	45700	59810	54880	44010
28	8580	8960	e11100	e13300	e16600	26970	24670	e25000	46450	59780	54770	43700
29	8570	9000	e11200	e13400	---	27560	24730	e25000	47240	59620	54470	43410
30	8560	9130	e11300	e13400	---	28220	24760	e25000	48070	59570	54360	43110
31	8540	---	e11400	e13500	---	28520	---	e24800	---	59490	54180	---
MAX	8640	9130	11400	13500	16600	28520	28880	26230	48070	60600	59380	53670
MIN	7500	8550	9230	11400	13600	16800	24610	24670	25300	48880	54180	43110
(#)	18.8	19.5	--	--	--	35.5	33.2	--	46.2	51.4	49.0	43.7
(*)	+1320	+590	+2270	+2100	+3100	+11920	-3760	+40	+23270	+11420	-5310	-11070

CAL YR 1994 (*) -21500

CAL YR 1995 (*) +35890

(#) 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 NW¹/₄ NW¹/₄ sec. 32, T. 18 N., R. 120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 1,100 ft downstream from Woodruff Narrows Dam, 1.6 mi upstream from Salt Creek, 5.4 mi upstream from Wyoming-Utah State line, and 7.7 mi east of Woodruff.

DRAINAGE AREA.--784 mi².

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--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 upstream from 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, 1,410 ft³/s, July 14, gage height, 6.08 ft; minimum daily discharge, 16 ft³/s, Oct. 3-9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	20	22	22	24	169	91	716	896	e173	766
2	17	19	20	22	22	24	169	91	713	871	e162	647
3	16	19	21	22	22	25	168	92	719	872	e150	493
4	16	19	21	22	22	25	167	93	803	877	e140	391
5	16	19	21	21	22	25	167	93	1110	885	131	389
6	16	19	20	22	22	25	167	93	1440	888	122	388
7	16	20	21	21	22	26	167	94	1440	873	117	388
8	16	19	21	22	22	26	167	94	1440	779	94	384
9	16	19	21	22	22	26	167	95	1440	642	85	383
10	18	19	21	22	22	27	167	96	1430	656	84	269
11	19	20	20	22	23	27	166	96	1420	1010	85	55
12	19	20	20	22	23	27	165	161	1280	1200	84	54
13	19	19	21	22	23	28	165	217	960	1340	77	54
14	19	20	21	22	23	28	165	218	973	1360	71	55
15	20	20	21	22	22	29	165	219	990	1170	71	55
16	19	20	21	22	23	27	165	221	1010	1010	70	54
17	19	20	21	22	23	27	165	221	983	892	102	54
18	19	20	21	22	23	110	165	223	967	796	124	53
19	19	20	21	22	23	166	165	635	941	735	124	53
20	20	20	21	22	23	167	165	941	911	e700	124	51
21	20	20	21	22	23	167	165	931	920	e685	124	48
22	20	20	21	22	24	167	132	928	893	e645	124	48
23	20	20	21	22	23	169	114	874	857	e600	124	48
24	20	20	21	22	24	167	114	840	864	e490	124	48
25	20	20	21	22	24	167	114	839	872	e350	124	48
26	20	20	21	22	24	168	114	839	878	e320	125	48
27	20	20	21	22	23	169	101	841	878	e270	126	46
28	20	20	21	22	23	169	90	838	885	e220	126	42
29	20	20	21	22	---	169	90	837	896	e200	126	42
30	20	20	21	22	---	169	91	800	906	e195	570	42
31	20	---	22	22	---	169	---	719	---	e182	874	---
TOTAL	577	591	647	680	637	2739	4451	13370	30535	22609	4757	5496
MEAN	18.6	19.7	20.9	21.9	22.7	88.4	148	431	1018	729	153	183
MAX	20	20	22	22	24	169	169	941	1440	1360	874	766
MIN	16	19	20	21	22	24	90	91	713	182	70	42
AC-FT	1140	1170	1280	1350	1260	5430	8830	26520	60570	44840	9440	10900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

	MEAN	56.2	55.1	46.2	44.6	48.8	102	283	779	989	291	80.4	57.2
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 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1962 - 1995
ANNUAL TOTAL	54055.7	87089	--
ANNUAL MEAN	148	239	236
HIGHEST ANNUAL MEAN	--	--	509
LOWEST ANNUAL MEAN	--	--	44.3
HIGHEST DAILY MEAN	1130	May 24	1440
LOWEST DAILY MEAN	6.9	Aug 31	16
ANNUAL SEVEN-DAY MINIMUM	8.2	Aug 4	16
ANNUAL RUNOFF (AC-FT)	107200	172700	171100
10 PERCENT EXCEEDS	762	877	796
50 PERCENT EXCEEDS	32	54	40
90 PERCENT EXCEEDS	12	20	8.6

e Estimated.

BEAR RIVER BASIN

10027000 TWIN CREEK AT SAGE, WY

LOCATION.--Lat 41°48'36", long 110°58'12", in NE¹/₄ SW¹/₄ SE¹/₄ sec.7, T.21 N., R.119 W., Lincoln County, Hydrologic Unit 16010101, 0.5 mi downstream from Bulldog Hollow, 0.5 mi southwest of Sage, 0.8 mi southeast of junction of U.S. Highway 30 and State Highway 89, and 5.0 mi upstream from mouth.

DRAINAGE AREA.--246 mi².

PERIOD OF RECORD.--Water years 1975 to 1981, October 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV 15...	0845	3.1	892	8.4	0.0	-4.0	610	12.0	103	430	100
MAR 20...	1645	41	648	8.4	6.0	10.0	600	9.6	98	240	54
APR 19...	1145	19	996	8.7	4.0	3.0	597	10.4	102	400	87
MAY 16...	1505	38	847	8.8	16.0	16.0	601	8.8	114	350	79
JUN 26...	1510	20	864	8.6	22.0	25.0	610	8.6	124	370	78

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
NOV 15...	44	47	1	4.1	228	270	35	0.4	8.8	627	646
MAR 20...	26	39	1	4.5	155	150	24	0.3	8.1	440	400
APR 19...	44	56	1	3.3	250	260	33	0.4	8.3	692	642
MAY 16...	37	35	0.8	3.1	246	180	22	0.3	9.2	553	513
JUN 26...	42	40	0.9	0.70	228	200	24	0.4	11	566	533

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV 15...	0.85	5.25	<0.01	<0.05	<0.02	<0.01	6	9	126	1.1
MAR 20...	0.60	48.7	0.02	0.11	0.03	0.11	25	50	393	44
APR 19...	0.94	35.5	<0.01	<0.05	<0.02	<0.01	4	35	160	8.2
MAY 16...	0.75	56.7	<0.01	<0.05	<0.02	<0.01	<3	15	192	20
JUN 26...	0.77	30.6	<0.01	0.05	<0.02	<0.01	<3	13	116	6.3

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SE¹/₄ SE¹/₄ sec. 25, T. 23 N., R. 120 W., Lincoln County, Hydrologic Unit 16010102, 800 ft downstream from Pixley Dam, 11 mi south of Cokeville, and 17.5 mi downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi².

PERIOD OF RECORD.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1958 to current year (seasonal only). Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--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.--No estimated daily discharges. Records good. 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, 1,150 ft³/s, July 18, 19; minimum daily discharge, 18 ft³/s, May 19-22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	257	125	150	414	331	89
2	---	---	---	---	---	---	249	132	225	435	289	261
3	---	---	---	---	---	---	242	73	320	511	276	308
4	---	---	---	---	---	---	237	75	400	690	266	294
5	---	---	---	---	---	---	238	96	405	694	246	281
6	---	---	---	---	---	---	238	90	432	813	218	206
7	---	---	---	---	---	---	233	78	557	779	205	110
8	---	---	---	---	---	---	232	72	609	767	197	67
9	---	---	---	---	---	---	249	36	678	779	185	62
10	---	---	---	---	---	---	248	28	801	783	175	50
11	---	---	---	---	---	---	234	37	881	809	164	64
12	---	---	---	---	---	---	225	28	864	772	156	69
13	---	---	---	---	---	---	220	26	812	836	149	63
14	---	---	---	---	---	---	211	25	800	927	141	56
15	---	---	---	---	---	---	208	24	804	1030	135	51
16	---	---	---	---	---	---	205	23	767	1090	124	47
17	---	---	---	---	---	---	200	20	701	1130	114	44
18	---	---	---	---	---	---	201	19	666	1150	107	40
19	---	---	---	---	---	---	193	18	662	1150	91	36
20	---	---	---	---	---	---	177	18	657	1090	77	33
21	---	---	---	---	---	---	158	18	625	981	78	33
22	---	---	---	---	---	---	162	18	563	899	78	43
23	---	---	---	---	---	---	166	20	526	863	81	50
24	---	---	---	---	---	---	168	23	498	824	85	52
25	---	---	---	---	---	---	157	22	471	775	89	59
26	---	---	---	---	---	---	149	23	462	690	86	72
27	---	---	---	---	---	---	147	34	445	620	80	103
28	---	---	---	---	---	---	149	52	383	565	78	132
29	---	---	---	---	---	---	157	70	377	494	60	109
30	---	---	---	---	---	---	136	89	384	432	55	95
31	---	---	---	---	---	---	---	132	---	381	59	---
TOTAL	---	---	---	---	---	---	6046	1544	16925	24173	4475	2979
MEAN	---	---	---	---	---	---	202	49.8	564	780	144	99.3
MAX	---	---	---	---	---	---	257	132	881	1150	331	308
MIN	---	---	---	---	---	---	136	18	150	381	55	33
AC-FT	---	---	---	---	---	---	11990	3060	33570	47950	8880	5910

BEAR RIVER BASIN

10032000 SMITHS FORK NEAR BORDER, WY

LOCATION.--Lat 42°17'36", long 110°52'18", in NE¹/₄ SW¹/₄ sec. 28, T. 27 N., R. 118 W., Lincoln County, Hydrologic Unit 16010102, on left bank 4.9 mi upstream from Howland Creek, 5.6 mi downstream from Hobbie Creek, and 12.4 mi northeast of Border.

DRAINAGE AREA.--165 mi².

PERIOD OF RECORD.--May 1942 to current year.

REVISED RECORDS.--WSP 1734: 1952(M).

GAGE.--Water-stage recorder. Elevation of gage is 6,720 ft above 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, 1,090 ft³/s, June 15, gage height, 3.88 ft; minimum daily discharge, 35 ft³/s, Dec. 14, 18, 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	64	63	e44	e38	e57	60	59	179	615	617	262	141	
2	59	64	e50	e41	e61	70	63	190	651	596	261	141	
3	59	60	e57	e38	e50	61	66	195	686	617	256	139	
4	64	69	e57	e44	e48	61	73	212	695	624	252	139	
5	65	66	e48	e47	e45	63	90	245	712	587	247	138	
6	72	65	e48	e52	e48	63	103	280	900	570	243	137	
7	68	65	e44	e52	e51	61	116	248	730	566	235	134	
8	62	62	e42	e56	48	61	126	247	672	565	228	135	
9	58	58	e41	e62	47	61	109	297	638	551	224	132	
10	58	61	e42	e62	50	61	102	343	614	536	226	133	
11	57	60	e45	e52	52	68	95	363	581	530	217	130	
12	58	62	e53	e48	59	78	97	385	619	528	207	125	
13	58	59	e53	e54	65	70	109	353	778	504	201	123	
14	60	e53	e35	e59	67	65	136	322	957	460	198	120	
15	74	e43	e40	e54	75	65	126	317	1070	437	190	117	
16	66	e48	e44	e49	85	64	121	378	1020	421	187	115	
17	64	e45	e40	e43	90	62	121	409	917	406	183	112	
18	66	e49	e35	e43	57	63	126	454	850	394	178	113	
19	63	e45	e44	e43	51	66	128	468	777	386	174	109	
20	61	e44	e38	e40	52	62	122	487	755	386	171	106	
21	60	e41	e35	e43	55	69	121	514	751	366	169	105	
22	60	e37	e36	e41	60	73	121	546	736	358	167	104	
23	58	e40	e42	e39	61	66	122	574	700	345	171	104	
24	60	e43	e52	e47	60	70	126	537	680	334	174	104	
25	60	e46	e53	e56	61	65	133	514	685	324	162	105	
26	61	e41	e56	e53	62	63	137	513	693	312	155	106	
27	61	e37	e44	e50	63	60	145	494	704	302	151	102	
28	62	e43	e47	e47	60	62	172	476	687	296	150	102	
29	60	e40	e52	e44	---	60	180	476	669	289	146	102	
30	58	e48	e48	e49	---	59	189	493	642	279	143	101	
31	59	---	e40	e52	---	58	---	550	---	273	141	---	
TOTAL	1915	1557	1405	1498	1640	1990	3534	12059	22184	13759	6069	3574	
MEAN	61.8	51.9	45.3	48.3	58.6	64.2	118	389	739	444	196	119	
MAX	74	69	57	62	90	78	189	574	1070	624	262	141	
MIN	57	37	35	38	45	58	59	179	581	273	141	101	
AC-FT	3800	3090	2790	2970	3250	3950	7010	23920	44000	27290	12040	7090	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1995, BY WATER YEAR (WY)													
MEAN	61.8	51.9	45.3	48.3	58.6	64.2	118	389	739	444	196	119	
MAX	61.8	51.9	45.3	48.3	58.6	64.2	118	389	739	444	196	119	
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	
MIN	61.8	51.9	45.3	48.3	58.6	64.2	118	389	739	444	196	119	
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	
SUMMARY STATISTICS													
			FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1943 - 1995		
ANNUAL TOTAL				36079				71184				--	
ANNUAL MEAN				98.8				195				193	
HIGHEST ANNUAL MEAN				--				--				324	
LOWEST ANNUAL MEAN				--				--				71.1	
HIGHEST DAILY MEAN				424				1070				2000	
LOWEST DAILY MEAN				35				35				32	
ANNUAL SEVEN-DAY MINIMUM				39				39				35	
ANNUAL RUNOFF (AC-FT)				71560				141200				139900	
10 PERCENT EXCEEDS				221				572				518	
50 PERCENT EXCEEDS				70				75				90	
90 PERCENT EXCEEDS				48				44				58	

e Estimated.

BEAR RIVER BASIN

279

10035000 SMITHS FORK AT COKEVILLE, WY

LOCATION.--Lat 42°05'47", long 110°56'24", in NE¹/₄ NW¹/₄ NW¹/₄ sec.4, T.24 N., R.119 W., Lincoln County, Hydrologic Unit 16010102, 900 ft upstream from U.S. Highway 30N, 1 mi northeast of Cokeville, and 2 mi upstream from mouth.

DRAINAGE AREA.--275 mi².

PERIOD OF RECORD.--Water years 1983-88, 1989-1992, October 1993 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)
NOV 15...	1345	50	430	8.4	0.0	-1.0	605	12.9
APR 19...	0910	158	426	8.5	4.0	3.0	595	10.1
MAY 17...	0905	471	365	8.5	6.0	14.0	601	9.7
JUN 27...	1245	690	322	8.4	11.0	13.0	610	9.0

DATE	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)
NOV 15...	111	<0.01	<0.05	<0.02	<0.01	89	12
APR 19...	99	<0.01	<0.05	<0.02	<0.01	125	53
MAY 17...	99	<0.01	0.05	<0.02	0.02	344	437
JUN 27...	102	<0.01	0.08	0.02	0.02	144	268

BEAR RIVER BASIN

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

LOCATION.--Lat 42°07'36", long 110°58'21", in NW¹/₄ SE¹/₄ NE¹/₄ sec. 28, T. 25 N., R. 119 W., Lincoln County, Hydrologic Unit 16010102, on left bank 1.1 mi upstream from Wyman Dam, 2.8 mi northwest of Cokeville, and 3.8 mi downstream from Smiths Fork.

DRAINAGE AREA.--2,447 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1954 to current year.

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, 2,350 ft³/s, June 15, gage height, 6.12 ft; minimum discharge, 66 ft³/s, Mar. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	129	e120	e120	e158	e173	434	391	826	1040	497	204
2	97	137	e110	e140	e155	e162	435	390	980	1050	449	292
3	100	140	e128	e155	e152	e154	423	388	1260	1080	425	450
4	106	110	e130	e170	e158	e154	429	338	1500	1260	420	446
5	121	137	e135	e160	e168	e151	448	367	1600	1370	413	431
6	130	145	e139	e170	e168	e150	472	415	1710	1420	382	389
7	123	156	e140	e155	e166	e160	480	395	1820	1430	360	304
8	100	160	e132	e150	e170	e167	490	367	1840	1360	346	241
9	103	154	e130	e162	e168	e170	468	359	1870	1340	334	214
10	101	155	e140	e170	e160	162	468	354	2000	1320	326	210
11	105	154	e132	e151	e165	151	442	387	2110	1320	320	206
12	106	171	e127	e138	e178	254	425	441	2130	1330	303	212
13	106	167	e120	e130	e172	295	424	420	2130	1340	293	211
14	105	144	e127	e140	e153	323	450	377	2190	1340	286	207
15	127	125	e141	e132	e160	336	434	341	2290	1390	277	198
16	128	154	e132	e131	e150	347	419	371	2300	1450	269	188
17	128	137	e128	e131	e135	359	409	418	2120	1470	261	171
18	139	142	e139	e128	e170	376	406	456	1970	1470	249	153
19	140	e136	e129	e129	e150	412	409	486	1810	1490	237	155
20	134	e140	e120	e140	e130	602	385	511	1730	1470	224	151
21	133	e130	e110	e122	e145	813	367	539	1680	1370	231	150
22	132	e130	e128	e119	e152	898	356	570	1530	1260	238	152
23	129	e120	e139	e113	e161	851	352	616	1420	1200	242	161
24	127	e125	e123	e113	e166	752	355	598	1300	1110	263	158
25	123	e130	e122	110	e150	671	355	560	1230	1090	262	161
26	123	e119	e122	120	e156	599	346	574	1220	959	254	187
27	124	e110	e124	131	e165	553	344	567	1210	834	243	215
28	127	e112	e120	134	e172	522	368	574	1130	750	234	235
29	139	e118	e120	e130	---	486	407	583	1060	683	225	257
30	125	e121	e110	e150	---	461	424	602	1010	601	204	234
31	121	---	e130	e170	---	443	---	680	---	548	200	---
TOTAL	3699	4108	3947	4314	4453	12107	12424	14435	48976	37145	9267	6943
MEAN	119	137	127	139	159	391	414	466	1633	1198	299	231
MAX	140	171	141	170	178	898	490	680	2300	1490	497	450
MIN	97	110	110	110	130	150	344	338	826	548	200	150
AC-FT	7340	8150	7830	8560	8830	24010	24640	28630	97140	73680	18380	13770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1995, BY WATER YEAR (WY)

	MEAN	218	228	198	180	206	371	692	1003	1248	594	241	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	1983
MIN	55.6	83.1	96.5	86.2	82.4	116	69.2	115	96.7	71.4	80.1	55.9	
(WY)	1978	1978	1978	1993	1993	1988	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1955 - 1995
ANNUAL TOTAL	69588	161818	--
ANNUAL MEAN	191	443	449
HIGHEST ANNUAL MEAN	--	--	1049
LOWEST ANNUAL MEAN	--	--	112
HIGHEST DAILY MEAN	545	2300	5400
LOWEST DAILY MEAN	78	97	31
ANNUAL SEVEN-DAY MINIMUM	81	104	36
ANNUAL RUNOFF (AC-FT)	138000	321000	324900
10 PERCENT EXCEEDS	326	1320	1120
50 PERCENT EXCEEDS	148	214	223
90 PERCENT EXCEEDS	97	122	112

e Estimated.

10038000 BEAR RIVER BELOW SMITHS FOR, NEAR COKEVILLE, WY--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)
NOV 15...	1130	88	620	8.6	1.0	-3.0	612
MAR 20...	1430	1060	509	8.2	5.0	13.0	605
JUN 27...	1410	2130	535	8.3	17.0	20.0	615
SEP 07...	1355	300	408	8.4	19.0	25.0	615

DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
NOV 15...	13.0	114	K6	<0.01	0.06	<0.02	<0.01
MAR 20...	10.1	100	K9	0.02	0.09	0.11	0.06
JUN 27...	7.7	99	K130	0.02	0.06	0.02	<0.01
SEP 07...	8.0	108	160	<0.01	<0.05	<0.02	<0.01

K-Results based on colony count outside the acceptable range (non-ideal colony count).

LOCATION.--Lat 42°12'40", long 111°03'11", in NE¹/₄ NE¹/₄ NE¹/₄ sec. 15, T. 14 S., R. 46 E., Bear Lake County, Idaho, Hydrologic Unit 16010102, on left bank 0.2 mi west of Wyoming-Idaho State line, 0.5 mi west of Border, and 2.1 mi upstream from Thomas Fork.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,450 ft³/s, June 16, gage height, 7.15 ft; minimum daily discharge, 93 ft³/s, Oct. 12.

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1938 - 1995	
ANNUAL TOTAL	64801		167462		--	
ANNUAL MEAN	178		459		435	
HIGHEST ANNUAL MEAN	--		--		1068	1983
LOWEST ANNUAL MEAN	--		--		103	1977
HIGHEST DAILY MEAN	438	May 17	2430	Jun 16	4840	Jun 8 1983
LOWEST DAILY MEAN	62	Sep 2	93	Oct 12	25	Apr 29 1977
ANNUAL SEVEN-DAY MINIMUM	71	Aug 29	100	Oct 8	29	Apr 28 1977
ANNUAL RUNOFF (AC-FT)	128500		332200		315300	
10 PERCENT EXCEEDS	301		1410		1120	
50 PERCENT EXCEEDS	142		201		222	
90 PERCENT EXCEEDS	81		120		110	

e Estimated.

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

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

DRAINAGE AREA.--486 mi².

WATER-DISCHARGE RECORDS

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	223	262	e230	302	269	329	582	5930	2680	675	409
2	213	230	273	e230	338	264	340	595	6040	2620	647	407
3	242	226	280	e220	324	285	330	667	6640	3210	625	402
4	226	225	311	e220	317	288	344	730	6530	2790	611	410
5	249	245	328	e240	314	299	384	790	7880	2470	601	422
6	306	255	328	e260	308	298	426	925	8230	2490	581	401
7	273	272	323	269	303	291	498	958	4490	2550	568	402
8	252	266	311	287	296	293	505	1050	3730	2480	614	432
9	241	260	308	e290	285	299	462	1220	3550	2320	582	404
10	230	277	e290	318	279	310	432	1410	3100	2170	545	388
11	225	260	e300	323	e270	377	411	1660	3630	2170	547	381
12	223	269	308	322	e260	434	418	1750	4920	1940	522	374
13	218	265	309	326	e270	411	423	1520	6170	1880	501	368
14	221	246	300	333	e280	399	537	1430	6720	1610	484	362
15	290	231	292	340	e280	408	485	2050	6520	1450	470	350
16	280	249	302	336	e290	419	463	3000	5510	1360	463	344
17	265	251	315	329	e295	399	450	3290	e5050	1270	493	341
18	266	e230	321	325	e300	397	455	3390	e4240	1190	493	341
19	257	e220	317	324	298	418	466	3410	3940	1180	469	353
20	247	243	e300	318	309	385	466	3780	3530	1210	457	396
21	241	246	e290	e250	314	416	475	4100	3710	1080	448	362
22	240	e220	e280	e250	306	400	506	4060	3240	1070	454	342
23	230	e230	e290	e250	300	375	528	3380	3120	998	486	339
24	224	235	303	e280	294	391	532	3470	3130	929	528	329
25	221	247	310	302	290	373	568	3440	3450	908	517	324
26	219	248	308	298	293	356	537	3250	3660	840	528	324
27	227	245	306	298	289	357	571	2840	3680	801	474	332
28	238	239	302	288	279	349	699	2960	3390	772	457	326
29	225	236	300	e270	---	335	656	3430	2980	747	443	324
30	201	252	e290	274	---	333	636	4310	2790	726	429	342
31	210	---	e260	285	---	342	---	5390	---	699	420	---
TOTAL	7382	7341	9317	8885	8283	10970	14332	74837	139500	50610	16132	11031
MEAN	238	245	301	287	296	354	478	2414	4650	1633	520	368
MAX	306	277	328	340	338	434	699	5390	8230	3210	675	432
MIN	182	220	260	220	260	264	329	582	2790	699	420	324
AC-FT	14640	14560	18480	17620	16430	21760	28430	148400	276700	100400	32000	21880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	342	341	336	317	325	344	742	2727	2739	788	392	320
MAX	679	607	527	383	429	506	1509	3947	5726	1633	660	523
(WY)	1984	1984	1984	1985	1986	1986	1990	1993	1986	1995	1986	1986
MIN	185	213	247	275	267	279	424	1818	827	331	202	168
(WY)	1989	1988	1988	1992	1989	1988	1993	1987	1992	1988	1988	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1984 - 1995
ANNUAL TOTAL	220648	358620	--
ANNUAL MEAN	605	983	811
HIGHEST ANNUAL MEAN	--	--	1151
LOWEST ANNUAL MEAN	--	--	526
HIGHEST DAILY MEAN	5590	8230	9350
LOWEST DAILY MEAN	161	182	161
ANNUAL SEVEN-DAY MINIMUM	163	220	163
INSTANTANEOUS PEAK FLOW	--	11500	11500
INSTANTANEOUS PEAK STAGE	--	9.30	9.41
INSTANTANEOUS LOW FLOW	--	180	160
ANNUAL RUNOFF (AC-FT)	437700	711300	587300
ANNUAL RUNOFF (CFSM)	1.24	2.02	1.67
ANNUAL RUNOFF (INCHES)	16.89	27.45	22.66
10 PERCENT EXCEEDS	1640	3270	2190
50 PERCENT EXCEEDS	302	353	369
90 PERCENT EXCEEDS	182	241	252

e Estimate.

SNAKE RIVER MAIN STEM

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June to September 1994, June to September 1995 (discontinued)..

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 19.9°C Aug. 22.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

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 (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	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												
05...	1740	269	342	8.2	4.0	11.0	--	--	586	71	22	3.9
NOV												
03...	1120	217	304	7.5	-7.0	2.0	11.1	104	591	62	19	3.4
DEC												
07...	1240	343	265	7.2	-7.0	1.5	11.6	106	595	52	16	2.8
JAN												
11...	1110	321	265	7.2	0.5	2.5	10.7	102	588	52	16	2.8
FEB												
16...	1235	311	274	7.4	1.0	2.5	11.4	108	595	52	16	2.8
MAR												
16...	1050	421	257	7.9	4.5	3.5	10.9	105	599	54	17	2.9
APR												
12...	1320	422	258	7.8	9.5	6.0	10.6	109	597	55	17	3.1
MAY												
03...	1130	667	220	8.1	6.0	6.0	10.5	109	593	56	17	3.2
24...	1330	3200	108	8.0	11.0	6.0	10.2	105	595	--	--	--
JUN												
14...	1910	6800	90	8.2	21.0	10.5	9.1	106	592	32	10	1.6
28...	0915	3360	96	7.8	12.5	6.0	9.7	100	597	31	9.6	1.7
JUL												
27...	1300	821	189	8.0	22.0	15.0	9.4	119	599	48	15	2.6
AUG												
16...	1500	468	237	8.0	28.0	17.5	9.1	123	592	55	17	3.1
SEP												
07...	1200	399	249	7.8	16.0	13.5	8.7	106	599	55	17	3.1

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WAT.DIS FET FIELD HCO3 (MG/L)	CAR- BONATE WAT.DIS FET FIELD CO3 (MG/L)	ALKA- LITY WAT DIS TOT FET 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)
OCT											
05...	40	53	5.0	100	0	85	39	22	2.3	36	216
NOV											
03...	37	54	4.9	95	0	78	32	20	2.6	38	219
DEC											
07...	35	57	4.5	82	0	67	27	19	2.7	37	188
JAN											
11...	35	57	4.8	79	0	65	26	19	2.7	39	183
FEB											
16...	33	55	5.4	85	0	70	27	19	2.7	39	193
MAR											
16...	30	52	4.3	84	0	69	23	17	2.3	34	175
APR											
12...	29	51	4.1	84	0	69	24	16	2.1	32	173
MAY											
03...	23	46	3.1	81	0	66	18	12	1.7	26	149
24...	--	--	1.4	48	0	40	6.5	4.0	0.7	--	75
JUN											
14...	4.7	24	1.0	44	0	36	3.8	2.2	0.5	11	64
28...	6.7	31	1.3	41	0	33	6.0	3.3	0.5	14	68
JUL											
27...	18	43	2.7	66	0	54	16	9.5	1.5	27	124
AUG											
16...	23	46	3.8	75	0	62	22	13	1.8	31	146
SEP											
07...	26	49	3.5	80	0	65	26	14	1.9	33	171

SNAKE RIVER MAIN STEM

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, SUM OF CONSTITUENTS, 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)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (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											
05...	221	0.29	157	<0.01	<0.05	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
NOV											
03...	204	0.30	128	<0.01	<0.05	0.02	<0.2	<0.2	<0.01	<0.01	<0.01
DEC											
07...	184	0.26	174	<0.01	<0.05	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
JAN											
11...	185	0.25	159	0.01	0.07	0.02	<0.2	<0.2	0.03	<0.01	0.01
FEB											
16...	187	0.26	162	<0.01	0.05	0.02	<0.2	<0.2	<0.01	0.01	<0.01
MAR											
16...	172	0.24	199	<0.01	<0.05	0.02	<0.2	<0.2	<0.01	<0.01	<0.01
APR											
12...	169	0.24	197	<0.01	0.05	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
MAY											
03...	144	0.20	268	<0.01	<0.05	0.02	<0.2	<0.2	0.02	<0.01	<0.01
24...	--	--	--	<0.01	<0.05	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
JUN											
14...	57	0.09	1170	<0.01	0.06	<0.02	0.2	<0.2	0.07	0.04	0.02
28...	64	0.09	617	0.01	0.07	0.07	<0.2	0.2	0.04	0.02	<0.01
JUL											
27...	125	0.17	275	<0.01	<0.05	0.02	<0.2	<0.2	<0.01	0.03	<0.01
AUG											
16...	152	0.20	184	<0.01	<0.05	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
SEP											
07...	164	0.23	184	<0.01	<0.05	<0.02	<0.2	<0.2	0.01	<0.01	<0.01

DATE	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL	TRITIUM TOTAL (PCI/L)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT											
05...	21	3	-132	-17.18	62	4.5	1.6	0.2	2	1.4	73
NOV											
03...	14	3	--	--	--	--	1.1	0.2	3	1.8	47
DEC											
07...	14	3	--	--	--	--	1.2	0.2	20	18	51
JAN											
11...	14	3	-129	-16.57	65	5.1	1.1	0.3	5	4.3	83
FEB											
16...	13	3	--	--	--	--	1.1	0.2	3	2.5	62
MAR											
16...	21	3	--	--	--	--	1.4	0.3	4	4.6	90
APR											
12...	25	4	-131	-17.02	58	4.5	1.6	0.2	1	1.1	86
MAY											
03...	38	4	--	--	--	--	2.0	0.1	4	7.2	90
24...	<3	<1	--	--	--	--	3.0	0.3	30	259	65
JUN											
14...	73	10	--	--	--	--	2.8	38	925	17000	69
28...	60	6	-136	-18.11	44	3.2	2.2	0.7	92	835	77
JUL											
27...	15	4	--	--	--	--	1.4	0.2	5	11	58
AUG											
16...	12	3	--	--	--	--	1.4	0.2	2	2.5	100
SEP											
07...	16	3	--	--	--	--	1.1	0.3	3	3.2	79

SNAKE RIVER MAIN STEM

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	11.8	6.9	19.0	11.8	17.3	11.7
2	---	---	11.4	7.5	19.3	12.0	18.6	12.9
3	---	---	9.8	7.1	19.6	12.6	19.0	14.3
4	---	---	10.1	7.1	18.5	13.4	18.0	15.0
5	---	---	13.1	6.9	19.4	13.2	18.6	13.2
6	---	---	13.1	8.0	18.8	13.1	17.3	12.2
7	---	---	14.7	8.5	19.7	13.5	15.6	12.0
8	---	---	14.8	8.8	17.7	14.0	15.6	11.7
9	---	---	15.0	9.5	18.3	10.6	15.9	10.3
10	---	---	14.5	10.1	18.3	13.4	15.1	10.7
11	---	---	14.8	10.4	19.7	13.8	15.6	10.4
12	---	---	---	---	19.0	12.5	16.4	10.6
13	---	---	---	---	17.5	12.6	17.0	10.7
14	---	---	---	---	18.5	12.2	17.3	12.2
15	---	---	---	---	18.8	11.7	16.7	10.9
16	---	---	---	---	19.7	12.9	16.9	11.4
17	---	---	---	---	17.4	14.7	---	---
18	---	---	---	---	17.5	12.8	---	---
19	---	---	---	---	18.0	10.6	---	---
20	---	---	---	---	19.0	11.4	---	---
21	---	---	---	---	17.1	12.9	---	---
22	---	---	---	---	19.9	12.8	---	---
23	---	---	---	---	17.9	15.7	---	---
24	---	---	---	---	16.5	14.5	---	---
25	---	---	---	---	17.2	13.5	---	---
26	---	---	---	---	18.3	12.5	---	---
27	---	---	---	---	19.1	12.5	---	---
28	---	---	19.4	12.3	19.1	12.6	---	---
29	12.2	5.7	19.3	13.8	18.6	13.1	---	---
30	12.2	6.9	18.1	13.5	17.5	11.4	---	---
31	---	---	18.3	11.2	18.0	11.2	---	---
MONTH	---	---	---	---	19.9	10.6	---	---

13010500 JACKSON LAKE NEAR MORAN, WY

LOCATION.--Lat 43°51'33", long 110°35'23", in SE¹/₄ SW¹/₄ sec.18, T.45 N., R.114 W., Teton County, Grand Teton National Park, Hydrologic Unit 17040101, at Jackson Lake Dam on Snake River, 4.3 mi west of Moran, and at mile 988.9.

DRAINAGE AREA.--807 mi².

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

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

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 859,530 acre-ft, July 11, 1965, elevation, 6,769.49 ft; no usable contents for several days during period August to October 1919.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 854,200 acre-ft, July 12, elevation, 6,769.28 ft; minimum, 352,300 acre-ft, Oct. 1, elevation, 6,748.16 ft.

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

6,740	182,500
6,750	392,900
6,760	624,400
6,770	862,600

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	352300	359600	364800	---	392000	401800	422700	455800	665800	832500	831400	737100
2	353000	359600	365000	---	392500	402100	422900	457100	674600	835800	828900	734200
3	352600	359600	365900	---	392700	404100	423200	459000	685500	842600	826400	731000
4	352300	359600	367900	---	393100	404500	423400	460600	694600	846000	823600	728200
5	353200	360000	368600	---	393100	405900	424300	464000	706600	846200	820800	724800
6	353900	360900	369900	---	393600	405900	425400	466300	720600	847500	818000	721600
7	354300	361100	370100	378700	393800	406300	426300	469000	724300	850000	815200	718600
8	354300	361300	370300	379600	394000	406500	426800	471600	727200	851300	812900	715900
9	354500	361500	370500	380300	394200	406800	428600	475200	728500	852400	810200	712200
10	354500	361800	370500	380700	394500	407000	429000	478900	727500	853600	807400	708800
11	354700	361800	370500	381600	394700	408800	430200	484200	728000	853600	804400	705600
12	354700	362000	370800	382500	394700	409900	430800	489500	732700	854200	801100	702200
13	355000	362200	371200	383600	395600	410800	431500	493400	742800	852600	797800	699000
14	355200	362600	371600	384500	396200	411700	432200	497300	754500	849500	794300	695500
15	356500	362600	371600	384900	396500	412100	433300	503300	766000	846700	791000	692100
16	357400	362800	372700	385200	396700	413000	433800	512100	774400	845400	786700	689000
17	357600	362800	373800	386000	398300	413200	434700	521900	782200	844900	785200	685300
18	357800	362800	373800	386000	398300	414100	435800	531900	787700	844700	781000	682600
19	358000	362800	374100	386300	398500	415500	436500	541700	792800	845400	777700	679900
20	358000	362800	374100	386500	399200	416200	437400	552000	795000	848000	774200	676800
21	358000	363100	374100	386500	399600	417300	438300	563800	797800	848800	770900	673600
22	358000	363100	374100	386500	399600	418200	439400	575800	799800	848000	767400	670200
23	358200	363100	374300	386500	399600	419500	440100	585300	801300	847500	765500	667000
24	358200	363100	374500	386500	400100	420000	441700	594500	802100	846200	763000	663900
25	358500	363300	375400	387100	400500	420400	443300	603800	804600	845400	760500	661000
26	358700	363500	375600	387400	400700	420400	444400	612900	809600	843400	757200	658100
27	358700	363500	375800	388000	401400	420400	446000	620100	815200	841900	754000	655400
28	358700	363500	375800	388200	401600	420400	449900	626800	821500	840400	750800	652500
29	358900	364000	376300	---	---	420700	452600	634900	825600	838800	746800	649600
30	358900	364200	376300	---	---	420700	454200	645000	829200	836500	743800	646500
31	358900	---	e376600	e391000	---	422000	---	654900	---	834200	740400	---
MAX	358900	364200	376600	---	401600	422000	454200	654900	829200	854200	831400	737100
MIN	352300	359600	364800	---	392000	401800	422700	455800	665800	832500	740400	646500

CAL YR 1994 MAX 851100 MIN 352300

e Estimate.

SNAKE RIVER MAIN STEM

13011000 SNAKE RIVER NEAR MORAN, WY

LOCATION.--Lat 43°51'31", long 110°35'09", in SW¹/₄ SE¹/₄ sec.18, T.45 N., R.114 W., Teton County, Grand Teton National Park, Hydrologic Unit 17040101, on left bank 1,000 ft downstream from Jackson Lake Dam, 4.1 mi west of Moran, and at mile 988.7.

DRAINAGE AREA.--807 mi². Mean elevation, 8,040 ft.

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

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

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

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

COOPERATION.--Gage readings for current reporting purposes provided by U.S. Bureau of Reclamation.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	779	288	284	e280	e280	295	284	315	3490	3000	2570	2360
2	510	288	284	e280	288	295	286	318	4240	3000	2570	2360
3	457	294	284	e285	290	295	288	319	4520	3010	2580	2350
4	412	295	284	e285	291	295	288	323	4550	3420	2590	2350
5	357	295	284	e285	291	295	288	327	4590	4000	2590	2360
6	281	295	284	e290	291	293	292	331	4830	3900	2590	2340
7	281	292	284	e290	291	291	295	330	5030	3810	2590	2340
8	281	288	284	e290	291	291	295	329	5040	4010	2580	2330
9	281	288	284	e295	293	291	295	330	5050	4300	2590	2330
10	281	288	284	296	295	291	295	330	5050	4310	2590	2320
11	281	288	286	284	295	291	295	330	5050	4610	2590	2320
12	281	288	288	284	295	291	295	328	4630	4790	2580	2310
13	283	287	288	284	295	291	296	326	4030	4830	2580	2300
14	287	287	288	284	295	291	299	330	4030	4890	2570	2300
15	291	288	288	284	295	291	299	330	4050	4600	2560	2290
16	291	285	288	285	295	291	299	330	4070	3680	2560	2290
17	287	284	288	288	295	291	299	330	4110	3020	2560	2290
18	284	284	290	288	295	291	299	330	4120	2660	2560	2280
19	284	284	291	289	295	291	300	333	4140	2580	2560	2110
20	284	284	291	291	295	288	303	334	4370	2580	2550	2110
21	282	284	293	291	295	284	303	334	4510	2580	2520	2100
22	281	284	295	291	295	284	303	335	4510	2580	2490	2100
23	281	284	295	293	295	282	305	338	4510	2580	2490	2100
24	281	284	295	295	295	281	306	338	4510	2580	2490	2090
25	281	282	295	290	295	281	306	452	4520	2580	2490	2080
26	282	281	295	284	295	281	305	825	4130	2580	2480	2080
27	287	282	e290	284	295	281	304	1030	3500	2570	2480	2070
28	284	284	e285	e270	295	283	311	1030	3240	2570	2480	2070
29	284	284	e285	e265	---	284	314	1030	3000	2570	2470	2060
30	284	284	e280	e270	---	284	314	1520	3000	2570	2460	1970
31	286	---	e280	e275	---	284	---	2620	---	2570	2400	---
TOTAL	9886	8603	8914	8845	8211	8948	8961	16405	128420	103330	78760	66760
MEAN	319	287	288	285	293	289	299	529	4281	3333	2541	2225
MAX	779	295	295	296	295	295	314	2620	5050	4890	2590	2360
MIN	281	281	280	265	280	281	284	315	3000	2570	2400	1970
AC-FT	19610	17060	17680	17540	16290	17750	17770	32540	254700	205000	156200	132400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1995, BY WATER YEAR (WY)

MEAN	335	285	324	294	354	442	693	1393	3387	4010	3551	1953
MAX	1605	3009	4280	1362	2489	3053	3828	5658	8594	8182	7370	5265
(WY)	1913	1957	1957	1912	1961	1951	1974	1971	1918	1921	1918	1984
MIN	5.06	3.00	2.00	2.00	2.00	2.00	2.53	6.48	51.7	983	987	146
(WY)	1948	1949	1945	1945	1945	1945	1945	1945	1932	1989	1919	1914

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1904 - 1995
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WATER YEAR			WATER YEAR			WATER YEARS 1961 - 1981		
ANNUAL TOTAL	471048		456043					
ANNUAL MEAN	1291		1249			1425		
HIGHEST ANNUAL MEAN	--		--			2154		1952
LOWEST ANNUAL MEAN	--		--			687		1989
HIGHEST DAILY MEAN	6000	Aug 9	5050	Jun 9		14700		Jun 13 1918
LOWEST DAILY MEAN	280	Dec 30	265	Jan 29		.30		Oct 28 1969
ANNUAL SEVEN-DAY MINIMUM	281	Oct 6	275	Jan 26		1.4		Oct 24 1969
INSTANTANEOUS PEAK FLOW	--		5060	Jul 13		15100		Jun 12 1918
INSTANTANEOUS PEAK STAGE	--		7.29	Jul 13		10.74		Jun 25 1981
ANNUAL RUNOFF (AC-FT)	934300		904600			1032000		
10 PERCENT EXCEEDS	3630		3730			4320		
50 PERCENT EXCEEDS	400		295			476		
90 PERCENT EXCEEDS	284		284			17		

e Estimate.

13011500 PACIFIC CREEK AT MORAN, WY

LOCATION.--Lat 43°51'04", long 110°30'59", in SW¹/₄ NW¹/₄ sec.23, T.45 N., R.114 W., Teton County, Grand Teton National Park, Hydrologic Unit 17040101, on left bank 40 ft upstream from bridge on U.S. Highway 287, at Moran, and at mile 0.5.

DRAINAGE AREA.--169 mi². Mean elevation, 8,160 ft.

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

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. No diversion or regulation. Peak discharges greater than a base discharge of 1,300 ft³/s are available.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	39	e38	e34	e80	e68	142	211	2140	1120	177	70
2	43	37	e37	e31	e76	e72	143	221	1940	1050	169	70
3	45	e36	e35	e27	e72	e74	143	234	2210	1330	159	68
4	44	e35	e36	e26	e75	e72	145	253	2290	1180	152	69
5	44	35	e36	e28	e77	e70	151	288	2580	974	146	74
6	51	36	e35	e31	e73	e67	157	329	2870	937	137	70
7	50	39	e34	e35	e74	e65	169	350	1880	937	132	80
8	46	38	e33	e37	e73	e70	170	378	1510	974	153	92
9	44	e36	e32	e40	e71	e75	162	407	1440	937	145	94
10	43	37	e30	e42	e69	e78	155	457	1260	880	132	84
11	42	37	e34	e39	e68	e81	157	534	1440	852	152	82
12	42	39	e36	e38	e70	e80	155	590	2000	799	135	86
13	41	e38	e38	e37	e72	e78	159	574	2350	773	119	86
14	44	e35	e37	e39	e70	e77	174	565	2580	629	113	81
15	64	e32	e36	e38	e67	e83	173	725	2600	530	107	77
16	58	e33	e38	e37	e70	e82	174	1020	2410	468	101	76
17	54	e33	e40	e35	e74	e83	173	1150	2330	433	99	75
18	52	e32	e39	e38	e72	e84	170	1290	2170	395	99	77
19	51	e32	e40	e37	e74	e82	172	1500	2050	373	96	85
20	49	e33	e39	e35	e78	e80	173	1620	1940	388	89	112
21	47	e30	e38	e34	e74	e85	173	1710	2020	350	86	105
22	46	e29	e37	e36	e70	e94	173	1620	1790	363	88	105
23	43	e32	e40	e35	e68	e105	168	1250	1570	322	91	106
24	41	e34	e42	e37	e66	114	166	1310	1500	289	105	104
25	40	e35	e43	e45	e70	115	175	1240	1580	270	102	103
26	39	e36	e42	e55	e73	119	172	1110	1640	250	90	100
27	41	e34	e43	e53	e75	126	183	1010	1680	232	80	105
28	44	e35	e44	e51	e71	130	211	1050	1550	218	75	100
29	43	e34	e42	e49	---	141	213	1280	1350	206	71	107
30	37	e36	e39	e59	---	146	216	1620	1300	195	74	116
31	36	---	e37	e69	---	145	---	2030	---	185	71	---
TOTAL	1402	1047	1170	1227	2022	2841	5067	27926	57970	18839	3545	2659
MEAN	45.2	34.9	37.7	39.6	72.2	91.6	169	901	1932	608	114	88.6
MAX	64	39	44	69	80	146	216	2030	2870	1330	177	116
MIN	36	29	30	26	66	65	142	211	1260	185	71	68
AC-FT	2780	2080	2320	2430	4010	5640	10050	55390	115000	37370	7030	5270
CFSM	.27	.21	.22	.23	.43	.54	1.00	5.33	11.4	3.60	.68	.52
IN.	.31	.23	.26	.27	.45	.63	1.12	6.15	12.76	4.15	.78	.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1917	65.1	142	1973	34.6	1988
1918	54.9	105	1973	32.6	1953
1919	48.9	93.5	1984	29.7	1955
1920	44.3	70.7	1984	25.3	1979
1921	45.1	72.2	1995	26.6	1955
1922	51.9	94.5	1972	34.6	1963
1923	153	418	1946	56.2	1975
1924	927	1606	1954	345	1975
1925	1217	2383	1974	238	1994
1926	341	1527	1982	70.0	1994
1927	98.5	191	1982	43.0	1988
1928	71.2	127	1972	37.2	1994

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1917 - 1995
ANNUAL TOTAL	46449	125715	---
ANNUAL MEAN	127	344	260
HIGHEST ANNUAL MEAN	---	---	403
LOWEST ANNUAL MEAN	---	---	132
HIGHEST DAILY MEAN	1430	2870	3870
LOWEST DAILY MEAN	29	26	19
ANNUAL SEVEN-DAY MINIMUM	32	30	23
INSTANTANEOUS PEAK FLOW	---	3400	5350a
INSTANTANEOUS PEAK STAGE	---	6.45	6.60b
ANNUAL RUNOFF (AC-FT)	92130	249400	188300
ANNUAL RUNOFF (CFSM)	.75	2.04	1.54
ANNUAL RUNOFF (INCHES)	10.22	27.67	20.90
10 PERCENT EXCEEDS	372	1300	900
50 PERCENT EXCEEDS	44	81	66
90 PERCENT EXCEEDS	35	36	38

a Gage height, 6.33 ft.

b Extrapolated from gage height record.

e Estimate.

13011900 BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WY

LOCATION.--Lat 43°50'14", long 110°26'21", in SE¹/₄ NE¹/₄ sec.29, T.45 N., R.113 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on right bank below bridge on U.S. Highway 26/287, about 2 mi upstream from Lava Creek, 3.5 mi east of Moran, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--323 mi².

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

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

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

REMARKS.--Records good except for estimated daily discharges, which are pogr. Station equipment includes satellite telemetry. Peak discharges greater than a base discharge of 3,100 ft³/s are available.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	156	e130	e84	e135	e88	e102	168	1710	2190	846	304
2	156	143	e125	e82	e130	e94	e105	170	1660	2200	804	302
3	158	e135	e115	e78	e114	e100	112	178	2120	2740	775	299
4	148	e130	e118	e80	e118	e98	120	190	2100	2530	741	297
5	154	e135	e120	e86	e120	e96	147	207	2290	2100	704	306
6	182	e145	e115	e94	e114	e93	159	254	3110	2160	680	292
7	177	e150	e110	e100	e118	e88	171	250	1990	2550	660	286
8	161	e140	e105	e104	e116	e90	169	254	1520	3080	678	321
9	153	e130	e100	e108	e114	e94	146	266	1380	3110	629	297
10	147	e135	e95	e112	e108	e97	125	302	1180	3080	593	284
11	145	e140	e102	e106	e104	e100	122	356	1220	3300	659	280
12	146	e140	e105	e104	e107	e102	e126	422	1730	3270	593	274
13	141	e130	e108	e105	e110	e96	138	383	2410	3050	548	268
14	146	e120	e105	e108	e105	e95	168	351	2920	2530	516	262
15	182	e115	e102	e105	e102	e98	150	424	3330	2090	494	257
16	171	e118	e110	e102	e108	e100	143	633	3170	1960	477	254
17	163	e120	e120	e94	e115	e106	143	752	2880	1880	466	253
18	172	e115	e118	e104	e112	e104	140	816	2500	1850	462	251
19	169	e110	e115	e98	e110	e102	145	832	2220	1870	435	265
20	159	e115	e112	e94	e112	e98	152	899	2070	1870	418	299
21	156	e110	e110	e88	e107	e96	148	990	2070	1740	406	274
22	148	e105	e106	e94	e103	e98	150	1060	2110	1710	399	262
23	138	e110	e110	e90	e100	e100	149	932	1840	1520	389	258
24	138	e120	e118	e95	e98	e104	148	838	1830	1370	447	251
25	135	e122	e125	e105	e100	e108	162	808	2050	1310	415	249
26	134	e125	e120	e115	e103	e106	151	788	2350	1230	379	244
27	155	e120	e122	e110	e106	e104	156	760	2650	1160	355	251
28	157	e125	e125	e102	e97	e102	187	756	2750	1150	344	244
29	139	e120	e110	e96	---	e99	185	855	2360	1070	327	249
30	124	e125	e100	e108	---	e96	179	1090	2160	1050	317	267
31	124	---	e88	e118	---	e100	---	1430	---	920	310	---
TOTAL	4721	3804	3464	3069	3086	3052	4398	18414	65680	63640	16266	8200
MEAN	152	127	112	99.0	110	98.5	147	594	2189	2053	525	273
MAX	182	156	130	118	135	108	187	1430	3330	3300	846	321
MIN	124	105	88	78	97	88	102	168	1180	920	310	244
AC-FT	9360	7550	6870	6090	6120	6050	8720	36520	130300	126200	32260	16260
CFSM	.47	.39	.35	.31	.34	.30	.45	1.84	6.78	6.36	1.62	.85
IN.	.54	.44	.40	.35	.36	.35	.51	2.12	7.56	7.33	1.87	.94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	213	169	139	121	117	126	218	993	2237	1331	417	257																		
MAX	304	229	180	145	191	175	367	1768	4113	3056	946	428																		
(WY)	1973	1984	1985	1994	1984	1984	1987	1969	1974	1975	1982	1982																		
MIN	128	122	99.5	87.3	93.1	98.5	124	397	1049	230	163	135																		
(WY)	1988	1988	1980	1989	1969	1995	1967	1975	1992	1977	1977	1994																		

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1966 - 1995
ANNUAL TOTAL	125626	197794	--
ANNUAL MEAN	344	542	529
HIGHEST ANNUAL MEAN	--	--	751
LOWEST ANNUAL MEAN	--	--	286
HIGHEST DAILY MEAN	2530	3330	5880
LOWEST DAILY MEAN	88	78	73
ANNUAL SEVEN-DAY MINIMUM	99	85	81
INSTANTANEOUS PEAK FLOW	--	3810	6540
INSTANTANEOUS PEAK STAGE	--	6.10	8.61
ANNUAL RUNOFF (AC-FT)	249200	392300	383300
ANNUAL RUNOFF (CFSM)	1.07	1.68	1.64
ANNUAL RUNOFF (INCHES)	14.47	22.78	22.26
10 PERCENT EXCEEDS	1050	1970	1620
50 PERCENT EXCEEDS	145	150	190
90 PERCENT EXCEEDS	108	100	111

e Estimate.

13012490 SPREAD CREEK AT DIVERSION DAM, NEAR MORAN, WY

LOCATION.--Lat 43°46'22", long 110°28'59", in NE¹/₄ SW¹/₄ sec.13, T.44 N., R.114 W., Teton County, Hydrologic Unit 17040101, Teton National Forest, on left bank 40 ft upstream from diversion dam, 0.25 miles south of Grand Teton National Park boundary, and 4.3 mi southwest of Moran Junction.

DRAINAGE AREA.--97.4 mi².

PERIOD OF RECORD.--June 1993 (discharge measurement only), May to July 1994, May to August 1995.

GAGE.--Water-stage recorder. Elevation of gage is 7,108.00 ft above sea level, by survey.

REMARKS.--No estimated daily discharges. Records poor. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 21 . . . 28.8
Apr. 20 . . . 21.1
Sept. 8 . . . 47.2

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	28	331	266	67	---
2	---	---	---	---	---	---	---	30	369	255	62	---
3	---	---	---	---	---	---	---	30	463	309	58	---
4	---	---	---	---	---	---	---	31	515	264	55	---
5	---	---	---	---	---	---	---	40	612	219	54	---
6	---	---	---	---	---	---	---	49	653	205	52	---
7	---	---	---	---	---	---	---	46	434	219	49	---
8	---	---	---	---	---	---	---	45	339	199	61	---
9	---	---	---	---	---	---	---	50	338	186	49	---
10	---	---	---	---	---	---	---	59	318	182	47	---
11	---	---	---	---	---	---	---	67	329	208	70	---
12	---	---	---	---	---	---	---	71	397	186	45	---
13	---	---	---	---	---	---	---	62	556	185	44	---
14	---	---	---	---	---	---	---	58	672	152	42	---
15	---	---	---	---	---	---	---	69	554	137	41	---
16	---	---	---	---	---	---	---	117	495	127	40	---
17	---	---	---	---	---	---	---	137	564	117	39	---
18	---	---	---	---	---	---	---	137	509	104	40	---
19	---	---	---	---	---	---	---	140	503	119	37	---
20	---	---	---	---	---	---	---	156	488	218	34	---
21	---	---	---	---	---	---	---	176	485	138	34	---
22	---	---	---	---	---	---	---	179	449	134	36	---
23	---	---	---	---	---	---	---	150	410	122	37	---
24	---	---	---	---	---	---	---	153	385	111	46	---
25	---	---	---	---	---	---	---	164	390	105	40	---
26	---	---	---	---	---	---	---	154	408	96	33	---
27	---	---	---	---	---	---	---	141	431	87	29	---
28	---	---	---	---	---	---	---	154	403	80	28	---
29	---	---	---	---	---	---	---	180	332	76	28	---
30	---	---	---	---	---	---	---	232	292	73	25	---
31	---	---	---	---	---	---	---	296	---	70	25	---
TOTAL	---	---	---	---	---	---	---	3401	13424	4949	1347	---
MEAN	---	---	---	---	---	---	---	110	447	160	43.5	---
MAX	---	---	---	---	---	---	---	296	672	309	70	---
MIN	---	---	---	---	---	---	---	28	292	70	25	---
AC-FT	---	---	---	---	---	---	---	6750	26630	9820	2670	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1994	1995	1994	1995	1994	1995
MEAN	---	---	---	---	131	235	160	43.5
MAX	---	---	---	---	152	447	160	43.5
(WY)	---	---	---	---	1994	1995	1995	1995
MIN	---	---	---	---	110	23.5	160	43.5
(WY)	---	---	---	---	1995	1994	1995	1995

SUMMARY STATISTICS
HIGHEST DAILY MEAN
LOWEST DAILY MEAN
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

FOR 1995 WATER YEAR*
672 Jun 14
25 Aug 30
938a Jun 5
7.16c Jul 20

WATER YEARS 1994 - 1995*
672 Jun 14 1995
1.6 Jul 10 1994
1040b May 21 1993
7.16c Jul 20 1995
404
74
13

* During period of operation.

a Gage height, 6.22 ft.

b Gage height, 6.52 ft.

c Backwater from dam; discharge, 390 ft³/s.

SNAKE RIVER MAIN STEM

13013650 SNAKE RIVER AT MOOSE, WY

LOCATION.--Lat 43°39'14", long 110°42'52", in NW¹/₄ NW¹/₄ NE¹/₄ sec.36, T.43 N., R.116 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on right bank at downstream side of bridge on Teton Park Road, 0.2 miles east of Grand Teton National Park Headquarters visitor Center at Moose, and 0.3 miles west of U.S. Highway 191.

DRAINAGE AREA.--Undetermined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April to September 1995.

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

REMARKS.--Estimated daily discharges: Apr. 6 and Aug. 14-22. Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	1080	8020	8010	4500	3430
2	---	---	---	---	---	---	---	1060	8490	8010	4410	3400
3	---	---	---	---	---	---	---	1090	9780	8450	4350	3390
4	---	---	---	---	---	---	---	1140	9780	8560	4330	3390
5	---	---	---	---	---	---	---	1210	10400	8530	4300	3390
6	---	---	---	---	---	---	980	1360	12000	8320	4230	3370
7	---	---	---	---	---	---	992	1400	9940	8260	4210	3370
8	---	---	---	---	---	---	995	1380	9400	8800	4240	3400
9	---	---	---	---	---	---	994	1420	9120	9160	4210	3350
10	---	---	---	---	---	---	990	1490	8710	9130	4140	3280
11	---	---	---	---	---	---	977	1640	8730	9470	4210	3270
12	---	---	---	---	---	---	964	1890	9360	9600	4140	3240
13	---	---	---	---	---	---	963	1750	9660	9650	4050	3220
14	---	---	---	---	---	---	973	1670	10200	9070	4010	3190
15	---	---	---	---	---	---	983	1860	10600	8530	3980	3160
16	---	---	---	---	---	---	994	2400	10200	7330	3970	3150
17	---	---	---	---	---	---	1010	2830	9880	6680	3960	3130
18	---	---	---	---	---	---	1010	3050	9440	6140	3950	3120
19	---	---	---	---	---	---	998	3050	9080	5970	3900	2990
20	---	---	---	---	---	---	1020	3360	8860	6170	3860	3050
21	---	---	---	---	---	---	1010	3570	8950	5950	3820	3010
22	---	---	---	---	---	---	1010	3640	9290	5960	3770	2940
23	---	---	---	---	---	---	1030	3430	8920	5700	3780	2910
24	---	---	---	---	---	---	1020	3240	8770	5480	3870	2900
25	---	---	---	---	---	---	1080	3180	9060	5360	3870	2870
26	---	---	---	---	---	---	1050	3340	9250	5230	3790	2860
27	---	---	---	---	---	---	1050	3590	8980	5060	3720	2870
28	---	---	---	---	---	---	1100	3530	8960	4980	3670	2860
29	---	---	---	---	---	---	1130	3790	8210	4880	3630	2860
30	---	---	---	---	---	---	1140	4620	8040	4850	3600	2900
31	---	---	---	---	---	---	---	6410	---	4670	3540	---
TOTAL	---	---	---	---	---	---	25463	78470	280080	221960	124010	94270
MEAN	---	---	---	---	---	---	1019	2531	9336	7160	4000	3142
MAX	---	---	---	---	---	---	1140	6410	12000	9650	4500	3430
MIN	---	---	---	---	---	---	963	1060	8020	4670	3540	2860
AC-FT	---	---	---	---	---	---	50510	155600	555500	440300	246000	187000

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

MEAN	---	---	---	---	---	---	2531	9336	7160	4000	3142
MAX	---	---	---	---	---	---	2531	9336	7160	4000	3142
(WY)	---	---	---	---	---	---	1995	1995	1995	1995	1995
MIN	---	---	---	---	---	---	2531	9336	7160	4000	3142
(WY)	---	---	---	---	---	---	1995	1995	1995	1995	1995

SUMMARY STATISTICS

HIGHEST DAILY MEAN
 LOWEST DAILY MEAN
 ANNUAL SEVEN-DAY MINIMUM
 INSTANTANEOUS PEAK FLOW
 INSTANTANEOUS PEAK STAGE
 INSTANTANEOUS LOW FLOW

FOR 1995 WATER YEAR*

12000 Jun 6
 963 Apr 13
 978 Apr 9
 12400 Jun 6
 13.46 Jun 6
 963 Apr 13

* During period of operation.

13013650 SNAKE RIVER AT MOOSE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years April to September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
APR											
13...	0945	965	228	7.9	5.0	9.0	602	11.0	110	97	29
MAY											
04...	0920	1130	222	8.1	6.5	5.0	603	10.9	112	98	29
25...	1110	3290	164	8.2	5.5	9.5	601	9.9	100	74	22
JUN											
15...	1210	10900	129	7.9	10.0	22.5	559	9.7	117	52	16
29...	1100	8400	122	7.9	9.5	18.0	609	9.5	104	50	15
JUL											
26...	1120	5360	138	8.2	13.5	27.0	602	8.5	104	54	16
AUG											
17...	1035	3960	157	7.9	15.5	21.5	601	8.4	108	57	17
SEP											
06...	1700	3380	164	8.4	17.5	17.0	608	8.9	117	60	18

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WAT.DIS FET FIELD HCO3 (MG/L) (29804)	CAR- BONATE WAT.DIS FET FIELD CO3 (MG/L) (29807)	ALKA- LINITY WAT DIS TOT FET FIELD MG/L AS CACO3 (00418)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
APR											
13...	6.0	9.1	0.4	2.1	120	0	96	103	12	4.1	0.4
MAY											
04...	6.2	8.7	0.4	2.0	120	0	97	104	10	3.8	0.5
25...	4.7	4.7	0.2	1.2	92	0	76	80	6.4	1.4	0.2
JUN											
15...	3.0	5.4	0.3	1.3	66	0	54	60	5.5	2.4	0.4
29...	3.0	5.3	0.3	1.3	62	0	51	53	5.9	2.5	0.3
JUL											
26...	3.3	6.6	0.4	1.4	67	0	55	57	6.8	3.0	0.4
AUG											
17...	3.5	8.0	0.5	1.7	73	0	60	62	7.7	3.9	0.6
SEP											
06...	3.7	8.4	0.5	1.5	72	1.4	62	65	9.4	4.6	0.6

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
APR										
13...	16	140	136	0.19	365	<0.01	0.05	<0.02	<0.20	<0.20
MAY										
04...	15	139	133	0.19	424	<0.01	<0.05	<0.02	<0.20	<0.20
25...	12	97	98	0.13	862	<0.01	<0.05	<0.02	<0.20	<0.20
JUN										
15...	12	85	79	0.12	2500	<0.01	<0.05	<0.02	0.50	<0.20
29...	13	82	77	0.11	1860	<0.01	<0.05	<0.02	<0.20	<0.20
JUL										
26...	14	85	84	0.12	1230	<0.01	<0.05	0.02	<0.20	<0.20
AUG										
17...	14	82	92	0.11	877	<0.01	<0.05	<0.02	<0.20	<0.20
SEP										
06...	14	101	97	0.14	922	<0.01	<0.05	<0.02	<0.20	<0.20

SNAKE RIVER MAIN STEM

13013650 SNAKE RIVER AT MOOSE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDEDED TOTAL (MG/L AS C) (00689)	SEDI- MENT, SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
APR										
13...	0.01	<0.01	<0.01	7	4	1.2	0.3	4	10	95
MAY										
04...	0.01	0.01	<0.01	12	4	1.6	0.3	2	6.1	100
25...	0.03	<0.01	0.02	44	3	3.0	0.8	59	524	84
JUN										
15...	0.23	0.04	0.02	69	8	2.7	2.9	504	14800	67
29...	0.06	0.01	0.01	33	4	2.0	0.6	79	1790	62
JUL										
26...	0.01	0.02	<0.01	14	2	1.4	0.3	15	217	60
AUG										
17...	<0.01	<0.01	<0.01	10	1	1.6	0.2	4	43	75
SEP										
06...	0.01	0.01	<0.01	9	1	1.4	0.2	2	18	100

13015000 GROS VENTRE RIVER AT ZENITH, WY

LOCATION.--Lat 43°33'00", long 110°47'00", in SW¹/₄ NW¹/₄ SW¹/₄ sec.34., T.42 N., R.116 W., Teton County, Hydrologic Unit 17040102, on left bank, 20 ft upstream from county bridge, 0.5 mi southwest of Jackson Hole Country Club, and 5.5 mi north of Jackson.

DRAINAGE AREA.--683 mi².

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

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Diversions of about 300 ft³/s for irrigation above station. No regulation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,400 ft³/s, June 7, 1991, gage height, 20.69 ft; maximum gage height, 21.86 ft, June 6, 1995; no flow on many days.

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

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,680 ft³/s, June 13; minimum daily, 15 ft³/s, May 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	48	50	1170	1410	565	136
2	---	---	---	---	---	---	54	22	1370	1430	499	126
3	---	---	---	---	---	---	66	18	1650	1560	453	124
4	---	---	---	---	---	---	82	17	1950	1810	430	126
5	---	---	---	---	---	---	128	16	2020	1520	412	126
6	---	---	---	---	---	---	189	19	2330	1220	392	124
7	---	---	---	---	---	---	247	21	1860	1400	364	122
8	---	---	---	---	---	---	261	18	998	1740	330	123
9	---	---	---	---	---	---	214	15	724	1810	347	121
10	---	---	---	---	---	28	161	17	591	1820	324	119
11	---	---	---	---	---	41	128	23	487	2070	311	113
12	---	---	---	---	---	81	113	51	520	2490	323	109
13	---	---	---	---	---	126	110	107	1120	2580	315	106
14	---	---	---	---	---	118	145	99	1800	2230	296	100
15	---	---	---	---	---	110	171	74	2320	1650	276	94
16	---	---	---	---	---	123	150	197	2560	1360	252	90
17	---	---	---	---	---	127	131	377	2240	1170	239	88
18	---	---	---	---	---	126	82	503	1840	1060	234	79
19	---	---	---	---	---	130	42	597	1370	1040	229	36
20	---	---	---	---	---	123	42	636	1130	1280	219	39
21	---	---	---	---	---	129	40	728	1050	1440	193	46
22	---	---	---	---	---	120	37	822	1180	1440	180	47
23	---	---	---	---	---	100	35	746	1170	1340	183	44
24	---	---	---	---	---	90	34	561	1070	1160	170	41
25	---	---	---	---	---	81	33	465	1090	1030	205	39
26	---	---	---	---	---	e65	41	410	1280	921	200	38
27	---	---	---	---	---	e54	33	412	1440	845	183	39
28	---	---	---	---	---	e48	38	433	1610	800	170	39
29	---	---	---	---	---	e44	48	425	1620	759	159	39
30	---	---	---	---	---	e41	57	491	1460	695	147	64
31	---	---	---	---	---	43	---	727	---	640	142	---
TOTAL	---	---	---	---	---	---	2960	9097	43020	43720	8742	2537
MEAN	---	---	---	---	---	---	98.7	293	1434	1410	282	84.6
MAX	---	---	---	---	---	---	261	822	2560	2580	565	136
MIN	---	---	---	---	---	---	33	15	487	640	142	36
AC-FT	---	---	---	---	---	---	5870	18040	85330	86720	17340	5030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1995, BY WATER YEAR (WY)

	MEAN	64.9	64.4	29.5	---	---	---	126	638	861	349	151	63.0
MAX	89.4	81.3	29.5	---	---	---	---	219	971	1554	1410	406	209
(WY)	1990	1990	1988	---	---	---	---	1990	1994	1991	1995	1917	1917
MIN	50.3	49.2	29.5	---	---	---	---	41.1	293	88.3	10.5	.86	.000
(WY)	1988	1988	1988	---	---	---	---	1993	1995	1992	1994	1994	1994

SUMMARY STATISTICS

HIGHEST DAILY MEAN
LOWEST DAILY MEAN
ANNUAL SEVEN-DAY MINIMUM
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE
10 PERCENT EXCEEDS
50 PERCENT EXCEEDS
90 PERCENT EXCEEDS

WATER YEARS 1917 - 1995

2680 Jun 13 1991
.00 Sep 9 1988
.00 Sep 9 1988
3400 Jun 7 1991
21.86 Jun 6 1995
998
91
6.8

e Estimate.

FISH CREEK BASIN

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

LOCATION.--Lat 43°36'49", long 110°46'44", in NE¹/₄ SW¹/₄ SW¹/₄ sec.9, T.42 N., R.116 W., Teton County, Hydrologic Unit 17040103, Grand Teton National Park, on left bank 60 ft downstream from Granite Creek Supplemental, and 4.3 mi southwest of Moose.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--June to September 1995.

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

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by transbasin diversion 60 ft upstream, into and out of Lake Creek through Granite Creek Supplemental, which diverts water from Snake River main stem for irrigation in Fish Creek Basin. See stations 13016305, 13016310, 13016315 and 13016450. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Nov. 29 . . . 1.47
Jan. 19 . . . 3.90

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	145	73	34
2	---	---	---	---	---	---	---	---	---	150	69	33
3	---	---	---	---	---	---	---	---	---	188	72	32
4	---	---	---	---	---	---	---	---	---	178	71	32
5	---	---	---	---	---	---	---	---	---	138	70	32
6	---	---	---	---	---	---	---	---	---	128	68	31
7	---	---	---	---	---	---	---	---	---	148	65	24
8	---	---	---	---	---	---	---	---	---	185	66	35
9	---	---	---	---	---	---	---	---	---	197	63	57
10	---	---	---	---	---	---	---	---	---	207	58	56
11	---	---	---	---	---	---	---	---	---	223	60	60
12	---	---	---	---	---	---	---	---	---	234	57	58
13	---	---	---	---	---	---	---	---	---	216	54	50
14	---	---	---	---	---	---	---	---	---	180	51	47
15	---	---	---	---	---	---	---	---	---	141	49	45
16	---	---	---	---	---	---	---	---	---	121	46	44
17	---	---	---	---	---	---	---	---	---	112	48	43
18	---	---	---	---	---	---	---	---	---	110	47	43
19	---	---	---	---	---	---	---	---	---	110	45	42
20	---	---	---	---	---	---	---	---	---	108	43	42
21	---	---	---	---	---	---	---	---	---	96	41	42
22	---	---	---	---	---	---	---	---	---	93	40	41
23	---	---	---	---	---	---	---	---	---	80	41	41
24	---	---	---	---	---	---	---	---	---	68	42	40
25	---	---	---	---	---	---	---	---	---	60	42	40
26	---	---	---	---	---	---	---	---	---	74	41	39
27	---	---	---	---	---	---	---	---	---	79	39	38
28	---	---	---	---	---	---	---	---	---	82	38	38
29	---	---	---	---	---	---	---	---	---	169	80	37
30	---	---	---	---	---	---	---	---	---	154	76	37
31	---	---	---	---	---	---	---	---	---	69	34	---
TOTAL	---	---	---	---	---	---	---	---	323	4076	1606	1233
MEAN	---	---	---	---	---	---	---	---	161	131	51.8	41.1
MAX	---	---	---	---	---	---	---	---	169	234	73	60
MIN	---	---	---	---	---	---	---	---	154	60	34	24
AC-FT	---	---	---	---	---	---	---	---	641	8080	3190	2450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	---	131	51.8	41.1
MAX	---	---	---	---	---	---	---	---	---	131	51.8	41.1
(WY)	---	---	---	---	---	---	---	---	---	1995	1995	1995
MIN	---	---	---	---	---	---	---	---	---	131	51.8	41.1
(WY)	---	---	---	---	---	---	---	---	---	1995	1995	1995

SUMMARY STATISTICS

HIGHEST DAILY MEAN

LOWEST DAILY MEAN

INSTANTANEOUS PEAK FLOW

INSTANTANEOUS PEAK STAGE

FOR 1995 WATER YEAR*

234 Jul 12

24 Sep 7

241 Jul 12

2.86 Jul 12

* During period of operation.

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

LOCATION.--Lat 43°36'14", long 110°48'17", in SW¹/₄ SE¹/₄ NE¹/₄ sec.18, T.42 N., R.116 W., Teton County, Hydrologic Unit 17040103, Grand Teton National Park, on right bank 0.7 mi upstream from Granite Creek Supplemental, and 5.7 mi southwest of Moose.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--June to September 1995.

GAGE.--Water-stage recorder. Elevation of gage is 6,400 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. No diversions upstream from station. See stations 13016240, 13016310, 13016315, and 13016450. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Nov. 21 . . . 29.8
Jan. 18 . . . 3.86
May 31 . . . 107

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	204	72	19
2	---	---	---	---	---	---	---	---	144	213	70	18
3	---	---	---	---	---	---	---	---	171	265	68	18
4	---	---	---	---	---	---	---	---	174	242	64	17
5	---	---	---	---	---	---	---	---	220	211	61	17
6	---	---	---	---	---	---	---	---	230	222	59	16
7	---	---	---	---	---	---	---	---	141	254	57	16
8	---	---	---	---	---	---	---	---	117	276	57	16
9	---	---	---	---	---	---	---	---	99	286	51	15
10	---	---	---	---	---	---	---	---	87	282	48	15
11	---	---	---	---	---	---	---	---	85	279	52	15
12	---	---	---	---	---	---	---	---	113	253	46	14
13	---	---	---	---	---	---	---	---	180	240	42	14
14	---	---	---	---	---	---	---	---	246	196	39	13
15	---	---	---	---	---	---	---	---	257	162	36	13
16	---	---	---	---	---	---	---	---	246	154	35	13
17	---	---	---	---	---	---	---	---	243	146	35	13
18	---	---	---	---	---	---	---	---	194	144	33	12
19	---	---	---	---	---	---	---	---	176	141	30	12
20	---	---	---	---	---	---	---	---	155	141	28	13
21	---	---	---	---	---	---	---	---	159	133	28	12
22	---	---	---	---	---	---	---	---	149	126	26	12
23	---	---	---	---	---	---	---	---	139	119	30	12
24	---	---	---	---	---	---	---	---	152	113	31	12
25	---	---	---	---	---	---	---	---	183	107	27	11
26	---	---	---	---	---	---	---	---	225	102	25	11
27	---	---	---	---	---	---	---	---	259	98	23	11
28	---	---	---	---	---	---	---	---	260	93	21	11
29	---	---	---	---	---	---	---	---	233	90	20	11
30	---	---	---	---	---	---	---	---	215	87	20	11
31	---	---	---	---	---	---	---	---	---	78	20	---
TOTAL	---	---	---	---	---	---	---	---	5252	5457	1254	413
MEAN	---	---	---	---	---	---	---	---	181	176	40.5	13.8
MAX	---	---	---	---	---	---	---	---	260	286	72	19
MIN	---	---	---	---	---	---	---	---	85	78	20	11
AC-FT	---	---	---	---	---	---	---	---	10420	10820	2490	819

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

MEAN	---	---	---	---	---	---	---	---	---	176	40.5	13.8
MAX	---	---	---	---	---	---	---	---	---	176	40.5	13.8
(WY)	---	---	---	---	---	---	---	---	---	1995	1995	1995
MIN	---	---	---	---	---	---	---	---	---	176	40.5	13.8
(WY)	---	---	---	---	---	---	---	---	---	1995	1995	1995

SUMMARY STATISTICS

HIGHEST DAILY MEAN

LOWEST DAILY MEAN

INSTANTANEOUS PEAK FLOW

INSTANTANEOUS PEAK STAGE

FOR 1995 WATER YEAR*

286 Jul 9

11 Sep 25-30

323 Jul 9

6.24 Jul 9

* During period of operation.

FISH CREEK BASIN

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

LOCATION.--Lat 43°37'09", long 110°46'27", in SE¹/₄ SE¹/₄ NW¹/₄ sec.9, T.42 N., R.116 W., Teton County, Hydrologic Unit 17040103, Grand Teton National Park, on left bank 0.3 mi downstream from headgate, 0.4 mi upstream from Lake Creek, and 4.0 mi southwest of Moose.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--June to September 1995.

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

REMARKS.--Estimated daily discharges: June 29. Records good. This is a transbasin diversion from Snake River for irrigation in Fish Creek Basin. Diversion point is 0.3 mi northeast of this site, at the right bank of Snake River in SW¹/₄ NE¹/₄ sec.9, T.42 N., R.116 W. See stations 13016240, 13016305, 13016315, and 13016450. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Nov. 29 . . . 0.67
Jan. 19 . . . 0.22

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	9.0	144	160
2	---	---	---	---	---	---	---	---	---	8.8	157	159
3	---	---	---	---	---	---	---	---	---	8.9	172	158
4	---	---	---	---	---	---	---	---	---	9.2	174	157
5	---	---	---	---	---	---	---	---	---	9.0	177	157
6	---	---	---	---	---	---	---	---	---	8.6	177	157
7	---	---	---	---	---	---	---	---	---	8.3	175	136
8	---	---	---	---	---	---	---	---	---	7.9	174	111
9	---	---	---	---	---	---	---	---	---	7.7	175	91
10	---	---	---	---	---	---	---	---	---	7.6	174	90
11	---	---	---	---	---	---	---	---	---	7.6	175	81
12	---	---	---	---	---	---	---	---	---	7.6	174	60
13	---	---	---	---	---	---	---	---	---	7.6	173	51
14	---	---	---	---	---	---	---	---	---	7.5	171	63
15	---	---	---	---	---	---	---	---	---	7.2	170	78
16	---	---	---	---	---	---	---	---	---	6.7	167	78
17	---	---	---	---	---	---	---	---	---	6.4	173	78
18	---	---	---	---	---	---	---	---	---	47	179	77
19	---	---	---	---	---	---	---	---	---	69	176	76
20	---	---	---	---	---	---	---	---	---	53	172	75
21	---	---	---	---	---	---	---	---	---	44	170	75
22	---	---	---	---	---	---	---	---	---	44	169	74
23	---	---	---	---	---	---	---	---	---	44	169	73
24	---	---	---	---	---	---	---	---	---	59	169	73
25	---	---	---	---	---	---	---	---	---	69	168	72
26	---	---	---	---	---	---	---	---	---	103	166	71
27	---	---	---	---	---	---	---	---	---	117	165	69
28	---	---	---	---	---	---	---	---	---	127	163	69
29	---	---	---	---	---	---	---	---	10	131	163	68
30	---	---	---	---	---	---	---	---	9.5	124	162	67
31	---	---	---	---	---	---	---	---	---	123	161	---
TOTAL	---	---	---	---	---	---	---	---	19.5	1289.6	5254	2804
MEAN	---	---	---	---	---	---	---	---	9.75	41.6	169	93.5
MAX	---	---	---	---	---	---	---	---	10	131	179	160
MIN	---	---	---	---	---	---	---	---	9.5	6.4	144	51
AC-FT	---	---	---	---	---	---	---	---	39	2560	10420	5560

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

MEAN	---	---	---	---	---	---	---	---	---	41.6	169	93.5
MAX	---	---	---	---	---	---	---	---	---	41.6	169	93.5
(WY)	---	---	---	---	---	---	---	---	---	1995	1995	1995
MIN	---	---	---	---	---	---	---	---	---	41.6	169	93.5
(WY)	---	---	---	---	---	---	---	---	---	1995	1995	1995

SUMMARY STATISTICS

HIGHEST DAILY MEAN
LOWEST DAILY MEAN
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE

FOR 1995 WATER YEAR*

179 Aug 18
6.4 Jul 17
189 Aug 3
3.85 Aug 3

* During period of operation.

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

LOCATION.--Lat 43°36'22", long 110°47'24", in NW¹/₄ SW¹/₄ NE¹/₄ sec.17, T.42 N., R.116 W., Teton County, Hydrologic Unit 17040103, Grand Teton National Park, on left bank 800 ft upstream from bridge on Moose-Wilson road, 0.9 mi upstream from mouth, and 5.4 mi southwest of Moose.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--June to September 1995.

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

REMARKS.--Estimated daily discharges: June 29 and July 5, 6. Records good. Canal diverts water from Snake River in SW¹/₄ NE¹/₄ sec.9, T.42 N., R.16 W., for irrigation in Fish Creek Basin. Figures given herein represent water diverted from main stem of Snake River, less that which may divert into Lake Creek, 0.8 mi upstream. Figures given herein also represent water diverted into this canal from Lake Creek, 0.8 mi upstream. See stations 13016240, 13016305, 13016310, and 13016450. Results of discharge measurement, in cubic feet per second, made during the period when station was not in operation, is given below:

Nov. 21 . . . 0.53

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	99	157	137
2	---	---	---	---	---	---	---	---	---	102	165	136
3	---	---	---	---	---	---	---	---	---	121	175	135
4	---	---	---	---	---	---	---	---	---	112	176	134
5	---	---	---	---	---	---	---	---	---	99	175	134
6	---	---	---	---	---	---	---	---	---	94	175	133
7	---	---	---	---	---	---	---	---	---	95	174	121
8	---	---	---	---	---	---	---	---	---	107	175	86
9	---	---	---	---	---	---	---	---	---	121	172	37
10	---	---	---	---	---	---	---	---	---	127	168	37
11	---	---	---	---	---	---	---	---	---	132	171	23
12	---	---	---	---	---	---	---	---	---	139	168	2.4
13	---	---	---	---	---	---	---	---	---	133	162	2.1
14	---	---	---	---	---	---	---	---	---	117	157	15
15	---	---	---	---	---	---	---	---	---	101	153	35
16	---	---	---	---	---	---	---	---	---	91	150	35
17	---	---	---	---	---	---	---	---	---	88	152	35
18	---	---	---	---	---	---	---	---	---	129	156	35
19	---	---	---	---	---	---	---	---	---	152	153	34
20	---	---	---	---	---	---	---	---	---	149	150	34
21	---	---	---	---	---	---	---	---	---	139	149	34
22	---	---	---	---	---	---	---	---	---	137	148	34
23	---	---	---	---	---	---	---	---	---	127	149	34
24	---	---	---	---	---	---	---	---	---	138	152	33
25	---	---	---	---	---	---	---	---	---	147	151	33
26	---	---	---	---	---	---	---	---	---	158	149	33
27	---	---	---	---	---	---	---	---	---	163	146	32
28	---	---	---	---	---	---	---	---	---	166	144	31
29	---	---	---	---	---	---	---	---	106	167	143	30
30	---	---	---	---	---	---	---	---	101	164	141	30
31	---	---	---	---	---	---	---	---	---	155	139	---
TOTAL	---	---	---	---	---	---	---	---	207	3969	4895	1664.5
MEAN	---	---	---	---	---	---	---	---	103	128	158	55.5
MAX	---	---	---	---	---	---	---	---	106	167	176	137
MIN	---	---	---	---	---	---	---	---	101	88	139	2.1
AC-FT	---	---	---	---	---	---	---	---	411	7870	9710	3300
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1995, BY WATER YEAR (WY)												
MEAN	---	---	---	---	---	---	---	---	---	128	158	55.5
MAX	---	---	---	---	---	---	---	---	---	128	158	55.5
(WY)	---	---	---	---	---	---	---	---	---	1995	1995	1995
MIN	---	---	---	---	---	---	---	---	---	128	158	55.5
(WY)	---	---	---	---	---	---	---	---	---	1995	1995	1995

SUMMARY STATISTICS
HIGHEST DAILY MEAN
LOWEST DAILY MEAN
INSTANTANEOUS PEAK FLOW
INSTANTANEOUS PEAK STAGE

FOR 1995 WATER YEAR*
176 Aug 4
2.1 Sep 13
184 Aug 3
3.27 Aug 3

* During period of operation.

FISH CREEK BASIN

13016450 FISH CREEK AT WILSON, WY

LOCATION.--Lat 43°30'03", long 110°52'15", in NW¹/₄ NW¹/₄ SE¹/₄ sec.22, T.41 N., R.117 W., Teton County, Hydrologic Unit 17040103, on left bank 20 ft downstream from bridge on Fish Creek Road (County Road 3) in Wilson.

DRAINAGE AREA.--Undetermined.

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

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

REMARKS.--Estimated daily discharges: Nov. 22, 23, Dec. 10, 11, 22, Dec. 31 to Jan. 7, and Jan. 21-24. Records good. Natural flow of stream affected by transbasin diversion from Snake River through Granite Creek Supplemental for irrigation in Fish Creek Basin and by additional diversions upstream from station within Fish Creek Basin. See stations 13016240, 13016305, 13016310, and 13016315.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	56	43	38	40	41	59	95	284	571	289	203
2	87	55	43	38	46	40	60	92	293	565	280	202
3	84	53	43	37	45	41	63	90	338	648	276	199
4	86	52	44	36	45	41	70	89	366	685	276	198
5	88	52	44	37	44	40	81	91	408	600	274	198
6	86	51	44	38	44	39	97	98	488	541	265	192
7	83	52	42	39	43	39	111	97	486	554	261	189
8	78	53	42	40	43	39	114	95	429	625	264	183
9	74	52	41	39	42	39	111	98	445	680	258	188
10	73	52	41	40	43	40	102	101	400	728	256	185
11	70	51	42	40	41	47	97	108	343	777	273	177
12	68	50	43	41	41	51	94	114	301	812	263	164
13	66	50	43	40	42	49	92	107	332	816	258	148
14	66	48	43	40	42	49	92	104	445	715	253	141
15	72	47	43	40	41	50	90	97	595	614	247	136
16	72	47	43	40	41	54	89	100	667	548	238	135
17	70	47	43	40	41	54	87	121	703	470	235	132
18	70	48	43	40	41	56	86	142	662	410	232	130
19	68	45	43	40	39	58	84	163	607	429	232	125
20	65	44	42	38	40	58	83	172	527	486	230	126
21	64	45	42	38	41	63	82	186	497	457	225	126
22	62	44	41	37	40	61	81	215	499	468	221	124
23	62	44	41	37	40	59	81	230	485	440	218	124
24	61	44	41	38	41	60	81	195	477	386	232	123
25	60	46	41	39	40	59	81	161	502	345	231	120
26	58	45	42	40	39	58	82	159	551	334	223	124
27	58	44	42	39	40	58	80	174	613	335	217	124
28	55	44	41	39	40	58	81	189	672	329	211	122
29	55	44	41	38	---	58	83	188	660	328	206	119
30	55	43	39	38	---	58	93	196	617	321	200	114
31	56	---	38	38	---	59	---	234	---	307	201	---
TOTAL	2160	1448	1304	1202	1165	1576	2587	4301	14692	16324	7545	4571
MEAN	69.7	48.3	42.1	38.8	41.6	50.8	86.2	139	490	527	243	152
MAX	88	56	44	41	46	63	114	234	703	816	289	203
MIN	55	43	38	36	39	39	59	89	284	307	200	114
AC-FT	4280	2870	2590	2380	2310	3130	5130	8530	29140	32380	14970	9070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MEAN	69.7	48.3	42.1	38.8	41.6	50.8	78.0	196	420	403	249	145
MAX	69.7	48.3	42.1	38.8	41.6	50.8	86.2	254	490	527	255	152
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1995
MIN	69.7	48.3	42.1	38.8	41.6	50.8	69.7	139	351	280	243	137
(WY)	1995	1995	1995	1995	1995	1995	1994	1995	1994	1994	1995	1994

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR*	FOR 1995 WATER YEAR	WATER YEARS 1994 - 1995
ANNUAL TOTAL	--	58875	--
ANNUAL MEAN	--	161	161
HIGHEST ANNUAL MEAN	--	--	161
LOWEST ANNUAL MEAN	--	--	161
HIGHEST DAILY MEAN	517	816	816
LOWEST DAILY MEAN	38	36	36
ANNUAL SEVEN-DAY MINIMUM	41	37	37
INSTANTANEOUS PEAK FLOW	--	846	846
INSTANTANEOUS PEAK STAGE	--	4.59	4.59
ANNUAL RUNOFF (AC-FT)	--	116800	116900
10 PERCENT EXCEEDS	310	469	401
50 PERCENT EXCEEDS	114	81	114
90 PERCENT EXCEEDS	43	40	41

* During period of operation.

FLAT CREEK BASIN

301

13018300 CACHE CREEK NEAR JACKSON, WY
(Hydrologic bench-mark station)

LOCATION.--Lat 43°27'08", long 110°42'12", in SW¹/₄ SW¹/₄ SE¹/₄ sec.1, T.40 N., R.116 W., Teton County, Hydrologic Unit 17040103, Teton National Forest, on right bank 0.7 mi upstream from Salt Lick Draw, 2.4 mi southeast of Jackson, and 4.0 mi upstream from mouth.
DRAINAGE AREA.--10.6 mi².

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Estimated daily discharges: Nov. 3-5, 9, 14-25, Dec. 7-14, Dec. 30 to Jan. 5, Jan. 8-19, Jan. 21 to Feb. 5, Feb. 12-18, and Mar. 3-7, 11, 12. Records fair except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 52 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 6	0015	80	3.83	June 14	1930	*91	*3.90

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	4.6	4.3	3.2	3.8	4.4	4.2	7.5	47	45	26	12
2	4.6	4.5	4.1	3.1	4.1	4.6	4.2	7.6	51	44	25	12
3	4.3	4.5	4.1	3.1	4.3	4.5	4.3	7.7	55	45	24	12
4	4.8	4.5	4.1	3.2	4.4	4.4	4.6	8.2	59	44	24	12
5	5.3	4.6	4.2	3.5	4.5	4.4	4.8	9.6	65	41	23	12
6	5.6	4.6	4.3	3.8	4.8	4.1	5.1	11	69	41	23	12
7	4.8	4.5	4.2	3.8	4.8	4.1	5.6	10	54	43	21	12
8	4.6	4.4	3.9	4.0	4.8	3.5	5.5	10	50	43	21	12
9	4.4	4.4	3.7	4.1	4.6	3.6	5.5	11	48	44	20	11
10	4.4	4.4	3.6	4.2	4.4	3.5	5.5	13	45	43	20	11
11	4.4	4.4	3.4	4.4	4.5	3.6	5.4	16	45	44	20	11
12	4.4	4.4	3.3	4.4	4.3	3.8	5.3	16	51	44	19	11
13	4.4	4.4	3.4	4.3	4.1	3.7	5.7	15	67	43	18	11
14	5.8	4.2	3.7	4.3	4.1	3.5	6.2	14	81	41	17	10
15	6.2	4.1	4.3	4.2	4.1	3.6	5.9	15	72	42	17	10
16	5.2	4.0	4.4	4.1	4.3	3.7	6.0	18	68	40	17	10
17	5.2	4.0	4.4	3.8	4.6	3.5	6.1	21	64	39	16	10
18	5.2	3.7	4.4	3.5	5.2	3.5	6.1	23	60	37	16	10
19	5.1	3.1	4.4	3.6	5.5	3.6	6.1	24	59	37	15	10
20	4.8	2.9	4.2	3.6	5.1	3.5	6.3	25	53	37	15	10
21	4.6	2.8	4.1	3.5	4.9	3.7	6.3	27	57	36	15	9.8
22	4.4	2.4	4.1	3.4	4.6	3.6	6.4	30	51	36	15	9.8
23	4.4	1.3	4.3	3.3	4.4	3.6	6.6	31	47	34	15	9.6
24	4.3	3.0	4.3	3.4	4.4	3.8	6.6	30	46	34	15	9.2
25	4.2	4.0	4.2	3.5	4.4	3.8	6.8	30	46	32	15	9.1
26	4.2	4.5	4.3	3.6	4.4	4.0	6.8	30	47	31	14	9.3
27	4.3	4.4	4.3	3.6	4.4	4.8	6.9	30	47	30	14	9.4
28	4.5	4.4	4.3	3.7	4.2	5.4	7.6	30	48	29	13	9.1
29	4.3	4.3	4.2	3.6	---	7.3	7.6	31	46	29	13	8.9
30	5.1	4.3	3.6	3.5	---	8.9	7.7	35	45	28	13	9.1
31	4.8	---	3.4	3.6	---	6.9	---	42	---	27	13	---
TOTAL	147.1	119.6	125.5	114.9	126.0	132.9	177.7	628.6	1643	1183	552	314.3
MEAN	4.75	3.99	4.05	3.71	4.50	4.29	5.92	20.3	54.8	38.2	17.8	10.5
MAX	6.2	4.6	4.4	4.4	5.5	8.9	7.7	42	81	45	26	12
MIN	4.2	1.3	3.3	3.1	3.8	3.5	4.2	7.5	45	27	13	8.9
AC-FT	292	237	249	228	250	264	352	1250	3260	2350	1090	623

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1995, BY WATER YEAR (WY)

	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	6.69	5.59	4.83	4.22	3.91	3.97	6.46	25.2	48.2	24.0	12.0	8.26																						
MAX	9.43	7.29	6.65	5.91	6.09	7.25	14.2	47.1	103	42.0	18.5	12.3																						
(WY)	1972	1987	1984	1981	1984	1984	1987	1969	1971	1965	1971	1971																						
MIN	3.83	3.14	1.53	2.42	2.06	2.23	3.21	5.86	10.6	6.51	4.19	3.83																						
(WY)	1993	1978	1991	1978	1992	1991	1991	1977	1992	1977	1992	1992																						

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1962 - 1995
ANNUAL TOTAL	3081.6	5264.6	--
ANNUAL MEAN	8.44	14.4	12.8
HIGHEST ANNUAL MEAN	--	--	20.2
LOWEST ANNUAL MEAN	--	--	5.64
HIGHEST DAILY MEAN	53	81	161
LOWEST DAILY MEAN	1.3	1.3	1.1
ANNUAL SEVEN-DAY MINIMUM	2.1	2.7	1.3
INSTANTANEOUS PEAK FLOW	--	91	225a
INSTANTANEOUS PEAK STAGE	--	3.90	3.97
ANNUAL RUNOFF (AC-FT)	6110	10440	9260
10 PERCENT EXCEEDS	22	44	32
50 PERCENT EXCEEDS	4.6	5.4	6.4
90 PERCENT EXCEEDS	2.7	3.6	3.6

a Gage height, 3.90 ft.

FLAT CREEK BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
NOV 29...	1200	4.4	283	8.5	0.0	-4.0	598	0.40	11.8	103
JAN 27...	0905	3.6	302	8.5	0.5	-2.0	593	0.50	11.1	99
MAR 16...	1100	3.6	313	8.5	1.5	0.5	596	0.30	11.0	101
MAY 23...	1345	30	341	8.6	5.0	6.0	593	4.5	9.9	100
JUN 01...	1845	48	319	8.5	5.0	17.0	597	17	10.0	100
AUG 15...	1315	17	306	8.5	9.0	21.0	596	0.60	9.2	102

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)
NOV 29...	K8	K1	170	45	14	2.1	0.1	0.5	199	5
JAN 27...	56	K2	170	46	14	2.3	0.1	0.5	193	4
MAR 16...	<1	<1	170	45	14	3.0	0.1	0.7	198	7
MAY 23...	K1	<1	180	51	12	3.3	0.1	0.7	215	3
JUN 01...	K1	23	170	49	11	2.8	0.1	0.6	206	0
AUG 15...	K1	29	160	42	13	1.4	0.0	0.5	190	3

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)
NOV 29...	171	175	4.2	0.5	<0.1	4.8	175	175	0.24	2.08
JAN 27...	164	175	3.5	0.4	0.1	4.7	175	171	0.24	1.70
MAR 16...	174	179	6.0	0.5	0.1	5.0	186	179	0.25	1.81
MAY 23...	181	186	4.2	<0.1	<0.1	5.2	197	185	0.27	16
JUN 01...	169	176	3.3	0.5	0.1	4.7	180	174	0.24	24.3
AUG 15...	160	166	3.2	0.4	<0.1	4.5	161	161	0.22	7.39

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS ORTHOPHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHOPHOS- PHORUS TOTAL (MG/L AS P) (00671)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 29...	<0.01	0.12	<0.02	<0.2	0.02	0.01	96	1.1	55
JAN 27...	<0.01	0.10	<0.02	<0.2	0.10	0.01	66	0.64	33
MAR 16...	<0.01	0.05	<0.02	<0.2	<0.01	<0.01	50	0.49	73
MAY 23...	<0.01	0.05	0.03	<0.2	0.03	0.01	96	7.8	76
JUN 01...	<0.01	<0.05	0.02	<0.2	0.07	<0.01	138	19	74
AUG 15...	<0.01	0.07	0.02	<0.2	0.01	0.01	32	1.5	61

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
NOV 29...	1200	4.4	0.0	-4.0	<10	28	<3	4
MAR 16...	1100	3.6	1.5	0.5	10	32	<3	4
MAY 23...	1345	30	5.0	6.0	<10	49	<3	5
JUN 01...	1845	50	5.0	17.0	<10	48	<3	5

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)
NOV 29...	<4	<1	20	<1	<1	<1.0	56	<6
MAR 16...	5	<1	<10	<1	<1	<1.0	64	<6
MAY 23...	<4	<1	<10	<1	<1	<1.0	94	<6
JUN 01...	<4	2	<10	<1	<1	<1.0	86	<6

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
JUN 01...	1845	50	5.0	17.0	0.06	0.35
AUG 15...	1315	17	9.0	21.0	0.04	0.32

13018350 FLAT CREEK BELOW CACHE CREEK, NEAR JACKSON, WY

LOCATION.--Lat 43°27'30", long 110°47'46", in SW¹/₄ SE¹/₄ NE¹/₄ sec.6, T.40 N., R.116 W., Teton County, Hydrologic Unit 17040103, on left bank 8 ft upstream from county bridge on High School Road, 2.1 mi southwest of Post Office in Jackson, and 3.0 mi downstream from Cache Creek.

DRAINAGE AREA.--129 mi².

PERIOD OF RECORD.--April 1989 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 6,130 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by diversions for irrigation. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 20 . . . 67.7
Mar. 13 . . . 58.6

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	49	59	139	151	162	90
2	---	---	---	---	---	---	49	83	142	150	163	90
3	---	---	---	---	---	---	50	92	150	159	161	91
4	---	---	---	---	---	---	53	94	154	165	158	88
5	---	---	---	---	---	---	52	102	159	168	156	92
6	---	---	---	---	---	---	55	121	158	166	154	94
7	---	---	---	---	---	---	57	115	152	167	151	88
8	---	---	---	---	---	---	62	112	144	170	153	84
9	---	---	---	---	---	---	58	112	157	184	158	83
10	---	---	---	---	---	---	55	115	153	194	156	79
11	---	---	---	---	---	---	53	121	136	209	159	76
12	---	---	---	---	---	---	53	126	128	249	156	71
13	---	---	---	---	---	---	53	128	141	256	149	71
14	---	---	---	---	---	---	53	121	163	241	151	70
15	---	---	---	---	---	---	54	123	184	232	148	70
16	---	---	---	---	---	---	50	136	197	227	140	71
17	---	---	---	---	---	---	50	149	200	218	125	71
18	---	---	---	---	---	---	50	139	207	204	105	71
19	---	---	---	---	---	---	50	126	208	200	107	72
20	---	---	---	---	---	---	50	122	195	204	107	76
21	---	---	---	---	---	---	48	124	173	197	108	75
22	---	---	---	---	---	---	46	130	164	194	107	74
23	---	---	---	---	---	---	46	118	155	190	109	73
24	---	---	---	---	---	---	48	119	145	184	117	71
25	---	---	---	---	---	---	54	121	139	182	119	70
26	---	---	---	---	---	---	52	124	136	175	113	72
27	---	---	---	---	---	---	51	130	141	172	105	72
28	---	---	---	---	---	---	60	126	149	168	101	72
29	---	---	---	---	---	---	60	125	154	163	97	70
30	---	---	---	---	---	---	65	125	155	164	94	71
31	---	---	---	---	---	---	---	130	---	166	91	---
TOTAL	---	---	---	---	---	---	1586	3668	4778	5869	4080	2318
MEAN	---	---	---	---	---	---	52.9	118	159	189	132	77.3
MAX	---	---	---	---	---	---	65	149	208	256	163	94
MIN	---	---	---	---	---	---	46	59	128	150	91	70
AC-FT	---	---	---	---	---	---	3150	7280	9480	11640	8090	4600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995
MEAN	60.0	101	126	118	91.3	56.0	
MAX	70.1	123	168	189	162	84.2	
(WY)	1990	1993	1991	1995	1993	1991	
MIN	52.9	82.1	57.1	58.3	40.5	30.7	
(WY)	1995	1989	1992	1992	1992	1992	

SUMMARY STATISTICS

HIGHEST DAILY MEAN

LOWEST DAILY MEAN

FOR 1995 WATER YEAR*

256 Jul 13
46 Apr 22, 23

WATER YEARS 1989 - 1995*

256 Jul 13 1995
23 Aug 30, Sep 1 1990
24 Aug 29 1990
277 Jul 12 1995
2.95 Jul 12 1995
23 Aug 30 1990

ANNUAL SEVEN-DAY MINIMUM

INSTANTANEOUS PEAK FLOW

INSTANTANEOUS PEAK STAGE

INSTANTANEOUS LOW FLOW

10 PERCENT EXCEEDS

50 PERCENT EXCEEDS

90 PERCENT EXCEEDS

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277 Jul 12
2.95 Jul 12
--
--
--

24
277
2.95
23
160
77
44

* During period of operation.

13018750 SNAKE RIVER BELOW FLAT CREEK, NEAR JACKSON, WY

LOCATION.--Lat 43°22'20", long 110°44'17", in NE¹/₄ SE¹/₄ sec.3, T.39 N., R.116 W., Teton County, Hydrologic Unit 17040103, on left bank 20 ft upstream from county road bridge, about 1 mi downstream from Flat Creek, 4.8 mi upstream from Hoback River, 7.0 mi south of Jackson, and at mile 938.9.

DRAINAGE AREA.--2,627 mi².

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2600	1240	1150	e950	1240	e1100	1260	1830	9800	10800	6190	4140
2	1940	1310	1160	e960	1520	e1080	1280	1780	10700	10700	5970	4130
3	1680	1250	1180	e950	1310	e1100	1330	1780	12200	11300	5810	4120
4	1660	1210	1230	e920	1210	e1160	1400	1790	13300	12100	5710	4120
5	1640	1190	1270	e990	1170	e1120	1500	1870	13800	11900	5650	4130
6	1590	1250	1220	e1040	1160	e1080	1680	2130	15400	11300	5560	4080
7	1480	1340	1160	e1070	1140	e1060	1890	2140	15900	11300	5470	4080
8	1410	1310	e1080	1100	1130	e1060	1970	2110	13500	12200	5420	4150
9	1350	1250	e1030	1090	1110	1080	1850	2130	12700	13000	5450	4150
10	1320	1230	e980	1100	1100	1170	1690	2250	11800	13100	5350	4080
11	1290	1250	e1060	1100	1060	1370	1580	2430	11200	13500	5440	4070
12	1270	1260	e1120	1070	1050	1540	1550	2680	11800	14300	5390	4050
13	1250	1250	1130	1080	1070	1500	1570	2810	12500	14700	5240	4000
14	1270	1220	1110	1090	1070	1440	1650	2670	14200	13800	5140	3940
15	1590	1140	e1100	1150	1080	1460	1680	2710	15600	12600	5030	3880
16	1560	1160	e1130	1110	1060	1570	1620	3310	15900	11100	4920	3850
17	1480	1160	1140	1090	1050	1530	1590	4010	15600	9940	4860	3830
18	1440	1140	1120	1090	1070	1500	1570	4460	14500	8970	4790	3830
19	1400	1110	1140	1080	1070	1610	1530	4700	13600	8690	4720	3710
20	1350	1110	1090	e1030	1120	1540	1520	4850	12800	9050	4660	3700
21	1310	e1050	e1080	e970	1170	1660	1520	5180	12900	8940	4620	3720
22	1290	e1000	e1070	e980	1120	1620	1510	5650	12800	8870	4560	3680
23	1260	e1020	e1090	e990	1100	1490	1510	5570	12500	8510	4570	3640
24	1240	e1070	1120	e1010	1110	1460	1510	5010	11900	8010	4730	3600
25	1230	1110	1130	e1020	1110	1410	1580	4750	12000	7620	4770	3590
26	1240	1130	1130	e1030	1110	1340	1600	4820	12400	7280	4640	3570
27	1260	e1090	1140	1040	1170	1300	1550	5300	12200	7040	4520	3600
28	1280	e1080	1130	1030	1180	1280	1710	5270	12300	6850	4450	3560
29	1300	e1070	1130	1000	---	1250	1790	5400	11700	6730	4380	3550
30	1240	e1120	1100	1020	---	1240	1910	5870	11000	6590	4290	3620
31	1220	---	e1030	1050	---	1250	---	7560	---	6450	4230	---
TOTAL	44440	35120	34750	32200	31860	41370	47900	114820	388500	317240	156530	116170
MEAN	1434	1171	1121	1039	1138	1335	1597	3704	12950	10230	5049	3872
MAX	2600	1340	1270	1150	1520	1660	1970	7560	15900	14700	6190	4150
MIN	1220	1000	980	920	1050	1060	1260	1780	9800	6450	4230	3550
AC-FT	88150	69660	68930	63870	63190	82060	95010	227700	770600	629200	310500	230400
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1995, BY WATER YEAR (WY)												
MEAN	1778	1503	1358	1245	1264	1473	2498	6381	10380	6634	4269	3310
MAX	3093	2747	1998	1899	1612	2689	5435	10840	19590	14090	7253	6464
(WY)	1983	1984	1984	1983	1983	1986	1985	1976	1986	1982	1976	1984
MIN	977	967	846	879	825	910	1292	2570	5356	3245	2305	1801
(WY)	1989	1988	1988	1988	1989	1977	1977	1977	1994	1988	1981	1979
SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1976 - 1995												
ANNUAL TOTAL	1018170			1360900			---			---		
ANNUAL MEAN	2790			3728			3454			---		
HIGHEST ANNUAL MEAN	---			---			5015			1986		
LOWEST ANNUAL MEAN	---			---			2469			1977		
HIGHEST DAILY MEAN	9500			May 29			15900			Jun 7		
LOWEST DAILY MEAN	980			Dec 10			920			Jan 4		
ANNUAL SEVEN-DAY MINIMUM	1070			Nov 19			977			Dec 31		
INSTANTANEOUS PEAK FLOW	---			---			17400			Jun 7		
INSTANTANEOUS PEAK STAGE	---			---			8.33			Jun 7		
ANNUAL RUNOFF (AC-FT)	2020000			2699000			2503000			10.22		
10 PERCENT EXCEEDS	5980			11500			8240			---		
50 PERCENT EXCEEDS	1420			1550			1990			---		
90 PERCENT EXCEEDS	1140			1070			1100			---		

e Estimate.

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

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

DRAINAGE AREA.--3,465 mi².

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2900	1430	1320	e1160	1440	1370	1620	2980	12200	12800	6680	4400
2	2260	1520	1330	e1150	1810	1360	1680	2880	13400	12800	6450	4370
3	1950	1440	1350	e1140	1610	1400	1800	2920	14900	13700	6290	4380
4	1940	1380	1420	e1120	1470	1430	1980	3000	15900	14600	6200	4340
5	1930	1380	1480	e1210	1430	1390	2220	3190	16400	14000	6080	4380
6	1910	1440	1410	e1260	1400	1350	2470	3730	17900	13300	5970	4340
7	1760	1550	1320	e1270	1390	1310	2910	3630	17800	13400	5890	4270
8	1650	1530	1290	e1280	1380	1300	3050	3540	15000	14400	5900	4300
9	1580	1440	e1220	e1300	1360	1330	2750	3670	14500	15200	5830	4330
10	1520	1430	e1160	e1320	1340	1410	2460	4020	13600	15300	5810	4290
11	1500	1460	e1220	e1310	1240	1630	2260	4340	12900	15600	5860	4220
12	1480	1470	e1280	e1300	e1230	2010	2240	4720	13400	16700	5830	4200
13	1450	1470	e1370	e1300	e1240	1980	2340	4690	15100	17000	5580	4160
14	1480	1390	e1300	e1320	e1240	1850	2680	4350	17000	15600	5440	4100
15	1900	1300	e1280	e1360	e1250	1840	2550	4340	18500	14000	5310	4030
16	1860	1340	e1340	e1320	e1230	1990	2400	5220	18900	12500	5220	3980
17	1750	1340	1380	1290	1270	1980	2390	6090	18600	11400	5060	3950
18	1710	1290	1320	1280	1300	1940	2400	6600	17700	10300	5000	e3940
19	1650	e1240	1330	1280	1290	2090	2390	6870	16600	9890	4940	e3910
20	1580	e1220	1280	1240	1350	1990	2310	7020	15400	10500	4870	e3850
21	1530	e1180	e1270	e1190	1430	2090	2290	7390	15000	10200	4830	3830
22	1500	e1160	e1260	e1200	1380	2090	2320	7910	15100	9960	4790	3830
23	1470	e1260	e1300	e1210	1350	1920	2350	8140	14600	9500	4760	3800
24	1440	e1320	e1370	e1240	1360	1880	2370	7160	14000	8940	5060	3770
25	1420	1340	e1390	e1260	1370	1810	2500	6670	14000	8550	5110	3750
26	1430	1320	1310	e1280	1390	1700	2510	6720	14400	8150	4910	3730
27	1460	1270	1320	e1260	1460	1650	2450	7180	14900	7830	4760	3700
28	1480	e1250	1310	e1220	1440	1640	2810	7210	15200	7640	4660	3700
29	1500	e1240	1320	e1210	---	1590	2940	7360	14200	7440	4580	3680
30	1430	e1300	1240	e1240	---	1560	3150	7900	13200	7310	4530	3670
31	1410	---	e1200	e1300	---	1600	---	9600	---	7020	4490	---
TOTAL	51830	40700	40690	38820	38450	52480	72590	171040	460300	365530	166690	121200
MEAN	1672	1357	1313	1252	1373	1693	2420	5517	15340	11790	5377	4040
MAX	2900	1550	1480	1360	1810	2090	3150	9600	18900	17000	6680	4400
MIN	1410	1160	1160	1120	1230	1300	1620	2880	12200	7020	4490	3670
AC-FT	102800	80730	80710	77000	76270	104100	144000	339300	913000	725000	330600	240400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1995, BY WATER YEAR (WY)

	MEAN	2145	1839	1688	1483	1577	1785	3264	8675	13040	8541	5373	3999
MAX	3605	4244	5795	2225	3381	3475	6820	15410	24090	15790	7541	7595	
(WY)	1983	1957	1957	1983	1961	1986	1985	1971	1986	1982	1956	1984	
MIN	1325	1225	1101	1069	1071	1099	1506	2995	6257	3802	2494	2241	
(WY)	1978	1978	1988	1964	1938	1955	1955	1977	1994	1988	1981	1977	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1937 - 1995
ANNUAL TOTAL	1184220	1620320	--
ANNUAL MEAN	3244	4439	4473
HIGHEST ANNUAL MEAN	--	--	6587
LOWEST ANNUAL MEAN	--	--	2726
HIGHEST DAILY MEAN	11700	May 14	18900
LOWEST DAILY MEAN	1160	Nov 22	1120
ANNUAL SEVEN-DAY MINIMUM	1240	Nov 18	1170
INSTANTANEOUS PEAK FLOW	--	--	19500
INSTANTANEOUS PEAK STAGE	--	--	9.78
INSTANTANEOUS LOW FLOW	--	--	740
ANNUAL RUNOFF (AC-FT)	2349000	3214000	3241000
10 PERCENT EXCEEDS	6910	13500	10700
50 PERCENT EXCEEDS	1750	2090	2400
90 PERCENT EXCEEDS	1340	1270	1300

e Estimate.

GREYS RIVER BASIN

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13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°08'35", long 110°58'34", in SW¹/₄ SE¹/₄ sec.34, T.37 N., R.118 W. (unsurveyed), Lincoln County, Hydrologic Unit 17040103, on right bank at Bridge Campground, 3.6 mi southeast of Alpine, 3.0 mi upstream from maximum flowline of Palisades Reservoir.

DRAINAGE AREA.--448 mi². Mean elevation, 8,080 ft.

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

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

REMARKS.--Records fair except for estimated daily discharges which are poor. Station equipment includes satellite telemetry. Less than 500 acres irrigated by diversions from Greys River and tributaries above station. Peak discharges greater than a base discharge of 2,000 ft³/s are available.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	198	219	e125	228	208	312	824	2080	1860	733	456
2	231	214	214	e123	272	225	333	838	2170	1830	711	460
3	222	197	210	e121	243	239	373	824	2280	2080	686	469
4	229	172	210	e120	222	232	435	853	2340	2150	674	453
5	239	201	195	e140	215	225	481	951	2500	1900	670	459
6	248	201	180	e150	208	211	606	1070	2620	1820	643	445
7	242	201	171	e160	204	208	707	991	2120	1850	624	440
8	224	193	e160	e172	204	200	733	936	2060	1870	633	437
9	216	178	e150	e185	204	215	636	1010	2040	1840	615	430
10	212	197	e140	e215	200	212	547	1150	1900	1820	598	425
11	208	191	e145	e210	194	254	497	1260	1770	1810	602	420
12	208	191	e155	e208	e188	333	481	1310	1970	1840	586	416
13	208	193	e165	e212	e185	304	553	1180	2420	1730	564	413
14	216	177	171	e220	e190	288	674	1100	2790	1540	558	412
15	285	153	162	e210	169	296	600	1110	2640	1420	547	401
16	253	e170	176	204	e158	324	559	1320	2430	1330	537	401
17	244	e160	e185	197	e145	320	559	1460	2320	1250	527	397
18	241	e155	e180	187	e170	337	559	1560	2240	1200	524	395
19	240	148	e170	194	e185	364	564	1570	2150	1170	512	391
20	229	e140	e168	211	190	300	553	1610	2100	1230	503	391
21	224	e135	e165	167	197	373	536	1670	2110	1130	498	391
22	219	e145	e170	e155	197	382	564	1710	2080	1090	497	391
23	212	164	e180	e145	200	350	576	1710	1970	1040	508	391
24	208	182	e190	e160	208	346	600	1570	2000	971	569	387
25	206	222	e200	e170	215	337	636	1470	2090	937	529	387
26	201	227	e210	e180	236	316	630	1490	2110	893	498	388
27	203	199	197	e220	243	304	649	1450	2080	857	484	403
28	205	193	178	218	232	304	720	1400	2180	830	476	388
29	206	179	e155	204	---	300	795	1530	2040	804	475	383
30	186	198	e145	194	---	296	882	1630	1910	773	461	382
31	194	---	e130	215	---	304	---	1780	---	759	460	---
TOTAL	6895	5474	5446	5592	5702	8907	17350	40337	65510	43624	17502	12402
MEAN	222	182	176	180	204	287	578	1301	2184	1407	565	413
MAX	285	227	219	220	272	382	882	1780	2790	2150	733	469
MIN	186	135	130	120	145	200	312	824	1770	759	460	382
AC-FT	13680	10860	10800	11090	11310	17670	34410	80010	129900	86530	34720	24600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1995, BY WATER YEAR (WY)

	MEAN	312	264	232	211	204	226	623	1756	1989	941	479	364
MAX	472	455	366	315	293	406	1324	2843	3998	1904	809	559	
(WY)	1983	1984	1984	1971	1963	1986	1962	1956	1971	1975	1971	1982	
MIN	191	150	142	133	132	173	238	333	387	228	205	198	
(WY)	1993	1993	1993	1993	1993	1967	1975	1977	1977	1977	1977	1977	

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1937 - 1995
ANNUAL TOTAL	165143	234741	--
ANNUAL MEAN	452	643	638
HIGHEST ANNUAL MEAN	--	--	1022
LOWEST ANNUAL MEAN	--	--	259
HIGHEST DAILY MEAN	2830	May 13	2790
LOWEST DAILY MEAN	130	Dec 31	120
ANNUAL SEVEN-DAY MINIMUM	147	Feb 8	129
INSTANTANEOUS PEAK FLOW	--	--	3060
INSTANTANEOUS PEAK STAGE	--	4.69	Jun 14
INSTANTANEOUS LOW FLOW	--	--	19.10
ANNUAL RUNOFF (AC-FT)	327600	465600	462500
10 PERCENT EXCEEDS	1350	1840	1720
50 PERCENT EXCEEDS	229	373	314
90 PERCENT EXCEEDS	155	170	188

e Estimate.

LOCATION.--Lat 43°04'47", long 111°02'12", in SW 1/4 NE 1/4 sec.28, T.36 N., R.119 W., Lincoln County, Hydrologic Unit 17040105, on right bank 3.4 mi northwest of Etna, and 8.0 mi upstream from maximum flowline of Palisades Reservoir.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to current year

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1995, BY WATER YEAR (WY)

	1983	1984	1984	1965	1963	1986	1986	1971	1971	1975	1983	1971
MEAN	617	586	513	445	437	476	948	1690	1419	851	625	641
MAX	912	838	712	583	702	1121	2204	3252	3356	1809	997	961
(WY)	1983	1984	1984	1965	1963	1986	1986	1971	1971	1975	1983	1971
MIN	336	347	342	318	309	362	503	306	275	271	266	342
(WY)	1978	1978	1993	1993	1993	1988	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1954 - 1995	
ANNUAL TOTAL	201753		295480		--	
ANNUAL MEAN	553		810		772	
HIGHEST ANNUAL MEAN	--		--		1266 1986	
LOWEST ANNUAL MEAN	--		--		430 1992	
HIGHEST DAILY MEAN	1510	May 14	2310	Jun 17	5030	Jun 2 1986
LOWEST DAILY MEAN	321	Aug 7	265	Jan 4	180	Jan 7 1971
ANNUAL SEVEN-DAY MINIMUM	330	Aug 2	300	Jan 1	226	May 10 1977
INSTANTANEOUS PEAK FLOW	--	--	2340	Jun 16	5090	Jun 2 1986
INSTANTANEOUS PEAK STAGE	--	--	4.13	Jun 16	5.71	Jun 2 1986
INSTANTANEOUS LOW FLOW	--	--	239	Jan 2	160	Jan 7 1971
ANNUAL RUNOFF (AC-FT)	400200	--	586100	--	559100	--
ANNUAL RUNOFF (CFSM)	--	--	--	--	--	--
ANNUAL RUNOFF (INCHES)	9.05	--	13.26	--	12.65	--
10 PERCENT EXCEEDS	957	--	1710	--	1500	--
50 PERCENT EXCEEDS	459	--	628	--	574	--
90 PERCENT EXCEEDS	363	--	391	--	380	--

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued
(National water-quality assessment station)

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD:

Water temperatures: May 1977 to September 1979, June to September 1993, June to September 1994, June to September 1995 (discontinued).

INSTRUMENTATION.--Temperature recorder May 1977 to Sept. 1979. Temperature recording data logger from June to September 1993, June to September 1994, June to September 1995.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 19.5°C July 16-18, 29, 1979; minimum, 0.0°C on several days during winter.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 16.9°C Aug. 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

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)	OXYGEN, (PER- CENT SATUR- ATION)	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												
05...	1050	462	487	7.8	5.5	7.5	9.1	95	614	250	66	20
NOV												
04...	1115	455	488	8.0	0.0	3.5	13.0	120	619	240	65	19
DEC												
08...	1210	417	505	8.0	-7.0	2.0	12.4	110	626	240	65	19
JAN												
12...	1130	391	489	8.0	-0.5	3.0	10.6	97	617	240	66	19
FEB												
17...	1115	373	529	7.9	4.0	3.0	11.7	106	624	240	65	19
MAR												
17...	1050	650	556	8.0	5.5	5.5	10.3	100	623	250	69	18
APR												
14...	1245	1040	476	7.7	1.0	6.5	9.8	99	615	210	61	15
MAY												
05...	1210	1240	439	8.1	15.0	9.0	10.3	111	612	210	59	15
26...	1230	1720	422	8.2	7.0	8.5	9.4	99	617	210	59	14
JUN												
16...	1300	2220	405	8.1	17.0	11.5	8.4	96	616	190	55	13
27...	1310	1680	424	8.2	19.0	12.5	8.6	99	622	200	57	15

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WAT.DIS FET FIELD HCO3 (MG/L)	CAR- BONATE WAT.DIS FET FIELD CO3 (MG/L)	ALKA- LINITY WAT DIS TOT FET 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)
OCT											
05...	12	10	1.1	240	0	197	37	15	0.1	7.9	276
NOV											
04...	14	11	1.1	240	0	199	39	18	0.1	6.6	292
DEC											
08...	15	12	1.1	240	0	198	39	19	0.1	7.4	300
JAN											
12...	13	10	1.1	240	0	196	37	17	0.1	8.0	283
FEB											
17...	17	13	1.2	240	0	196	39	24	0.2	7.3	307
MAR											
17...	25	18	1.6	240	0	197	38	37	0.1	7.7	331
APR											
14...	18	15	1.2	220	0	184	28	23	0.2	6.5	276
MAY											
05...	14	13	1.2	220	0	182	22	17	0.2	5.7	256
26...	11	10	0.90	220	0	179	22	13	<0.1	7.1	245
JUN											
16...	8.0	8	1.1	210	0	169	22	9.4	0.1	7.3	233
27...	8.7	8	0.80	210	0	171	26	10	0.2	6.8	238

SALT RIVER BASIN

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, SUM OF CONSTITUENTS, 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)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (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											
05...	282	0.38	344	<0.01	1.0	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
NOV											
04...	286	0.40	359	<0.01	0.91	<0.02	<0.2	<0.2	<0.01	<0.01	<0.01
DEC											
08...	289	0.41	338	<0.01	0.96	<0.02	0.2	<0.2	0.02	<0.01	<0.01
JAN											
12...	284	0.38	299	<0.01	1.1	0.03	<0.2	<0.2	0.03	<0.01	<0.01
FEB											
17...	294	0.42	309	<0.01	0.96	<0.02	<0.2	<0.2	0.02	<0.01	<0.01
MAR											
17...	319	0.45	581	<0.01	0.81	0.02	0.3	<0.2	0.11	<0.01	<0.01
APR											
14...	266	0.38	775	<0.01	0.58	<0.02	0.5	<0.2	0.13	<0.01	0.02
MAY											
05...	245	0.35	857	<0.01	0.42	<0.02	<0.2	<0.2	0.03	0.02	0.02
26...	236	0.33	1140	<0.01	0.41	0.02	<0.2	<0.2	0.08	<0.01	0.02
JUN											
16...	219	0.32	1400	<0.01	0.33	0.02	0.4	<0.2	0.16	0.06	0.02
27...	229	0.32	1080	0.01	0.45	0.02	0.2	0.2	0.08	0.02	<0.01

DATE	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL	TRITIUM TOTAL (PCI/L)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT											
05...	4	4	-132	-17.53	75	5.1	0.7	0.3	23	29	57
NOV											
04...	4	3	--	--	--	--	0.6	0.3	6	7.4	88
DEC											
08...	<3	4	--	--	--	--	0.6	0.4	22	25	90
JAN											
12...	<3	5	-133	-17.65	74	5.1	0.6	0.9	36	38	95
FEB											
17...	<3	4	--	--	--	--	0.6	0.4	13	13	91
MAR											
17...	11	11	--	--	--	--	1.3	1.6	48	84	93
APR											
14...	13	8	-129	-17.28	58	4.5	2.0	2.3	132	371	92
MAY											
05...	18	8	--	--	--	--	1.9	1.6	88	295	83
26...	13	7	--	--	--	--	1.5	1.4	98	455	86
JUN											
16...	14	13	--	--	--	--	1.8	2.2	236	1410	83
27...	9	11	-131	-17.52	64	4.5	1.2	1.1	137	621	88

SALT RIVER BASIN

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13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	13.4	10.1	15.9	10.7	14.0	10.3
2	---	---	13.2	9.7	16.4	10.9	14.8	10.7
3	---	---	11.6	9.5	16.5	11.2	15.7	11.4
4	---	---	12.0	8.5	14.9	11.5	13.8	11.7
5	---	---	14.3	8.9	16.0	10.4	14.8	10.3
6	---	---	14.8	10.4	16.7	11.5	14.7	10.6
7	---	---	16.2	11.2	16.7	11.8	14.2	10.3
8	---	---	15.9	11.4	16.2	12.2	14.5	10.6
9	---	---	15.4	11.8	15.9	10.3	13.4	9.4
10	---	---	14.2	11.7	15.4	12.0	13.1	9.9
11	---	---	13.7	11.5	16.9	12.2	13.5	9.2
12	---	---	13.7	10.7	16.5	11.4	13.5	9.1
13	---	---	15.0	10.4	15.7	11.1	13.8	9.1
14	---	---	14.3	10.6	15.7	10.6	14.2	9.7
15	---	---	15.1	10.1	15.9	10.4	13.7	9.4
16	---	---	15.9	10.6	16.2	11.1	13.4	9.4
17	---	---	16.0	10.7	14.8	11.8	---	---
18	---	---	15.1	10.9	15.4	10.6	---	---
19	---	---	13.2	10.7	15.1	9.5	---	---
20	---	---	15.0	10.4	15.6	10.0	---	---
21	---	---	13.8	10.6	14.1	10.9	---	---
22	---	---	14.2	10.3	15.4	10.6	---	---
23	---	---	15.1	10.1	14.5	12.5	---	---
24	---	---	15.0	10.3	14.5	11.2	---	---
25	---	---	16.0	9.9	15.4	11.1	---	---
26	---	---	16.4	11.5	15.9	11.1	---	---
27	---	---	16.7	11.5	15.0	10.4	---	---
28	13.2	9.7	16.4	11.8	15.1	10.3	---	---
29	14.2	9.2	16.7	12.0	15.6	10.6	---	---
30	14.3	10.0	16.2	12.3	15.0	10.0	---	---
31	---	---	15.7	10.7	15.0	9.9	---	---
MONTH	---	---	16.7	8.5	16.9	9.5	---	---

HENRYS FORK BASIN

13046680 BOUNDARY CREEK NEAR BECHLER RANGER STATION, WY

LOCATION.--Lat 44°11'09", long 111°00'19", T.49 N., R.118 W., Teton County, Yellowstone National Park, Hydrologic Unit 17040203, on right bank 0.4 mi upstream from confluence with the Bechler River, 3.8 mi north of the Bechler Ranger Station, and 28.0 mi northeast of Ashton, Idaho.

DRAINAGE AREA.--86.9 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 6,360 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges below 300 ft³/s, which are fair, and all discharges above 300 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	63	66	67	66	61	64	145	265	e200	94	87
2	76	65	64	60	72	61	65	148	266	e195	93	87
3	69	63	66	59	63	64	66	165	274	e225	91	87
4	67	62	68	59	62	63	68	183	277	e245	90	88
5	69	63	65	59	61	62	73	223	270	e210	90	90
6	74	66	64	60	61	61	82	239	295	e180	89	88
7	68	67	64	59	61	61	88	227	280	e175	87	87
8	66	63	62	59	61	60	86	265	249	e195	94	87
9	65	64	61	61	62	60	77	e330	238	e200	90	87
10	64	64	61	60	61	66	73	e370	220	e195	89	87
11	64	63	61	61	60	77	71	e350	207	e185	87	88
12	64	65	62	59	60	79	72	e355	219	e185	86	87
13	63	65	63	60	61	70	81	289	244	e180	85	e84
14	66	63	63	61	61	68	101	278	271	e170	85	e82
15	75	62	63	61	60	68	91	e340	301	e155	85	e83
16	69	64	63	58	60	70	90	e395	e308	e135	85	e83
17	68	63	64	57	61	66	95	e350	e300	e120	96	e82
18	68	62	63	59	62	67	104	335	e290	e110	93	e82
19	67	62	62	59	61	71	109	329	e275	e105	88	e84
20	65	62	61	57	61	67	111	331	e265	e120	87	e87
21	64	63	61	57	63	73	113	326	e260	e110	86	e85
22	64	60	61	57	62	68	119	314	e250	e105	86	e83
23	63	61	62	56	61	66	118	294	e235	e105	94	e83
24	63	63	62	58	62	67	129	289	e220	e100	105	e82
25	63	63	62	58	63	65	139	279	e225	e100	102	e82
26	63	64	62	58	63	64	144	260	e235	e100	106	e80
27	63	63	62	59	62	63	162	242	e245	e98	96	e83
28	63	63	62	59	62	62	181	232	e255	e100	92	e84
29	62	63	63	58	---	62	154	235	e245	e98	90	e83
30	62	64	60	58	---	62	144	244	e220	e96	88	e84
31	62	---	61	61	---	63	---	256	---	e94	87	---
TOTAL	2053	1898	1944	1834	1735	2037	3070	8618	7704	4591	2816	2546
MEAN	66.2	63.3	62.7	59.2	62.0	65.7	102	278	257	148	90.8	84.9
MAX	76	67	68	67	72	79	181	395	308	245	106	90
MIN	62	60	60	56	60	60	64	145	207	94	85	80
AC-FT	4070	3760	3860	3640	3440	4040	6090	17090	15280	9110	5590	5050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	76.6	75.0	71.8	68.8	66.2	68.0	126	263	214	91.1	77.8	75.2
MAX	101	97.9	94.0	88.4	82.8	87.9	215	395	566	148	106	103
(WY)	1985	1985	1985	1985	1986	1986	1990	1993	1986	1995	1986	1986
MIN	61.6	61.9	58.8	58.1	53.7	58.0	68.8	150	83.3	68.1	62.2	59.4
(WY)	1993	1993	1993	1993	1989	1993	1991	1990	1987	1988	1988	1988

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1984 - 1995
ANNUAL TOTAL	32954	40846	--
ANNUAL MEAN	90.3	112	106
HIGHEST ANNUAL MEAN	--	--	157
LOWEST ANNUAL MEAN	--	--	84.4
HIGHEST DAILY MEAN	580	395	810
LOWEST DAILY MEAN	59	56	53
ANNUAL SEVEN-DAY MINIMUM	60	57	53
INSTANTANEOUS PEAK STAGE	--	4.84	5.71
INSTANTANEOUS LOW FLOW	--	56	52
ANNUAL RUNOFF (AC-FT)	65360	81020	77030
10 PERCENT EXCEEDS	171	252	195
50 PERCENT EXCEEDS	67	73	75
90 PERCENT EXCEEDS	62	61	61

e Estimate.

Discharge measurements in the following table were made at special study and miscellaneous sites throughout the State.

Annual maximum discharge at miscellaneous sites during water year 1995

Stream	Tributary to	Location	Drain- age area (sq mi)	Period of Record	Annual Maximum		
					Date	Gage height (feet)	Discharge (cfs)
Platte River basin							
Crow Creek at 5th Street, in Cheyenne	South Platte River	Lat 41°07'20", long 104°48'38", in SE ¹ / ₄ NE ¹ / ₄ SE ¹ / ₄ sec.6, T.13 N., R.66W., Laramie County, Hydrologic Unit 10190009, 15 ft upstream from bridge on 5th Street, in Cheyenne.		1995	06-09-95	6.80	(a)
Crow Creek at Morrie Avenue, in Cheyenne	South Platte River	Lat 41°07'22", long 104°47'40", in NE ¹ / ₄ NW ¹ / ₄ SE ¹ / ₄ sec.5, T.13 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 25 ft upstream from culvert on Morrie Avenue in Cheyenne.		1994-95	06-09-95	11.20	(a)
Dry Creek at Vista Lane, in Cheyenne 06756030	Crow Creek	Lat 41°10'27", long 104°50'31", in NW ¹ / ₄ NE ¹ / ₄ NW ¹ / ₄ sec.24, T.14 N., R.67 W.,Laramie County, Hydrologic Unit 10190009, 15 ft upstream from culvert on Vista Lane in Cheyenne.		1987-95	06-02-95	3.07	(a)
Dry Creek at Smalley Park, in Cheyenne	Crow Creek	Lat 41°10'02", long 104°49'07", in NE ¹ / ₄ NE ¹ / ₄ SW ¹ / ₄ sec.19, T.14 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 20 ft upstream from culvert on Seminole Road in Cheyenne.		1994-95	09-08-95	11.19	(a)
Dry Creek at Windmill Road, in Cheyenne	Crow Creek	Lat 41°09'39", long 104°46'45", in SW ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ sec.21, T.14 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 25 ft upstream from culvert on Windmill Road in Cheyenne.		1994-95	08-01-94 06-02-95	8.63 9.55	64 145
Dry Creek at College Drive, in Cheyenne	Crow Creek	Lat 41°09'26", long 104°45'38", in SE ¹ / ₄ NE ¹ / ₄ NW ¹ / ₄ sec.27, T.14 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 25 ft upstream from culvert on College Drive, in Cheyenne.		1994-95	06-02-95	12.64	(a)
Dry Creek at Rawlins Street, in Cheyenne	Crow Creek	Lat 41°09'11", long 104°45'03", in SW ¹ / ₄ SW ¹ / ₄ NW ¹ / ₄ sec.26, T.14 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 25 ft upstream from culvert on Rawlins Street, in Cheyenne.		1994-95	06-02-95	6.60	(a)
Spread Creek basin							
Spread Creek near Moran 13012500	Snake River	Lat 43°47'27", long 110°32'12", in NW ¹ / ₄ NW ¹ / ₄ SE ¹ / ₄ sec.9, T.44 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, 250 ft upstream from U.S. Highway 191 bridge, 3.9 mi south of Moran, and 26 mi north of Jackson.	101	1917,1918, 1990,1992, 1993#, 1994-95	06-06-95	4.52	939
Flat Creek basin							
Flat Creek near Jackson 13018000	Snake River	Lat 43°33'24", long 110°37'15", in SW ¹ / ₄ NW ¹ / ₄ SW ¹ / ₄ sec.35, T.42 N., R.115 W., Teton County, Hydrologic Unit 17040103, Teton National Forest, 0.1 mi upstream from National Forest boundary and 9 miles northeast of Jackson.	40.1	1989-93#, 1994-95	07-14-95	4.78	307
Flat Creek near Cheney 13018500	Snake River	Lat 43°23'54", long 110°45'19", in SW ¹ / ₄ NE ¹ / ₄ SE ¹ / ₄ sec.28, T.40 N., R.116 W., Teton County, Hydrologic Unit 17040103, on left bank 1.1 mi upstream from mouth, 1.5 mi south of Cheney, and 5.5 mi south of Jackson.	142	1917,1918, 1989-93#, 1994-95	05-13-94 07-12-95	2.94 3.88	151 252

Operated at a continuous-record gaging station.

a Discharge not determined.

Discharge measurements made at miscellaneous sites during water year 1995

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Yellowstone River basin						
Dinwoody Canal 432302109215601	Wind River	Lat 43°23'02", long 109°21'56", in NE ¹ / ₄ SW ¹ / ₄ NW ¹ / ₄ sec.28, T.5 N., R.5 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 600 ft downstream from headgate, 2.7 mi upstream from aqueduct, and 2.7 mi south of Wilderness.		1988-94	5-22-95 6-19-95 8-17-95 9-14-95	103.0 44.6 217 140
Upper Wind River "A" Canal 432609109205001	Wind River	Lat 43°26'09", long 109°20'50", in NW ¹ / ₄ SW ¹ / ₄ SW ¹ / ₄ sec.32, T.5 N., R.4 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 200 ft downstream from headgates and 1.2 mi northeast of Wilderness.		1988-94	7-27-95 8-15-95 9-14-95	46.0 67.0 38.7
Lower Wind River "A" Canal 432208109151401	Wind River	Lat 43°22'08", long 109°15'14", in NW ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ sec.32, T.5 N., R.4 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on right bank 100 ft downstream from headgates and 1.1 mi northeast of Burris.		1989-94	7-27-95 9-14-95	27.6 31.7
Meadow Creek Canal 431744109123001	Wind River	Lat 43°17'44", long 109°12'30", in SW ¹ / ₄ SW ¹ / ₄ NW ¹ / ₄ sec.26, T.4 N., R.4 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on right bank 200 ft below headgates, 1.7 mi upstream from aqueduct, and 1.9 mi southwest of Crowheart.		1989-94	7-27-95 9-14-95	45.6 54.5
Willow Creek Canal 431707109105201	Wind River	Lat 43°17'07", long 109°10'52", in NE ¹ / ₄ NE ¹ / ₄ NW ¹ / ₄ sec.36, T.4 N., R.4 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on right bank 250 ft downstream from headgates, 0.9 mi upstream from left bank ditch, and 1.8 mi southeast of Crowheart.		1988-94	7-27-95 9-14-95	70.2 32.9
Trout Creek below Ray Canal 425850108550701	Little Wind River	Lat 42°58'50", long 108°55'07", in SE ¹ / ₄ NW ¹ / ₄ NE ¹ / ₄ sec.18, T.1 S., R.1 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank 70 ft downstream from Ray Canal, 0.8 mi upstream from Dead Horse Slough, and 1.8 mi southwest of Wind River.		1988-94	7-26-95 9-13-95	40.5 13.9
Ray Canal below Trout Creek 425849108550701	Trout Creek	Lat 42°58'49", long 108°55'07", in SE ¹ / ₄ NW ¹ / ₄ NE ¹ / ₄ sec.18, T.1 S., R.1 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, 180 ft downstream from Trout Creek, and 2.5 mi southwest of Ft. Washakie.		1991-94	7-26-95 9-13-95	183 26.1
Coolidge Canal below Trout Creek 430045108480001	Little Wind	Lat 43°00'45", long 108°48'00", in SE ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ sec.31, T.1 N., R.1 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank 0.4 mi upstream from bridge on light-duty road, 0.9 mi downstream from Trout Creek, and 1.6 mi southwest of Ethete.		1989-94	9-15-95	54.0
37-C Lateral 425716108520401	Little Wind River	Lat 42°57'16", long 108°52'04", in SW ¹ / ₄ SE ¹ / ₄ SW ¹ / ₄ sec.22, T.1 S., R.1 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on right bank at headgate, 1.1 mi upstream from crossing on unimproved dirt road, and 2.4 mi southeast of Wind River.		1988-94	8-07-95 9-15-95	40.5 3.54

Discharge measurements made at miscellaneous sites during water year 1995

Stream	Tributary to	Location	Drainage area (sq mi)	Measured pre- viously (water years)	Measurements	
					Date	Discharge (cfs)
Yellowstone River basin--Continued						
Ray Reservoir Outlet 425713108485601	Little Wind River	Lat 42°57'13", long 108°48'56", in SE ¹ / ₄ SE ¹ / ₄ SE ¹ / ₄ sec 24, T.1 S., R.1 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank 400 ft downstream from Ray Reservoir, 0.9 mi upstream from Mill Creek, and 4.1 mi southeast of Wind River.		1989-94	6-20-95 7-20-95 7-26-95 9-05-95	0 0 0 0
Ray Canal at siphon 425709108521201	Little Wind River	Lat 42°57'09", long 108°52'12", in NE ¹ / ₄ NW ¹ / ₄ NW ¹ / ₄ sec.27, T.1 S., R.1 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on right bank at Siphon, 0.2 mi downstream from 37-C Lateral, and 2.5 mi southeast of Wind River		1988-94	8-02-95 9-15-95	124 3.24
Mill Creek below Coolidge Canal 425710108460701	Little Wind River	Lat 42°57'10", long 108°46'07", in NW ¹ / ₄ NE ¹ / ₄ NW ¹ / ₄ sec.28, T.1 S., R.1 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on right bank 100 ft downstream from Coolidge Canal, and 6.2 mi southeast of Wind River.		1988-94	7-24-95 9-15-95	44.0 8.86
14-B Lateral below Mill Creek 425955108405301	Little Wind River	Lat 42°59'55", long 108°40'53", in SE ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ sec.6, T.1 S., R.2 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, 150 ft downstream from headworks, 500 ft upstream from culvert on 17-Mile Road, and 5 mi southeast of Ethete.		1991-94	7-26-95 9-15-95	47.8 28.9
Mill Creek below 14-B Lateral 425956108405201	Little Wind River	Lat 42°59'56", long 108°40'52", in SE ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ sec.6, T.1 S., R.2 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, 60 ft downstream from 14-B Lateral Headworks, 2.1 mi upstream from mouth, and 5 mi southeast of Ethete.		1991-94	7-26-95 9-15-95	13.3 16.6
65-C Lateral at Headworks 425515108485401	Little Wind River	Lat 42°55'15", long 108°48'54", in NE ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ sec.1, T.2 S., R.1 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank at headgate, 1.1 mi upstream from crossing on light-duty road, and 3.4 mi northwest of Milford.		1991-94	6-20-95 7-20-95 9-07-95	22.9 63.7 46.3
65-C-19 Lateral at Headworks 425524108465701	Coolidge Canal	Lat 42°55'24", long 108°46'57", in NW ¹ / ₄ NW ¹ / ₄ NE ¹ / ₄ sec.5, T.2 S., R.1 E., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, 2.35 ft downstream from headworks, 0.6 mi east of U.S. Highway 287, and 33 mi north of Milford.		1991-94	7-24-95 9-12-95	39.2 29.6
Ray Canal below 65 "C" Lateral 425513108485801	Little Wind River	Lat 42°55'13", long 108°48'58", in NE ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ sec.1, T.2 S., R.1 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank 400 ft downstream from 65-C Lateral, 0.9 mi upstream from crossing on unimproved dirt road, and 3.4 mi northwest of Milford.		1988-94	6-20-95 7-20-95 9-07-95	12.4 13.2 18.9
Sub Agency Canal at Auxillary Gage 425857108352101	Little Wind River	Lat 42°58'57", long 108°35'21", in NE ¹ / ₄ NE ¹ / ₄ NW ¹ / ₄ sec.13, T.1 S., R.2 E., Fremont County, Hydrologic Unit 10080002, Wind Rivr Indian Reservation, on right bank 0.1 mi downstream from State Highway 137, 1.7 mi downstream from headgates, and 5.3 mi northeast of Arapahoe.		1988-94	5-11-95 6-21-95 8-02-95 9-11-95	21.2 33.0 107 80.5

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1995

Stream	Tributary to	Location	Drainage area (sq mi)	Measured pre- viously (water years)	Measurements	
					Date	Discharge (cfs)
Platte River basin						
Eagle Creek near Alcova	North Platte River	Lat 42°33'42", long 106°43'19", in SE ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ sec.13, T.30 N., R.83 W., Natrona County, Hydrologic Unit 10180007, at Wyoming State Route 220, 1,400 ft upstream from mouth, and 30 mi southwest of Casper.	22.4		7-27-95	9,590
Snake River basin						
Spread Creek near Moran 13012500	Snake River	Lat 43°47'27", long 110°32'12", in NW ¹ / ₄ NW ¹ / ₄ SE ¹ / ₄ sec.9, T.44 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, 250 ft upstream from U.S. Highway 191 bridge, 3.9 mi south of Moran, and 26 mi north of Jackson.	101	1917, 1918, 1990-92, 1993#, 1994	05-23-95 06-07-95	151 365
Hoback River near mouth 431718110390501	Snake River	Lat 43°17'18", long 110°39'05", in NE ¹ / ₄ SW ¹ / ₄ NW ¹ / ₄ sec.4, T.38 N., R.115 W. Teton County, Hydrologic Unit 17040103, Teton National Forest, 2,000 ft downstream from Poison Creek, 0.5 mmi south of U.S. Highway 187 at Camp Davis access road, and 4.7 mi southwest of Hoback Junction.			07-13-95	2,730
Lake Creek near Wilson 433247110491701	Fish Creek	Lat 43°32'47", long 110°49'17", in SW ¹ / ₄ SW ¹ / ₄ NW ¹ / ₄ sec.6, T.41 N., R.116 W., Teton County, Hydrologic Unit 17040103, at bridge on State Highway 390, 2.8 miles south of Teton Village, and 4.1 mi northeast of Wilson.			06-21-94 06-29-94 07-13-94 07-21-94 09-13-94 09-28-94 10-21-94 06-22-95	160 132 103 130 37.3 18.3 7.92 242
Flat Creek near Jackson 13018000	Snake River	Lat 43°33'24", long 110°37'15", in SW ¹ / ₄ NW ¹ / ₄ SW ¹ / ₄ sec.35, T.42 N., R.115 W., Teton County, Hydrologic Unit 17040103, Teton National Forest, 0.1 mi upstream from forest boundary and 9 mi notheast of Jackson.	40.1	1933-41, 1989-93#, 1994	06-16-95	185
Flat Creek near Cheney 13018500	Snake River	Lat 43°23'54", long 110°45'19", in SW ¹ / ₄ NE ¹ / ₄ SE ¹ / ₄ sec.28, T.40 N., R.116 W., Teton County, Hydrologic Unit 17040103, 1.1 mi upstream from mouth, 1.5 mi south of Cheney, and 5.5 mi south of Jackson.	142	1917, 1918, 1989-93#, 1994	06-21-95	166

Operated as a continuous-record gaging station.

FREMONT COUNTY WEED AND PEST DISTRICT STUDY

YELLOWSTONE RIVER BASIN

425008108445401 SQUAW CREEK AT SMITH STREET, AT LANDER, WY (LAT 42 50 08 LONG 108 44 54)

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR- BID- ITY (NTU) (00076)
NOV 10...	1425	5.9	1.5
FEB 08...	1350	4.0	1.6
MAY 11...	0940	18	140
JUN 08...	1245	10	110
JUL 12...	1425	6.7	2.5
AUG 10...	1125	5.2	8.2
SEP 09...	0950	5.0	5.8

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	TUR- BID- ITY (NTU) (00076)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	DICAMBA TOTAL (UG/L) (82052)
NOV 07...	1115	4.9	990	4.0	8.0	1.4	754	<0.01
FEB 01...	1315	4.1	973	0.0	11.0	12	768	<0.01
MAY 15...	1340	18	675	15.0	24.0	50	455	<0.02
JUN 13...	1130	98	490	11.0	24.5	92	311	0.14
JUL 20...	1040	21	763	14.0	23.0	17	524	0.36
AUG 14...	1015	11	881	12.0	19.0	5.4	600	--

DATE	PIC- LORAM UNFILT RECOVER (UG/L) (39720)	2,4-D, TOTAL (UG/L) (39730)	2, 4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)
NOV 07...	0.22	<0.01	<0.01	<0.01	<0.01	--	--
FEB 01...	0.17	0.08	<0.01	<0.01	<0.01	233	2.6
MAY 15...	0.54	<0.01	<0.01	<0.01	<0.01	503	24
JUN 13...	0.57	0.23	<0.01	<0.01	<0.01	906	240
JUL 20...	0.33	0.63	<0.01	<0.01	<0.01	230	13
AUG 14...	--	--	--	--	--	124	3.7

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

KENDRICK IRRIGATION STUDY

PLATTE RIVER BASIN

423338106441601 CASPER CANAL AT ALCOVA, WY (LAT 42 33 38 LONG 106 44 16)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
JUL 17...	1520	191	463	8.3	11.0	24.0	630	9.7	170	46	14	26
SEP 05...	1730	239	471	8.5	21.0	27.0	628	7.2	180	48	14	27

DATE	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	ALKA- LINITY LAB (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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SELE- NIUM, TOTAL (UG/L AS SE)
JUL 17...	0.9	2.9	2	145	123	128	97	7.6	0.4	12	280	<1
SEP 05...	0.9	2.7	11	128	123	130	100	8.1	0.4	13	287	<2

06642000 NORTH PLATTE RIVER AT ALCOVA, WY (LAT 42 34 27 LONG 106 42 31)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
DEC 14...	1455	517	466	8.3	1.5	-4.0	628	14.1	170	46	14	27
MAR 13...	1350	411	471	8.7	5.5	11.0	630	14.0	180	47	14	28
MAY 16...	1030	510	455	8.2	10.0	23.0	625	11.0	180	49	14	28
JUL 17...	1250	881	463	8.3	13.0	24.0	635	10.2	180	47	14	27
SEP 05...	1325	1670	470	8.1	18.0	26.0	635	8.0	180	48	14	27

DATE	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	ALKA- LINITY LAB (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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SELE- NIUM, TOTAL (UG/L AS SE)
	(00931)	(00935)	(00452)	(00453)	(39086)	(90410)	(00945)	(00940)	(00950)	(00955)	(70301)	(01147)
DEC 14...	30.9	2.8	0	162	133	123	100	8.7	0.3	14	292	<1
MAR 13...	0.9	2.7	8	128	119	125	99	8.6	0.4	14	285	<1
MAY 16...	0.9	2.9	0	139	114	128	98	9.0	0.4	12	282	<1
JUL 17...	0.9	2.7	0	172	141	128	97	7.9	0.4	12	293	<1
SEP 05...	0.9	2.8	0	146	120	128	100	8.5	0.4	13	285	<1

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

424352106374401 POISON SPRING CREEK ABOVE RASMUS LEE LAKE, NEAR GOOSE EGG, WY (LAT 42 43 52 LONG 106 37 44)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
MAR 14...	0930	0.73	2060	8.4	3.5	11.5	634	9.8	370	89	36	330
MAY 16...	0910	1.4	2890	8.2	13.0	14.5	624	8.6	620	140	65	460
JUL 18...	1200	0.06	2440	8.5	24.5	24.5	628	8.6	420	81	52	400
SEP 06...	0835	0.09	2460	8.1	15.0	15.5	632	6.4	430	99	45	440

DATE	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	ALKA- LINITY LAB (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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SELE- NIUM, TOTAL (UG/L AS SE)
	(00931)	(00935)	(00452)	(00453)	(39086)	(90410)	(00945)	(00940)	(00950)	(00955)	(70301)	(01147)
MAR 14...	7	5.8	2	497	412	397	680	23	1.8	21	1430	<1
MAY 16...	8	8.4	0	564	462	481	1200	36	1.9	24	2210	<1
JUL 18...	9	5.4	22	412	374	371	920	29	1.7	13	1730	<1
SEP 06...	9	6.1	0	503	412	413	880	40	1.9	21	1780	<1

424411106365101 UNNAMED SEEP NEAR RASMUS LEE LAKE SOUTH END, NEAR CASPER, WY (LAT 42 44 11 LONG 106 36 51)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT 03...	0900	0.01	1970	7.7	6.0	-1.0	625	6.8	940	280

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)
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ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

424429106363201 UNNAMED SEEP NEAR RASMUS LEE LAKE EAST END, NEAR CASPER, WY (LAT 42 44 29 LONG 106 36 32)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT 03...	0955	0.03	1740	8.2	1.0	-1.0	625	9.8	690	180
DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CAC03) (39086)	ALKA-LINITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT 03...	59	150	2	6.5	0	328	269	264	690	
DATE	TIME	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
OCT 03...	22	1.2	16	1290	<0.01	<0.05	0.02	0.03	<1	

424430106370601 RASMUS LEE LAKE NEAR CASPER, WY (N-1/2 COMPOSITE) (LAT 42 44 30 LONG 106 37 06)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT 07...	1400	40500	8.9	13.5	16.0	624	4.2	13000	430	2900
NOV 07...	1000	31500	8.6	7.5	16.0	621	6.9	9600	390	2100
DATE	TIME	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CAC03) (39086)	ALKA-LINITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT 07...	11000	42	96	156	267	495	510	34000	1100	
NOV 07...	8200	36	75	60	397	425	--	24000	800	

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

424430106370601 RASMUS LEE LAKE NEAR CASPER, WY (N-1/2 COMPOSITE) (LAT 42 44 30 LONG 106 37 06)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	SELE- NIUM, DIS- TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT 07...	0.9	3.3	49800	0.47	2.9	0.59	0.05	--	--
NOV 07...	1.1	1.4	35800	--	--	--	--	--	75

424435106370301 RASMUS LEE LAKE NEAR GOOSE EGG, WY (LAT 42 44 35 LONG 106 37 03)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)
SEP 07...	0945	42100	9.4	13.0	13.0	633	3.0	14000	480	3000	11000	41

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LITY LAB AS CACO3 (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, DIS- TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
SEP 07...	120	264	91	515	436	35000	1200	0.8	0.3	51100	120	110

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

424423106363801 RASMUS LEE LAKE NEAR ISLAND ON EAST END, NEAR GOOSE EGG, WY (LAT 42 44 23 LONG 106 36 38)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM ADSORPTION RATIO (00931)
OCT 21...	0840	28000	9.2	5.0	6.5	625	8.9	7000	320	1500	6800	35
NOV 22...	0750	38700	8.7	0.0	-2.0	635	8.8	12000	390	2600	8200	33
DEC 12...	1015	47300	8.6	0.0	3.0	625	4.9	16000	530	3500	13000	45
JAN 19...	0850	34400	8.6	0.0	-5.5	630	0.9	8700	350	1900	9800	46
FEB 23...	0800	9690	9.0	0.0	5.0	632	7.9	2000	160	380	1800	18
MAR 14...	1445	27500	8.3	18.0	14.0	631	11.2	8000	390	1700	6900	34
APR 20...	1030	34200	9.4	7.0	6.0	615	17.0	9600	370	2100	8400	37
MAY 16...	1340	17400	9.2	18.0	22.0	621	9.8	4000	180	850	3500	24
JUN 13...	1130	15900	9.3	25.0	24.0	626	15.7	4100	160	900	3500	24
JUL 17...	1015	24200	10.1	20.0	22.0	631	7.4	6200	160	1400	5100	28
AUG 18...	0815	34200	9.4	16.0	17.5	629	1.2	10000	400	2300	8400	36
SEP 07...	0920	42400	9.4	13.0	13.0	633	3.5	14000	510	3200	11000	40

DATE	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3) (39086)	ALKALINITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)
OCT 21...	67	120	183	350	384	20000	720	0.8	0.8	29600	98	--
NOV 22...	95	78	531	565	634	29000	1000	0.9	1.6	41600	130	--
DEC 12...	130	132	708	800	821	39000	1300	0.9	2.7	57900	130	--
JAN 19...	70	108	537	620	577	27000	880	0.8	5.7	40400	83	--
FEB 23...	19	46	149	198	197	5200	180	0.4	4.8	7860	390	--
MAR 14...	59	24	788	686	709	21000	670	0.8	9.1	31100	170	150
APR 20...	78	204	214	515	533	26000	920	0.8	0.3	38200	420	--
MAY 16...	33	89	132	256	268	11000	370	0.6	0.2	16100	380	--
JUN 13...	35	62	138	217	281	10000	340	0.8	0.2	15100	260	--
JUL 17...	53	116	30	219	242	17000	590	0.4	0.2	24400	180	210
AUG 18...	84	144	124	342	422	26000	910	0.7	1.5	38300	120	24
SEP 07...	120	264	91	515	444	35000	1200	0.8	0.3	51300	120	110

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

424330106364301 WILLOW CREEK ABOVE POISON SPRING CREEK NEAR BESSEMER BEND, WY (LAT 42 43 30 LONG 106 36 43)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	
MAR 14...	1410	0.16	3050	8.2	9.5	16.5	634	8.8	790	150	100	420	
DATE	TIME	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)
MAR 14...	7	10	0	513	421	424	1300	32	1.0	32	2300	2	

424334106364201 POISON SPRING CREEK ABOVE CONFLUENCE WITH WILLOW CREEK, NEAR CASPER, WY
(LAT 42 43 34 LONG 106 36 42)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
DEC 12...	1325	0.08	3310	8.0	1.0	5.0	627	9.4	720	150	83	540
MAR 14...	1145	0.80	2290	8.4	7.0	12.0	635	10.4	420	90	47	380
MAY 16...	1450	1.8	3500	8.3	19.5	19.5	625	9.4	670	130	84	580
JUL 18...	0815	0.19	2040	8.3	17.0	18.0	631	5.6	430	78	58	320
DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)
DEC 12...	9	9.0	0	549	450	451	1400	37	1.4	30	2520	5
MAR 14...	8	6.4	2	461	382	371	820	25	1.6	22	1620	8
MAY 16...	10	9.6	24	490	442	458	1500	46	1.8	21	2640	25
JUL 18...	7	7.0	0	344	282	290	760	25	1.0	12	1430	3

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

424521106363801 GOOSE LAKE NEAR WEST END, NEAR GOOSE EGG, WY (LAT 42 45 21 LONG 106 36 38)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)
SEP 07...	1245	25300	9.1	18.5	17.0	632	0.2	7500	26	1800	6200	31

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L AS (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
SEP 07...	61	324	476	930	929	17000	1000	0.7	1.1	26600	140	120

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

424509106361801 GOOSE LAKE NEAR EAST END, NEAR GOOSE EGG, WY (LAT 424509 LONG 106 36 18)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE	PH WATER WHOLE FIELD (STAND- ARD	TEMPER- ATURE WATER (DEG C)	TEMPER- ATURE AIR (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	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 AD- SORP- TION RATIO	
		(US/CM) (00095)	(UNITS) (00400)	(DEG C) (00010)	(DEG C) (00020)	(00025)	(00300)	(00900)	(00915)	(00925)	(00930)	(00931)	
OC													
21...	1020	23600	9.4	6.0	10.5	625	10.0	6000	81	1400	5300	30	
NOV													
22...	0900	25200	9.3	0.0	-2.0	635	14.0	6300	62	1500	5800	32	
DEC													
12...	1120	26600	9.3	2.0	4.0	625	10.1	7200	82	1700	6300	32	
JAN													
19...	1000	19900	9.3	0.0	-1.0	629	8.7	5500	64	1300	4500	26	
FEB													
23...	0910	3050	9.9	0.0	5.0	633	>20.0	480	12	110	500	10	
MAR													
13...	1430	23900	9.1	6.0	--	626	9.3	6400	95	1500	5200	28	
APR													
20...	1130	23100	9.3	7.0	7.0	615	14.0	6600	150	1500	5000	27	
MAY													
16...	0935	21400	9.4	14.0	15.0	622	6.1	5600	100	1300	4500	26	
JUN													
13...	0930	20800	9.2	20.5	24.0	626	18.0	6500	110	1500	4600	25	
JUL													
17...	0840	24100	10.2	17.0	14.0	630	8.8	7100	30	1700	5000	26	
AUG													
18...	0940	25300	9.6	17.0	16.0	628	2.7	7700	120	1800	5500	27	
SEP													
07...	1220	25200	9.1	18.5	17.0	632	0.4	6800	71	1600	6200	33	
DATE		POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT													
21...	11	312	427	870	857	15000	1000	0.8	1.7	23300	180	--	--
NOV													
22...	57	276	531	895	936	17000	1200	0.8	1.7	26200	190	--	--
DEC													
12...	69	312	574	990	981	17000	1200	0.9	1.9	26900	180	180	180
JAN													
19...	43	216	452	730	724	13000	780	0.7	1.4	20100	190	--	--
FEB													
23...	6.0	31	54	96	97	1300	110	0.2	<0.1	2100	86	--	--
MAR													
13...	56	197	544	774	888	15000	1000	0.8	1.6	23300	<1	--	--
APR													
20...	54	288	459	856	843	16000	1100	0.7	0.1	24300	460	--	--
MAY													
16...	48	300	318	761	843	14000	950	0.8	0.5	21400	--	310	310
JUN													
13...	47	154	434	612	780	13000	820	0.9	0.2	20400	380	--	--
JUL													
17...	56	371	137	730	794	15000	960	0.6	0.3	23200	310	500	500
AUG													
18...	57	372	337	896	903	17000	1100	0.7	0.6	26100	190	210	210
SEP													
07...	61	324	476	930	929	17000	1000	0.7	1.1	26500	140	120	120

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

424317106355501 POISON SPRING CREEK ABOVE AQUEDUCT, NEAR ALCOVA, WY (LAT 42 43 17 LONG 106 35 55)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
DEC 12...	1630	0.46	3640	8.4	0.0	0.0	626	12.1	810	160	100	560
MAR 15...	0900	0.87	3100	8.5	6.5	15.0	630	18.4	690	140	83	520
MAY 17...	0940	2.4	3410	8.1	12.0	10.5	621	8.6	730	140	93	590
JUL 18...	0945	0.43	3440	8.2	17.0	24.5	632	7.1	750	120	110	510
SEP 06...	1105	0.24	3580	8.2	16.0	18.0	635	6.7	840	170	100	490

DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CaCO3 (39086)	ALKA- LINITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)
DEC 12...	9	9.8	24	488	440	394	1600	39	1.2	29	2760	39
MAR 15...	9	8.6	17	467	411	413	1300	34	1.5	23	2360	29
MAY 17...	9	9.7	0	552	452	466	1500	44	1.6	22	2670	31
JUL 18...	8	8.8	0	505	414	421	1500	38	1.4	21	2560	30
SEP 06...	7	9.1	0	532	436	435	1600	38	1.3	23	2690	59

06643100 POISON SPRING CREEK NEAR ALCOVA, WY (LAT 42 42 55 LONG 106 34 43)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)
DEC 13...	1015	0.74	4350	8.1	1.0	3.5	626	12.1	930
MAR 15...	1055	1.3	3640	8.4	7.0	--	630	12.6	740
MAY 16...	1205	3.7	3660	8.2	15.5	19.5	625	11.3	750
JUL 18...	1015	0.31	4200	8.1	16.5	23.5	632	6.9	780
SEP 06...	1035	0.33	4400	8.0	15.0	21.0	635	7.6	840

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

06643100 POISON SPRING CREEK NEAR ALCOVA, WY (LAT 42 42 55 LONG 106 34 43)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
DEC 13...	190	110	730	10	10	0	555	455
MAR 15...	150	88	620	10	8.3	17	503	440
MAY 16...	150	90	630	10	10	20	506	449
JUL 18...	130	110	680	11	9.9	0	561	460
SEP 06...	180	94	770	12	8.4	0	536	439

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
DEC 13...	459	2000	54	1.4	25	3390	46	37
MAR 15...	437	1600	45	1.5	18	2800	37	30
MAY 16...	457	1600	46	1.6	21	2820	42	41
JUL 18...	471	1900	54	1.6	19	3180	28	37
SEP 06...	468	2000	56	1.6	21	3390	31	34

06643510 NORTH PLATTE RIVER ABOVE POISON SPIDER CREEK, NEAR GOOSE EGG, WY (LAT 42 46 18 LONG 106 31 48)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER FIELD (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
DEC 13...	1430	725	555	8.2	1.0	1.0	625	12.0	200	55	16	33
MAR 13...	1545	561	517	8.1	5.5	9.5	632	10.0	190	52	14	32
MAY 15...	1430	896	535	8.1	17.0	14.0	625	10.2	210	58	15	33
JUL 18...	1145	980	503	8.6	24.0	33.0	634	11.5	180	49	15	28
SEP 06...	1530	1860	490	8.5	18.0	20.5	639	9.2	190	51	15	29

DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)
DEC 13...	1	3.0	0	167	137	132	130	9.4	0.3	13	342	2
MAR 13...	1	3.2	0	160	131	120	120	8.7	0.3	12	321	3
MAY 15...	1	3.2	0	174	143	124	130	7.9	0.3	13	346	2
JUL 18...	0.9	2.9	6	144	128	132	110	8.4	0.4	11	302	1
SEP 06...	0.9	2.8	4	148	127	132	110	9.3	0.4	13	307	1

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

06644000 POISON SPIDER CREEK NEAR GOOSE EGG, WY (LAT 42 46 44 LONG 106 31 46)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
DEC 13...	0845	12	3040	8.0	3.0	3.0	627	11.3	980
MAR 15...	1330	18	2930	8.1	12.5	19.0	631	8.7	880
MAY 17...	1150	63	2230	8.0	13.0	16.0	627	9.1	680
JUL 18...	0830	13	2980	8.2	16.0	20.5	634	8.2	950
SEP 06...	0825	21	2310	8.1	14.0	19.0	639	8.1	770

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
DEC 13...	210	110	380	5	8.8	0	388	318
MAR 15...	200	92	390	6	8.8	0	397	325
MAY 17...	150	74	300	5	9.4	0	318	261
JUL 18...	200	110	390	5	9.0	0	421	345
SEP 06...	170	83	280	4	7.1	0	366	300

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
DEC 13...	315	1300	64	0.7	14	2280	42	38
MAR 15...	315	1200	76	0.8	12	2170	36	41
MAY 17...	272	970	61	0.7	14	1740	15	14
JUL 18...	318	1300	73	0.7	12	2300	50	50
SEP 06...	301	940	43	0.6	14	1720	47	42

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

06644040 OREGON TRAIL DRAIN NEAR GOOSE EGG, WY (LAT 42 49 41 LONG 106 24 51)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
DEC 12...	1645	0.64	5080	8.2	0.0	1.0	630	13.7	2100	360	300	550
MAR 14...	0850	1.7	4760	8.5	4.0	9.5	638	10.9	1900	290	280	380
MAY 17...	1505	3.6	5260	8.4	17.5	--	630	8.2	1900	240	320	700
JUL 18...	1450	7.8	1430	8.3	24.0	24.0	632	6.9	480	88	64	130
SEP 07...	0840	10	1220	8.3	15.0	14.5	638	8.2	430	93	47	98

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
DEC 12...	5	9.6	0	598	490	466	2700	84	1.1	17	4320	250
MAR 14...	4	7.4	48	361	376	341	2500	80	1.0	7.8	3770	210
MAY 17...	7	13	17	472	415	396	2900	120	1.0	5.2	4550	340
JUL 18...	3	4.3	6	238	205	194	550	22	0.6	12	994	18
SEP 07...	2	4.3	0	254	208	209	410	21	0.5	14	813	18

424913106225601 SQUAW CREEK AT MOUTH, NEAR CASPER, WY (LAT 42 49 13 LONG 106 22 56)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
MAY 15...	1145	2.1	314	7.9	13.0	19.5	631	8.1	120	32	9.0	13
JUL 17...	1410	1.8	412	8.5	19.0	22.0	636	7.6	160	44	12	17
SEP 05...	1500	0.76	444	8.5	19.0	27.0	636	7.5	--	--	--	--
DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
MAY 15...	0.5	1.8	0	104	85	88	54	3.6	0.2	12	177	15
JUL 17...	0.6	1.4	12	154	146	146	65	3.0	0.2	13	243	2
SEP 05...	--	--	5	183	158	--	--	--	--	--	--	<1

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

424813106224701 WOLF CREEK AT MOUTH, AT CASPER, WY (LAT 42 48 13 LONG 106 22 47)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
DEC 13...	1030	0.62	1000	8.4	5.0	6.0	629	11.3	390	95	37	68
MAR 15...	0835	0.40	975	8.3	6.0	7.0	635	10.8	390	96	36	67
MAY 15...	1400	6.6	338	7.9	13.0	26.0	631	8.2	120	27	12	19
JUL 17...	1155	2.2	510	8.5	14.0	25.0	637	8.4	200	50	18	24
SEP 05...	1240	1.2	642	8.3	15.0	25.0	636	8.8	270	67	24	34

DATE	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	ALKA- LINITY LAB (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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)
	(00931)	(00935)	(00452)	(00453)	(39086)	(90410)	(00945)	(00940)	(00950)	(00955)		
DEC 13...	1	2.0	11	368	320	273	230	13	0.3	13	650	8
MAR 15...	1	1.7	0	376	308	267	210	13	0.3	13	622	8
MAY 15...	0.8	1.7	0	116	94	97	61	2.7	0.2	12	193	1
JUL 17...	0.7	1.4	48	154	206	194	72	4.7	0.3	15	309	3
SEP 05...	0.9	1.6	0	293	240	241	100	7.3	0.3	15	393	4

425014106210901 - GARDEN CREEK ABOVE MOUTH, AT CASPER, WY (LAT 42 50 14 LONG 106 21 09)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
DEC 13...	1255	0.86	2780	8.7	0.0	3.0	628	13.4	990	150	150	300
MAR 14...	1755	2.2	1880	8.6	9.0	12.0	635	10.1	650	110	92	180
MAY 15...	1545	23	754	8.1	13.0	20.5	631	8.4	250	46	34	57
JUL 17...	1605	4.5	1370	8.7	19.0	25.5	637	8.3	500	85	70	110
SEP 06...	1445	0.52	3390	8.6	22.0	27.0	640	15.8	1300	190	200	400

	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	ALKA- LINITY LAB (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, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)
DATE	(00931)	(00935)	(00452)	(00453)	(39086)	(90410)	(00945)	(00940)	(00950)	(00955)		
DEC 13...	4	3.3	19	356	324	314	1200	75	0.3	12	2080	13
MAR 14...	3	2.7	24	270	261	236	720	51	0.3	9.4	1320	8
MAY 15...	2	2.0	0	146	120	128	220	16	0.2	13	460	2
JUL 17...	2	2.6	29	242	246	246	470	31	0.3	16	933	5
SEP 06...	5	4.2	26	339	322	294	1700	79	0.4	5.7	2770	21

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

425950106333301 CASPER CANAL AT ENDPOINT, NEAR ILLCO, WY (LAT 42 59 50 LONG 106 33 33)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
JUL 18...	1400	2.8	670	8.4	24.0	24.5	624	6.7	240	60	21	47
SEP 06...	1055	41	494	8.5	20.0	16.0	688	6.9	190	52	15	29

DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)
JUL 18...	1	4.4	0	181	148	155	170	9.8	0.5	12	414	1
SEP 06...	0.9	3.2	5	146	128	134	110	8.3	0.3	12	306	<1

430157106304701 - NORTH FORK CASPER CREEK NEAR BUCKNUM, WY (LAT 43 01 57 LONG 106 30 47)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	
FEB 24...	0900	20	750	7.9	1.0	10.0	632	10.7	190	52	15	71	
DATE	TIME	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)
FEB 24...	2	7.9	0	96	79	74	230	34	0.2	6.0	463	1	

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

430018106300201 ILLCO SEEP NEAR OUTLET, NEAR ILLCO, WY (LA 43 00 18 LONG 106 30 02)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)
OCT												
21...	1320	4180	8.6	9.0	15.0	625	12.3	1200	180	180	580	7
NOV												
22...	1315	3990	8.1	3.0	-1.0	636	18.4	1600	250	240	450	5
DEC												
12...	1435	4220	8.0	0.0	2.5	625	19.5	1700	260	250	470	5
JAN												
19...	1310	3750	8.0	0.0	1.5	630	9.3	1500	230	220	420	5
FEB												
23...	1235	2320	8.4	1.0	9.0	635	16.1	630	89	99	270	5
MAR												
14...	0930	3980	8.3	5.0	11.0	634	13.6	1400	220	210	440	5
APR												
20...	1445	4600	8.4	9.0	8.5	620	13.3	1700	240	270	550	6
MAY												
17...	0920	5340	8.0	13.0	--	628	4.8	1800	220	310	740	8
JUN												
13...	1425	4620	8.6	27.5	24.0	626	15.3	1600	160	290	670	7
JUL												
17...	1450	10600	9.4	28.5	30.0	632	7.4	3800	360	700	1600	11
AUG												
18...	1230	4730	8.2	22.0	17.0	630	2.8	2000	270	320	580	6
SEP												
06...	0755	1230	8.0	16.5	15.0	688	4.0	410	80	50	94	2

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LITY LAB AS (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT												
21...	10	36	305	310	311	2200	38	0.6	1.7	3380	6	--
NOV												
22...	8.6	0	500	410	426	2000	170	1.0	11	3380	9	--
DEC												
12...	9.1	0	488	400	421	2200	35	0.9	6.6	3470	16	15
JAN												
19...	7.8	0	478	392	392	1900	35	0.8	8.0	3060	6	--
FEB												
23...	7.4	14	168	162	156	1100	21	0.4	3.8	1690	2	--
MAR												
14...	8.2	13	337	298	303	2100	42	0.6	0.7	3200	8	6
APR												
20...	10	36	330	330	326	2600	53	0.6	5.6	3930	7	--
MAY												
17...	11	0	353	289	303	3000	50	0.5	4.5	4510	5	3
JUN												
13...	8.6	44	167	211	203	2600	35	0.6	2.1	3890	3	--
JUL												
17...	20	53	--	74	66	6900	100	0.5	8.4	9730	3	4
AUG												
18...	15	0	373	306	305	2700	44	0.8	27	4140	13	10
SEP												
06...	4.9	0	176	144	192	460	12	0.5	17	805	3	2

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

4258401063138 SOUTH FORK CASPER CREEK ABOVE INLET TO THIRTY-THREE MILE REERVOIR NEAR ILLCO, WY
(LAT 42 58 40 LONG 106 31 38)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
DEC 13...	1300	0.25	9280	7.9	1.0	3.0	622	11.6	1700
MAR 15...	0845	1.8	5790	8.4	5.0	12.0	630	10.0	980
MAY 17...	0945	10	2830	8.0	11.0	14.5	625	9.5	530
JUL 18...	0925	0.24	9680	8.0	18.0	18.0	629	6.0	2500
SEP 05...	1300	0.60	2560	8.4	21.0	28.0	689	13.9	670

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
DEC 13...	400	160	1600	17	9.5	0	586	480
MAR 15...	160	140	1100	15	6.6	11	408	352
MAY 17...	100	68	440	8	6.3	0	212	174
JUL 18...	280	440	1600	14	10	0	525	430
SEP 05...	120	89	360	6	8.1	22	251	242

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
DEC 13...	464	4300	110	0.6	8.6	6880	97	92
MAR 15...	355	2900	72	0.8	6.1	4600	17	--
MAY 17...	176	1300	30	0.5	7.3	2060	6	6
JUL 18...	443	5600	120	0.7	3.0	8310	42	--
SEP 705...	257	1100	38	0.5	14	1880	9	--

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

425818106302701 THIRTY-THREE MILE RESERVOIR NEAR OUTLET, NEAR ILLCO, WY (LAT 42 58 18 LONG 106 30 27)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)
OCT												
21...	1435	2400	8.1	9.5	9.0	625	10.0	470	90	59	380	8
NOV												
22...	1430	4640	8.6	3.0	-1.0	636	18.3	1300	190	190	770	9
DEC												
12...	1545	7020	8.2	0.0	2.5	626	20.0	2200	380	300	1100	10
JAN												
19...	1420	7860	8.1	0.0	2.0	630	9.1	2300	390	320	1300	12
FEB												
23...	1340	704	8.4	2.0	10.0	634	11.2	110	27	11	99	4
MAR												
14...	1100	5000	8.3	6.0	11.5	634	11.2	1200	190	170	500	6
APR												
20...	1550	7640	8.9	8.0	9.0	620	15.1	1800	260	290	1300	13
MAY												
17...	1305	2760	8.1	14.0	16.5	623	7.0	570	98	79	420	8
JUN												
13...	1525	2070	8.2	24.5	23.5	626	7.6	450	78	61	330	7
JUL												
17...	1600	8170	9.3	25.5	26.0	630	16.5	1800	200	320	1400	14
AUG												
18...	1350	1850	8.8	19.0	20.5	634	13.0	480	83	66	240	5
SEP												
05...	1450	1950	8.7	23.0	26.0	689	10.7	540	100	71	240	4

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
OCT												
21...	6.0	0	190	156	153	1100	23	0.4	5.9	1760	8	--
NOV												
22...	7.0	24	275	265	275	2700	56	0.5	6.5	4080	22	--
DEC												
12...	11	0	482	395	390	3900	75	0.6	7.0	6010	52	53
JAN												
19...	8.7	0	559	458	459	4500	90	0.5	6.4	6890	71	--
FEB												
23...	5.1	0	112	92	96	230	6.5	0.3	5.9	440	4	--
MAR												
14...	7.2	0	328	269	275	2500	52	0.5	6.0	3590	20	18
APR												
20...	9.4	48	214	255	236	4800	96	0.4	1.4	6910	49	--
MAY												
17...	6.3	0	201	165	172	1300	27	0.5	6.9	2040	10	9
JUN												
13...	5.9	0	187	153	161	890	23	0.5	6.3	1490	7	--
JUL												
17...	11	46	73	136	138	4800	110	0.5	<0.1	6920	37	36
AUG												
18...	8.5	19	186	184	185	760	24	0.4	6.3	1300	8	9
SEP												
05...	7.4	22	168	174	181	840	25	0.4	7.3	1400	12	11

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

425818106293401 SOUTH FORK CASPER CREEK BELOW THIRTY-THREE MILE RESERVOIR, NEAR CASPER, WY
(LAT 42 58 18 LONG 106 29 34)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
DEC 12...	1220	0.85	6520	8.0	1.0	4.0	627	13.7	2000
MAR 15...	1000	3.2	5030	8.2	8.0	15.0	630	11.2	1300
MAY 17...	1200	14	2660	7.7	13.0	15.0	625	7.6	590
JUL 18...	1045	0.73	7110	8.0	18.0	24.0	630	9.6	1900
SEP 05...	1650	3.8	2300	8.3	21.0	24.0	688	6.6	690

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
DEC 12...	350	270	1000	10	9.1	0	498	408
MAR 15...	220	180	860	10	7.1	0	353	289
MAY 17...	110	77	390	7	6.2	0	220	180
JUL 18...	270	300	1100	11	8.9	0	342	280
SEP 05...	130	88	280	5	7.7	0	246	202

DATE	ALKA- LITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
DEC 12...	391	3600	72	0.5	7.9	5550	36	30
MAR 15...	292	2600	55	0.5	6.2	4100	25	21
MAY 17...	178	1200	27	0.5	7.2	1930	9	9
JUL 18...	285	4100	86	0.5	2.5	6040	12	21
SEP 05...	218	1000	28	0.5	7.9	1660	12	11

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

KENDRICK IRRIGATION STUDY--Continued

PLATTE RIVER BASIN--Continued

06644500 CASPER CREEK AT CASPER, WY (LAT 42 50 52 LONG 106 21 52)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
DEC 13...	1540	12	5380	8.4	0.0	3.5	629	11.1	1600
MAR 14...	1230	23	5370	8.4	10.0	14.0	638	9.3	1600
MAY 17...	1625	143	2050	7.9	16.5	19.0	627	6.9	570
JUL 18...	1450	16	5160	8.3	27.0	33.5	635	7.2	1500
SEP 06...	1500	19	3600	8.4	23.5	23.0	639	7.3	920

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
DEC 13...	290	220	820	9	8.8	0	442	362
MAR 14...	260	230	860	9	8.6	0	420	344
MAY 17...	110	72	290	5	6.8	0	223	185
JUL 18...	220	220	750	9	9.5	0	383	314
SEP 06...	170	120	380	5	5.8	19	298	276

DATE	ALKA- LITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
DEC 13...	336	2800	79	0.6	11	4450	55	62
MAR 14...	328	2600	79	0.6	7.8	4250	100	98
MAY 17...	184	960	31	0.4	7.5	1590	26	21
JUL 18...	289	2700	74	0.6	8.3	4170	47	50
SEP 06...	275	1800	53	0.6	9.9	2700	40	24

KENDRICK STUDY IRRIGATION--Continued

PLATTE RIVER BASIN--Continued

06645000 NORTH PLATTE RIVER BELOW CASPER, WY (LAT 42 51 40 LONG 106 12 53)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
DEC 14...	1000	704	764	8.1	0.5	1.0	632	12.1	250
MAR 14...	1350	535	937	8.3	8.0	16.0	638	9.6	290
MAY 16...	1430	1580	878	8.0	14.0	15.0	630	10.3	260
JUL 17...	0810	970	720	8.1	18.0	17.0	640	7.5	240
SEP 07...	1045	1840	580	8.5	16.0	22.0	638	9.0	200

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
DEC 14...	63	23	59	2	3.7	0	182	149
MAR 14...	70	29	86	2	3.9	0	205	168
MAY 16...	63	26	86	2	4.4	0	183	150
JUL 17...	58	22	53	2	3.1	0	159	130
SEP 07...	52	17	38	1	3.1	7	134	122

DATE	ALKA- LITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
DEC 14...	148	220	14	0.4	13	485	4	<1
MAR 14...	143	290	17	0.4	12	609	7	6
MAY 16...	134	290	15	0.3	11	586	5	8
JUL 17...	147	210	14	0.4	11	450	3	4
SEP 07...	138	140	11	0.4	13	348	2	--

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

STREAMFLOW AND SEDIMENT SAMPLING

YELLOWSTONE RIVER BASIN

44280210937290 NORTH FORK SHOSHONE RIVER AT WAPITI CAMPGROUND BRIDGE, NEAR WAPITI, WY
(LAT 44 28 02 LONG 109 37 29)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)			STREAM WIDTH (FT) (00004)	STREAM DEPTH, MEAN (FT) (00064)	STREAM VELOC-ITY, MEAN (F/S) (00055)	TEMPER-ATURE WATER (DEG C) (00010)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	
JUN											
	01...	1335	2670	179	2.4	6.06	11.0	--	--		
	01...	1425	2670	179	2.4	6.06	11.0	--	--		
	01...	1515	2670	--	--	--	11.0	190	1370		
	01...	2115	3530	179	2.9	6.84	11.0	--	--		
	01...	2155	3530	179	2.9	6.84	11.0	--	--		
	01...	2210	3530	--	--	--	9.0	707	6740		
	02...	0210	3500	179	2.9	6.79	5.0	--	--		
	02...	0250	3500	179	2.9	6.79	5.0	--	--		
	02...	0320	3500	--	--	--	5.0	567	5360		
	02...	0700	3100	179	2.7	6.39	5.0	--	--		
	02...	0740	3100	179	2.7	6.39	5.0	--	--		
	02...	0810	3100	--	--	--	5.0	286	2390		
		DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	STREAM WIDTH (FT) (00004)	TEMPER-ATURE WATER (DEG C) (00010)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/DAY) (80225)	NUMBER OF SAM-PLING POINTS (COUNT) (00063)	SAMPLER TYPE (CODE) (84164)	SAM-PLING METHOD, CODES (82398)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)
JUN											
	01...	1335	2670	179	11.0	195.5	22	1100	1000	0.2	0.4
	01...	1425	2670	179	11.0	254.8	22	1100	1000	0.2	0.3
	01...	1515	2670	--	11.0	--	--	--	--	--	--
	01...	2115	3530	179	11.0	593.8	22	1100	1000	0.1	0.2
	01...	2155	3530	179	11.0	560.8	22	1100	1000	0.2	0.3
	01...	2210	3530	--	9.0	--	--	--	--	--	--
	02...	0210	3500	179	5.0	459.8	22	1100	1000	0.1	0.3
	02...	0250	3500	179	5.0	552.8	22	1100	1000	0.2	0.4
	02...	0320	3500	--	5.0	--	--	--	--	--	--
	02...	0700	3100	179	5.0	277.6	22	1100	1000	0.2	0.3
	02...	0740	3100	179	5.0	225.2	22	1100	1000	0.2	0.4
	02...	0810	3100	--	5.0	--	--	--	--	--	--
		BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM (80174)	BED MAT. SIEVE DIAM. % FINER THAN 128 MM (80175)	BAG MESH SIZE BEDLOAD SAMPLER (MM) (30333)
JUN											
	01...	1325	22	46	57	62	67	71	72	100	--
	01...	1425	10	19	23	25	26	30	45	100	--
	01...	2115	6.5	14	19	22	25	30	63	100	--
	01...	2155	11	22	31	41	53	66	100	--	--
	02...	0210	13	25	31	35	38	44	53	69	100
	02...	0250	13	25	31	35	39	44	48	100	--
	02...	0700	22	48	58	64	68	74	85	100	--
	02...	0740	25	54	68	75	82	93	100	--	--

STREAMFLOW AND SEDIMENT SAMPLING--Continued

YELLOWSTONE RIVER BASIN--Continued

442744109313301 NORTH FORK SHOSHONE RIVER AT COUNTY ROAD 6BU BRIDGE, NEAR WAPITI, WY
(LAT 44 27 44 LONG 109 31 33)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
JUN					
01...	1500	2600	9.0	852	5980
01...	2105	3180	8.0	620	5320
02...	0240	3640	6.5	1810	17800
02...	0735	3160	--	1580	13500

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

WIND RIVER INDIAN RESERVATION STUDY

YELLOWSTONE RIVER BASIN

425646108473901 UNNAMED DRAW TO MILL CREEK ON ETHETE ROAD, NEAR FORT WASHAKIE, WY (LAT 42 56 46 LONG 108 47 39)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00301)
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MAY 01...	1000	0.49	12800	8.5	6.0	6.0	626	14.2	146
AUG 28...	1005	<0.10	1330	7.6	19.0	15.0	629	5.6	68

DATE	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
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MAY 01...	2700	260	500	2600	22	20	354	8100	90
AUG 28...	330	56	46	180	4	3.0	191	510	2.4

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
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MAY 01...	0.3	6.1	13100	11800	30	10	0.3	16
AUG 28...	0.2	11	918	923	16	6	<0.1	<5

425730108461201 MCCASKEY DRAIN ABOVE COOLIDGE CANAL, NEAR WIND RIVER, WY (LAT 42 57 30 LONG 108 46 12)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (MG/L) (00301)
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MAY 01...	1230	<0.10	4720	8.0	8.0	10.0	626	9.2	102
AUG 28...	1200	1.0	1060	7.6	20.0	18.0	630	5.9	76

DATE	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
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MAY 01...	2300	400	320	410	4	13	380	2900	24
AUG 28...	520	110	60	36	0.7	3.2	157	430	3.0

WIND RIVER INDIAN RESERVATION STUDY--Continued

YELLOWSTONE RIVER BASIN--Continued

425730108461201 MCCASKEY DRAIN ABOVE COOLIDGE CANAL, NEAR WIND RIVER, WY--Continued
(LAT 42 57 30 LONG 108 46 12)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
MAY 01...	0.7	11	4830	4310	19	14	<0.1	<5
AUG 28...	0.2	12	792	749	68	27	<0.1	<5

425808108435601 MILL CREEK UNNAMED TRIBUTARY BELOW PLUNKETT ROAD, NEAR ETHETE, WY
(LAT 42 58 08 LONG 108 43 56)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE OF HG (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (MG/L AS SE) (00301)
MAY 01...	1535	1.1	2180	8.4	11.0	8.0	625	12.1	126
AUG 28...	1550	1.3	1130	8.3	17.0	19.0	630	9.6	126

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAY 01...	760	140	100	210	3	8.3	388	820	19
AUG 28...	470	99	54	70	1	4.0	318	280	4.6

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
MAY 01...	1.1	16	1700	1550	28	120	<0.1	7
AUG 28...	0.7	21	764	724	26	54	<0.1	<5

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

WIND RIVER INDIAN RESERVATION STUDY--Continued

YELLOWSTONE RIVER BASIN--Continued

06230500 LITTLE WIND RIVER NEAR ARAPAHOE, WY (LAT 42 58 58 LONG 108 35 54)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)
MAY 04...	1520	170	1320	8.4	18.0	14.0	634	8.6	102
AUG 31...	0920	67	618	8.2	15.0	16.5	639	8.8	108

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAY 04...	460	96	54	120	2	4.9	175	520	11
AUG 31...	250	61	24	32	0.9	2.2	139	170	5.0

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
MAY 04...	0.5	11	1020	922	7	54	<0.1	<5
AUG 31...	0.3	6.3	390	384	6	9	<0.1	<5

425722108425101 SHARPNOSE DRAW ABOVE COOLIDGE CANAL, NEAR ETHETE, WY (LAT 42 57 22 LONG 108 42 51)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)
MAY 02...	1020	0.05	4890	8.3	11.0	10.0	622	12.1	134
AUG 29...	1015	0.01	4110	8.0	17.5	16.0	632	9.9	123

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAY 02...	1100	280	100	830	11	7.8	363	2400	43
AUG 29...	1600	400	150	500	5	7.1	277	2200	46

WIND RIVER INDIAN RESERVATION STUDY--Continued

YELLOWSTONE RIVER BASIN--Continued

425722108425101 SHARPNOSE DRAW ABOVE COOLIDGE CANAL, NEAR ETHETE, WY (LAT 42 57 22 LONG 108 42 51)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
MAY 02...	1.3	9.2	4210	3890	16	320	<0.1	<5
AUG 29...	0.9	21	3670	3490	12	53	<0.1	<5

425718108424201 SHARPNOSE POND NEAR ETHETE, WY (LAT 42 57 18 LONG 108 42 42)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED OF (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)
MAY 02...	0850	--	366	9.2	9.5	9.0	620	10.4	111
AUG 28...	1900	--	380	10.2	21.0	24.0	630	14.0	203

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAY 02...	150	33	16	14	0.5	3.1	76	99	3.7
AUG 28...	120	23	16	20	0.8	4.0	61	110	4.0

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
MAY 02...	0.3	0.3	244	215	31	5	<0.1	<5
AUG 28...	0.3	0.9	220	215	5	2	<0.1	<5

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

WIND RIVER INDIAN RESERVATION STUDY--Continued

YELLOWSTONE RIVER BASIN--Continued

425801108414501 SHARPNOSE DRAW NEAR R1E/R2E BOUNDARY, ABOVE UNNAMED TRIBUTARY, NEAR ETHETE, WY
(LAT 42 58 01 LONG 108 41 45)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)
MAY 02...	1240	0.08	5800	8.6	12.0	11.0	626	12.0	136
AUG 29...	1255	1.4	470	8.8	29.0	24.0	630	10.9	158

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB AS CACO3 (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
MAY 02...	1400	250	180	960	11	9.7	268	3100	48
AUG 29...	170	40	17	30	1	3.0	112	130	4.1

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
MAY 02...	0.8	1.2	5160	4710	<9	31	<0.1	11
AUG 29...	0.2	12	307	304	48	6	<0.1	<5

425837108404401 SHARPNOSE DRAW ABOVE GOOSE POND DRAIN, BELOW SEEPS, NEAR ETHETE, WY
(LAT 42 58 37 LONG 108 40 44)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)
MAY 02...	1520	0.17	7580	8.4	15.0	14.0	627	12.1	147
AUG 29...	1535	4.8	615	8.5	24.0	23.0	633	8.2	116

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB AS CACO3 (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
MAY 02...	2000	310	300	1400	14	16	324	4200	62
AUG 29...	220	51	23	40	1	4.5	155	160	4.6

WIND RIVER INDIAN RESERVATION STUDY--Continued

YELLOWSTONE RIVER BASIN--Continued

425837108404401 SHARPNOSE DRAW ABOVE GOOSE POND DRAIN, BELOW SEEPS, NEAR ETHETE, WY--Continued
(LAT 42 58 37 LONG 108 40 44)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
MAY 02...	0.5	2.1	7320	6490	30	190	<0.1	49
AUG 29...	0.3	16	402	392	50	17	<0.1	<5

425905108401001 GOOSE POND NEAR ETHETE, WY (LAT 42 59 05 LONG 108 40 10)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)
MAY 03...	1715	--	1250	8.4	9.0	14.0	631	10.2	120
AUG 30...	0925	--	1310	9.2	17.0	20.0	636	7.5	100

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAY 03...	490	89	65	83	2	7.8	151	500	11
AUG 30...	460	64	74	100	2	5.4	67	630	8.7

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
MAY 03...	0.6	0.8	934	848	18	8	<0.1	<5
AUG 30...	0.6	2.9	970	926	<3	3	<0.1	<5

42582110808390301 GOOSE POND DRAIN NEAR ETHETE, WY (42 58 51 LONG 108 39 03)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)
MAY 03...	1515	0.54	7000	8.3	10.0	16.0	631	10.0	126

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

WIND RIVER INDIAN RESERVATION STUDY--Continued

YELLOWSTONE RIVER BASIN--Continued

425821108390301 GOOSE POND DRAIN NEAR ETHETE, WY (LAT 42 58 51 LONG 108 39 03)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAY 03...	3000	320	540	900	7	17	289	4200	130

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
MAY 03...	0.3	8.0	7580	6290	30	30	<0.1	<5

425828108384001 SHARPNOWSE DRAW ABOVE 68B LATERAL, NEAR ETHETE, WY (LAT 42 58 28 LONG 108 38 40)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)
MAY 04...	1130	1.1	4520	8.3	17.0	12.0	633	9.2	105
AUG 30...	1250	5.4	650	8.5	20.0	19.0	637	9.8	127

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAY 04...	1300	210	190	650	8	10	249	2400	67
AUG 30...	240	55	26	48	1	4.4	164	170	5.7

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
MAY 04...	0.5	9.8	4100	3690	<9	390	<0.1	11
AUG 30...	0.2	16	426	424	28	17	<0.1	<5

WIND RIVER INDIAN RESERVATION STUDY--Continued

YELLOWSTONE RIVER BASIN--Continued

425850108355001 SHARPNOW DRAW NEAR MOUTH, NEAR ARAPAHOE, WY (LAT 42 58 50 LONG 108 35 55)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
MAY 04...	1350	1.9	3620	8.2	18.0	12.0	635	9.2	104
AUG 30...	1505	11	1030	8.1	21.0	17.0	638	6.8	85

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAY 04...	1000	170	140	510	7	9.0	220	1800	53
AUG 30...	370	81	40	78	2	4.3	222	320	9.5

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
MAY 04...	0.5	9.1	3110	2820	<9	89	<0.1	15
AUG 30...	0.4	15	703	681	21	28	<0.1	<5

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

WIND RIVER INDIAN RESERVATION STUDY--Continued

YELLOWSTONE RIVER BASIN--Continued

425849108353801 LITTLE WIND RIVER BELOW SHARPNOSE DRAW, NEAR ARAPAHOE, WY (LAT 42 58 49 LONG 108 35 38)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED OF (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION) (00301)
MAY 04...	1710	172	1420	8.4	18.0	14.0	633	8.7	102
AUG 31...	1100	78	682	8.2	15.0	17.5	640	9.3	116

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAY 04...	470	97	56	120	2	4.9	177	520	12
AUG 31...	270	63	27	39	1	2.4	150	200	5.6

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)
MAY 04...	0.5	10	1060	927	8	56	<0.1	<5
AUG 31...	0.4	6.6	443	434	6	17	<0.1	<5

GROUND-WATER LEVELS

349

GOSHEN COUNTY

414348104101301. Local number, 20-061-03dad01.

LOCATION.--Lat 41°43'48", long 104°10'13", in NE¹/₄ SE¹/₄ NE¹/₄ sec.3, T.20 N., R.61 W., Hydrologic Unit 10180012.

Owner: State of Wyoming.

AQUIFER.--White River Formation or Group.

WELL CHARACTERISTICS.--Depth of well, 100 ft.

DATUM.--Elevation of land-surface datum is 4,470 ft above sea level, from topographic map. Measuring point: top of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.85 ft below land-surface datum, June 19, 1983; lowest, 25.74 ft below land-surface datum, Jan. 13-17, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.36	24.05	24.66	24.97	24.96	24.64	24.12	23.74	23.03	22.36	22.06	22.42
10	23.49	24.20	24.73	25.01	24.89	24.55	24.07	23.64	22.91	22.31	---	22.53
15	23.64	24.31	24.81	25.02	24.84	24.48	23.99	23.51	22.75	22.25	22.04	22.63
20	23.75	24.41	24.91	25.01	24.79	24.42	23.95	23.39	22.67	22.18	22.11	22.74
25	23.86	24.50	24.94	25.00	24.75	24.34	23.87	23.28	22.53	22.12	22.18	22.78
EOM	23.96	24.60	24.96	24.98	24.71	24.23	23.81	23.15	22.46	22.07	22.31	22.84

WTR YR 1995 HIGHEST 22.04 AUG 7-16 LOWEST 25.02 JAN 15

LARAMIE COUNTY

410111104223102. Local number, 12-063-15aaa02.

LOCATION.--Lat 41°01'11", long 104°22'31", in NE¹/₄ NE¹/₄ NE¹/₄ sec.15, T.12 N., R.63 W., Hydrologic Unit 10190009.

Owner: U. S. Geological Survey.

AQUIFER.--White River Formation or Group.

WELL CHARACTERISTICS.--Drilled unused water-table observation well, steel casing, diameter about 6.5 in, depth 110 ft, factory slotted perforations 86-110 ft.

DATUM.--Elevation of land-surface datum is about 5,384 ft above sea level, from topographic map. Measuring point: top of casing, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--June 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.11 ft, below land-surface datum, Apr. 30, 1974; lowest, 46.28 ft, below land-surface datum, Sept. 7, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	33.37	29.95	28.02	---	25.14	24.21	23.59	23.29	23.12	21.74	26.62	28.96
10	32.63	29.56	27.72	---	24.94	24.11	23.96	23.25	22.94	21.96	26.95	29.30
15	31.99	29.20	27.43	---	24.78	24.12	23.91	23.35	22.67	22.58	26.71	29.22
20	31.44	28.88	27.18	---	24.67	23.91	23.67	24.02	22.81	23.25	26.95	29.70
25	30.95	28.53	26.89	---	24.46	23.75	23.50	23.65	22.38	24.06	27.32	28.64
EOM	30.37	28.27	---	25.30	24.39	23.60	23.49	23.36	22.10	25.37	28.14	28.03

WTR YR 1995 HIGHEST 21.69 JUL 7 LOWEST 33.96 OCT 1

411210104452001 Local number, 14-066-10aba01.

LOCATION.--Lat 41°12'10", long 104°45'20", in NE¹/₄ NW¹/₄ NE¹/₄ sec.10, T.14 N., R.66 W., Hydrologic Unit 10190015.

Owner: State of Wyoming.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Depth of well, 190 ft.

DATUM.--Elevation of land-surface datum is about 6,230 ft above sea level, from topographic map. Measuring point: top of casing, 1.40 ft above land-surface datum.

PERIOD OF RECORD.--April 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 125.82 ft below land-surface datum, Feb. 13, 1979; lowest, 133.03 ft below land-surface datum, Aug. 31, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	131.98	132.03	132.09	131.52	132.13	131.68	131.86	131.88	131.77	132.07	132.73	132.76
10	132.35	132.14	132.20	131.85	131.76	131.85	131.85	132.07	132.10	132.50	132.70	132.58
15	131.74	132.23	132.00	131.61	131.57	132.09	131.86	131.95	131.95	132.48	132.66	132.49
20	132.30	131.96	132.07	132.14	132.22	131.79	131.70	132.07	132.00	132.46	132.87	132.46
25	132.40	131.95	132.05	132.02	131.92	131.72	131.88	132.00	132.13	132.55	132.75	132.32
EOM	132.15	132.17	132.04	131.93	132.09	131.97	131.87	132.03	132.20	132.86	133.03	132.16

WTR YR 1995 HIGHEST 131.31 FEB 14 LOWEST 133.03 AUG 31

GROUND-WATER LEVELS

NIOBRARA COUNTY

424244104202001. Local number, 32-062-32bbb01.

LOCATION.--Lat 42°42'44", long 104°20'20", in NW¹/₄ NW¹/₄ NW¹/₄ sec.32, T.32 N., R.62 W., Hydrologic Unit 10150002.

Owner: Richard Pfister.

AQUIFER.--Tertiary Miocene, Arikaree group.

WELL CHARACTERISTICS.--Drilled unused water-table well, 12 in. diameter, galvanized casing, depth 485 ft, cased top 25 ft.

DATUM.--Elevation of land-surface datum is about 4,898 ft above sea level, from topographic map. Measuring point: bottom edge of recorder shelf, 3.0 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 20.93 ft below land-surface datum, June 10, 1970; lowest, 38.48 ft below land-surface datum, Aug. 19, 1990.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.99	34.85	34.59	34.28	34.13	33.88	33.68	33.50	33.33	33.36	33.50	33.63
10	35.02	34.79	34.53	34.29	34.07	33.88	33.67	33.50	33.36	33.26	33.66	33.66
15	34.94	34.75	34.50	34.26	34.03	33.84	33.63	33.45	33.30	33.25	33.62	33.61
20	34.98	34.69	34.46	34.27	34.02	33.79	33.58	33.45	33.29	33.26	33.58	33.59
25	34.95	34.64	34.43	34.20	33.96	33.78	33.57	33.41	33.27	33.23	33.74	33.57
EOM	34.88	34.65	34.40	34.16	33.99	33.73	33.55	33.38	33.25	33.47	33.68	33.57

WTR YR 1995 HIGHEST 33.25 JUN 31 LOWEST 35.08 OCT 3

PLATTE COUNTY

420613105024401. Local number, 25-068-31aaa01.

LOCATION.--Lat 42°06'13", long 105°02'44", in NE¹/₄ NE¹/₄ NE¹/₄ sec.31, T.25 N., R.68 W., Hydrologic Unit 10180011.

Owner: State of Wyoming.

AQUIFER.--Arikaree Formation.

WELL CHARACTERISTICS.--Depth of well, 400 ft.

DATUM.--Elevation of land-surface datum, 5,242 ft above sea level, from topographic map. Measuring point: top of casing, 1.50 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 20.13 ft below land-surface datum, Nov. 19, 1986; lowest, 35.04 ft below land-surface datum, Aug. 30, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.15	29.91	29.31	28.80	28.84	28.65	28.76	29.84	28.24	27.58	29.76	32.70
10	31.98	29.82	29.22	28.89	28.76	28.69	28.91	29.87	28.15	27.87	29.60	32.53
15	31.08	29.68	29.15	28.78	28.74	28.78	28.91	29.52	27.88	28.70	29.64	31.49
20	30.96	29.51	29.14	28.94	28.85	28.70	29.12	29.37	27.79	28.89	30.12	30.32
25	30.40	29.37	29.06	28.86	28.71	28.79	29.73	29.00	27.73	29.29	30.79	29.87
EOM	30.05	29.35	29.07	28.78	28.83	28.81	30.09	28.60	27.59	29.71	32.02	29.41

WTR YR 1995 HIGHEST 27.46 JUL 3 LOWEST 32.83 SEP 7

TETON COUNTY

433059110511802. Local number, 41-117-14bdc02.

LOCATION.--Lat 43°30'59", long 110°51'18", in SW¹/₄ SE¹/₄ NW¹/₄ sec.14, T.41 N., R.117 W., Hydrologic Unit 17040103.

Owner: Skip Wright-Clark.

AQUIFER.--Holocene alluvium.

WELL CHARACTERISTICS.--Depth of well, 20 ft.

DATUM.--Elevation of land-surface datum is 6,180 ft above sea level, from topographic map. Measuring point: top of casing, 1.20 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest recorded water level, 1.61 ft below land-surface datum, July 13, 1995; lowest recorded, 8.36 ft below land-surface datum, Jan. 6-10, 1995.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Highest water level for the day, from digital recorder

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.69	---	8.14	8.33	7.44	7.71	6.26	6.86	2.14	1.86	---	---
10	5.53	---	8.13	8.33	7.55	7.85	6.35	6.18	1.78	1.69	---	---
15	6.40	---	8.17	8.19	7.83	6.66	6.71	5.31	2.02	1.89	---	---
20	6.56	---	8.22	8.09	8.01	5.93	7.03	3.18	2.05	1.78	---	---
25	---	---	8.28	8.12	7.92	6.08	7.19	2.13	1.79	2.02	---	---
EOM	---	8.13	8.30	8.22	7.77	6.78	7.15	2.08	1.81	---	---	---

WTR YR 1995 HIGHEST 1.61 JUL 13 LOWEST 8.36 JAN 6-10

433517110493001. Local number, 42-117-24dab01.

LOCATION.--Lat 43°35'17", long 110°49'30", in NW¹/₄ NE¹/₄ SE¹/₄ sec.24, T.42 N., R.117 W., Hydrologic Unit 17040103.

Owner: Snake River Ranch.

AQUIFER.--Holocene alluvium.

WELL CHARACTERISTICS.--Depth of well, 30 ft.

DATUM.--Elevation of land-surface datum is 6307.92 above sea level by survey. Measuring point: top of casing, 1.00 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.28 ft below land-surface datum, June 29, 1995; lowest observed, 24.52 ft below land-surface datum, Jan. 20, 1995.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.36	---	22.84	---	---	---	19.53	17.76	8.34	3.85	5.80	8.52
10	18.90	---	23.41	---	---	23.64	17.62	17.59	5.83	3.36	6.09	9.71
15	19.41	---	---	---	---	22.91	17.24	17.37	5.03	3.61	6.76	13.57
20	19.74	---	---	24.52a	---	21.77	17.27	16.94	3.65	5.52	7.80	15.13
25	---	---	---	---	---	20.57	17.56	16.18	3.80	6.07	8.06	16.35
EOM	---	22.85	---	---	---	20.23	17.81	13.49	3.30	5.99	8.26	17.23

WTR YR 1995 HIGHEST 3.28 JUN 29 LOWEST 24.52a JAN 20

a Observed water level.

GROUND WATER LEVELS

Teton County

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER-LEVEL DATE	WATER LEVEL (FEET)
433715110392801	42-115-09bdb01	111ALVM	6590	--	07-23-92	21.93
					07-14-93	19.84
					06-05-94	18.31
					09-12-94	25.59
					06-05-95	13.70
433932110430801	43-116-25cca01	111ALVM	6455	49	07-28-95	15.89
					05-31-89	9.87
					09-06-89	10.19
					05-31-90	10.17
					09-04-90	10.34
					06-04-91	9.19
					09-04-91	10.49
					06-03-92	9.39
					09-10-92	10.60
					06-02-93	9.15
					09-08-93	10.20
					06-01-94	9.51
					09-07-94	10.47
					10-26-94	12.20
					06-02-95	9.24
					07-25-95	9.30
433939110424001	43-116-25dbd01	111ALVM	6460	48.6	09-08-88	15.39
					05-31-89	14.14
					09-06-89	14.13
					05-31-90	15.98
					09-04-90	14.28
					06-04-91	12.12
					09-04-91	14.69
					06-03-92	12.94
					09-10-92	14.70
					06-02-93	12.89
					07-14-93	13.12
					09-08-93	14.19
					06-01-94	12.69
					09-07-94	14.49
					10-26-94	16.58
					06-02-95	12.37
					07-25-95	13.26
433939110425601	43-116-25caa01	111ALVM	6462	42.8	09-08-88	14.84
					05-31-89	13.40
					09-06-89	13.62
					05-31-90	14.47
					09-04-90	12.79
					06-04-91	12.51
					09-04-91	13.98
					06-03-92	12.71
					09-10-92	14.18
					06-02-93	12.34
					07-12-93	13.18
					09-08-93	13.62
					06-01-94	12.81
					09-07-94	13.95
					10-26-94	15.90
					06-02-95	12.47
					07-25-95	12.69
434142110440101	43-116-14abc01	111ALVM	6620	160	06-03-89	38.98
					09-06-89	37.71
					06-02-90	61.50
					09-06-90	42.48
					06-04-91	60.48
					09-04-91	40.13
					06-03-92	62.16
					07-22-92	39.33
					09-13-92	50.15
					06-02-93	40.75
					07-12-93	35.92
					09-12-93	37.17
					06-05-94	39.70
					09-11-94	48.84
					06-05-95	66.23
					07-28-95	5.18
					07-28-95	57.57

GROUND WATER LEVELS

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Teton County--Continued

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
434216110440301	43-116-11dbc01	111ALVM	6660	88	07-21-92	30.13
					07-12-93	11.56
					09-12-93	29.80
					06-04-94	20.46
					09-11-94	48.78
					06-05-95	28.25
					07-28-95	7.85
434234110434401	43-116-11adb01	111ALVM	6685	151	07-23-92	38.14
					09-12-93	37.33
					06-04-94	25.76
					09-11-94	58.54
					06-05-95	34.92
					07-13-95	5.87
					07-28-95	9.87
434438110433701	44-116-26ddd01	111ALVM	6770	95	07-21-92	46.31
					06-02-93	52.20
					07-12-93	26.97
					09-11-93	67.75
					06-04-94	67.52
					09-11-94	93.09
					06-05-95	77.03
					07-28-95	35.24
434458110433101	44-116-26daa01	111ALVM	6795	250	09-06-89	107.58
					06-02-90	133.25
					09-06-90	122.33
					06-04-91	119.05
					09-04-91	115.45
					06-03-92	107.48
					06-03-92	107.25
					07-23-92	112.4
					09-13-92	130.67
					06-02-93	100.52
					07-12-93	81.87
					09-11-93	104.99
					06-04-94	107.40
					09-11-94	130.30
					06-05-95	119.28
					07-28-95	79.63
434700110424501	44-116-13abd01	111ALVM	6900	--	09-09-89	222.35
					06-01-90	218.10
					09-06-90	209.84
					06-04-91	221.69
					09-04-91	210.79
					06-04-92	217.44
					09-13-92	219.25
					06-02-93	240.93
434700110424501	44-116-13abd01	111ALVM	6900	--	07-12-93	233.91
					09-12-93	218.21
					06-04-94	218.58
					09-12-94	215.25
					06-05-95	231.62
					07-28-95	221.19
434904110364701	45-115-36cac01	111ALVM	6880	119	09-04-90	114.06
					06-04-91	dry
					09-04-91	114.09
					06-03-92	118.08
					09-09-92	dry
					06-02-93	dry
					09-08-93	dry
					06-01-94	dry
					09-09-94	dry
					10-26-94	dry
					06-02-95	dry
					07-25-95	dry

GROUND WATER LEVELS

Teton County--Continued

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER-LEVEL DATE	WATER LEVEL (FEET)
434920110365601	45-115-36bcd01	111ALVM	6880	119	09-08-88	112.15
					05-31-89	114.36
					09-08-89	116.07
					05-31-90	116.74
					09-04-90	117.12
					06-04-91	114.30
					09-04-91	115.31
					06-03-92	116.22
					09-09-92	116.08
					09-10-92	115.98
					06-02-93	115.80
					07-13-93	105.39
					09-08-93	116.10
					09-12-93	115.25
					06-01-94	115.41
					06-02-94	115.33
					06-03-94	115.20
					06-04-94	115.25
					09-07-94	115.42
					09-09-94	115.40
434920110370801	45-115-36bcc01	111ALVM	6860	118	10-26-94	115.42
					06-02-95	115.87
					07-25-95	117.41
					09-08-89	96.67
					05-31-90	93.55
					09-04-90	89.07
					06-04-91	96.51
					06-04-91	96.26
					09-04-91	88.93
					06-03-92	91.26
					09-09-92	105.51
					06-02-93	dry
					07-12-93	105.44
					09-08-93	93.94
					06-01-94	92.59
					09-07-94	96.45
					10-26-94	103.39
					06-02-95	107.50
					07-25-95	94.15
					11-06-95	94.15
435018110365601	45-115-25bca01	111ALVM	6780	--	06-04-92	15.25
					09-11-92	44.94
					06-02-93	36.57
					09-11-93	19.10
					06-04-94	14.56
					09-11-94	28.42
					06-05-95	22.54
					07-28-95	11.42
					09-12-92	239.56
					06-02-93	260.70
435025110362801	45-115-25abb01	111ALVM	6930	--	09-11-93	234.39
					06-04-94	235.49
					09-11-94	233.72
					06-05-95	248.25
					07-28-95	236.04
					06-03-89	16.95
					09-09-89	11.30
					06-01-90	11.27
					09-07-90	10.93
					06-05-91	9.21
435039110305001	45-114-23ccd01	111ALVM	6730	--	09-05-91	11.36
					06-05-92	10.02
					09-12-92	11.36
					06-03-93	10.77
					07-13-93	12.5
					09-12-93	11.05
					06-04-94	10.07
					09-12-94	11.13
					06-05-95	8.70
					07-15-95	15.48
435039110305001	45-114-23ccd01	111ALVM	6730	--	07-28-95	10.52

GROUND WATER LEVELS
Teton County--Continued

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SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER-LEVEL DATE	WATER LEVEL (FEET)
435122110351801	45-114-19abb01	112GLCL	6810	--	07-24-92	73.56
					07-12-93	66.43
					06-04-94	68.39
					09-12-94	76.17
					06-05-95	69.75
					07-14-95	67.86
					07-28-95	68.30
435354110372401	45-115-02aac02	111ALVM	6814.9	38	09-07-88	6.95
					06-01-89	2.52
					09-07-89	5.24
					05-30-90	3.38
					09-05-90	5.21
					06-05-91	2.75
					09-05-91	4.85
					06-04-92	4.74
					09-09-92	5.00
					06-03-93	2.19
					09-09-93	5.12
					06-02-94	4.27
					09-08-94	6.05
					10-27-94	6.20
					06-03-95	2.24
					07-26-95	4.15
435354110373201	45-115-02aca01	111ALVM	6810	5.15	06-04-95	.03
					06-06-95	.00
					07-26-95	1.68
					11-08-95	3.40
435355110372401	45-115-02aac01	111ALVM	6815.1	32.8	09-07-88	6.33
					06-01-89	2.77
					09-07-89	5.62
					05-30-90	3.78
					09-05-90	5.60
					06-05-91	3.07
					09-05-91	5.24
					06-04-92	5.14
					09-09-92	5.35
					06-03-93	2.43
					09-09-93	5.49
					06-02-94	4.65
					09-08-94	6.44
					10-27-94	6.60
					06-03-95	2.46
					07-26-95	4.51
435357110374101	45-115-02abc01	111ALVM	6810.20	38.3	09-08-88	4.72
					06-01-89	2.67
					09-07-89	3.80
					05-30-90	3.12
					09-05-90	3.86
					06-05-91	2.94
					09-05-91	3.80
					06-04-92	3.59
					09-09-92	4.03
					06-03-93	2.63
					09-09-93	3.68
					06-02-94	2.66
					09-08-94	4.29
					10-27-94	4.15
					06-03-95	2.59
					07-26-95	3.29
435403110372001	45-115-02aab01	111ALVM	6820.4	32.4	09-07-88	11.37
					06-01-89	6.45
					09-07-89	10.57
					05-30-90	8.25
					09-05-90	10.62
					06-05-91	7.12
					09-05-91	10.10
					06-04-92	9.95
					09-09-92	10.31

GROUND WATER LEVELS

Teton County--Continued

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
435403110372001	45-115-02aab01	111ALVM	6820.4	32.4	06-03-93	5.75
					09-09-93	10.44
					06-02-94	9.39
					09-08-94	11.42
					10-27-94	11.61
					06-03-95	5.46
					07-26-95	9.33
					09-07-88	11.43
					06-01-89	5.97
					09-07-89	10.67
435407110374001	45-115-02abb01	111ALVM	6820	36.3	05-30-90	8.23
					09-05-90	10.88
					06-05-91	7.04
					09-05-91	10.63
					06-04-92	10.21
					09-09-92	10.96
					06-03-93	5.13
					09-09-93	10.42
					06-02-94	9.70
					09-08-94	11.30
					10-27-94	11.62
					06-03-95	4.53
					07-26-95	9.19
					06-02-89	3.98
					06-02-89	3.98
435427110350901	46-114-31ca1	111ALVM	6905	175	09-07-89	27.30
					06-01-90	15.08
					09-06-90	28.84
					06-05-91	17.65
					09-05-91	24.97
					06-04-92	26.40
					09-12-92	39.57
					06-04-93	8.75
					07-14-93	11.15
					09-11-93	30.32
					06-04-94	20.25
					09-12-94	36.03
					06-06-95	11.68
					07-14-95	6.51
					07-28-95	10.51
435512110335801	46-114-29db2	111ALVM	6976.8	250	06-02-89	26.61
					06-02-89	19.72
					09-07-89	37.89
					06-01-90	30.64
					09-06-90	60.36
					06-05-91	32.12
					09-05-91	55.66
					06-04-92	48.47
					09-12-92	72.50
					06-04-93	22.90
					07-14-93	35.88
					09-11-93	55.75
					06-04-94	47.63
					09-10-94	70.58
					06-06-95	22.54
					07-28-95	35.53

GROUND WATER LEVELS

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Teton County--Continued

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
435519110335401	46-114-29db1	111ALVM	6981.5	200	06-02-89	13.83
					06-02-89	13.83
					09-07-89	29.91
					06-01-90	21.00
					09-06-90	46.01
					06-05-91	15.77
					09-05-91	42.42
					06-04-92	39.30
					09-12-92	55.36
					06-04-93	15.33
					07-14-93	21.33
					09-11-93	42.53
					06-04-94	32.99
					09-01-94	56.77
					06-06-95	32.99
					07-28-95	20.21
					06-02-89	71.09
435555110382001	46-115-23ccc01	111ALVM	6829	--	09-08-89	67.94
					06-01-90	63.30
					09-06-90	66.98
					06-05-91	62.75
					09-05-91	65.73
					06-05-92	62.69
					09-11-92	85.61
					06-03-93	69.67
					07-14-93	67.82
					09-12-93	66.57
					06-04-94	61.89
					09-10-94	77.05
					06-06-95	64.00
					07-28-95	61.38
					06-03-94	21.10
					09-10-94	24.69
440018110405201	47-115-31ca01	111ALVM	6830	--	06-03-95	20.90
					07-28-95	17.15
					09-12-93	9.04
					06-03-94	9.14
440553110401301	48-115-28acb01	111ALVM	6820	--	09-10-94	10.45
					06-06-95	6.13
					07-27-95	9.14
					09-06-91	27.70
					06-05-92	27.24
					09-11-92	28.93
440645110401101	48-115-21bc02	111ALVM	6820	--	06-04-93	24.32
					09-10-93	27.39
					06-03-94	27.00
					09-09-94	28.77
					10-28-94	28.32
					06-04-95	23.83
					07-27-95	25.50
					09-07-88	26.70
					09-07-88	27.10
					06-02-89	22.61
440645110402001	48-115-21bc01	111ALVM	6837	37.3	09-08-89	25.84
					06-02-90	24.95
					09-05-90	26.50
					06-06-91	23.20
					09-06-91	26.14
					06-05-92	25.74
					09-10-92	27.25
					06-04-93	23.05
					07-13-93	23.88
					09-10-93	25.79
					06-03-94	25.54
					09-09-94	27.10
					10-28-94	27.66
					06-04-95	22.61
					07-27-95	24.03

GROUND WATER LEVELS

Teton County--Continued

SITE-ID	LOCAL WELL NUMBER	AQUIFER CODE	ALTITUDE OF LAND SURFACE (FEET)	DEPTH OF WELL (FEET)	WATER- LEVEL DATE	WATER LEVEL (FEET)
440657110402601	48-115-21bb02	111ALVM	6836	--	06-02-89	3.28
					09-08-89	4.93
					06-02-90	6.61
					09-06-90	6.84
					06-06-91	4.63
					06-06-91	33.47
					09-06-91	5.72
					06-05-92	8.27
					09-11-92	9.20
					06-04-93	4.85
					07-13-93	4.18
					09-10-93	5.14
					06-03-94	37.70
					09-09-94	8.15
					06-04-95	3.67
					07-27-95	34.37
440659110402001	48-115-21bb01	111ALVM	6846	--	06-02-89	6.81
					09-08-89	8.11
					06-02-90	30.72
					09-06-90	9.20
					06-06-91	7.80
					06-06-91	28.77
					09-06-91	9.09
					06-05-92	13.50
					09-11-92	12.63
					06-04-93	8.09
					07-13-93	28.86
					09-10-93	8.36
					06-03-94	12.14
					09-09-94	11.76
					06-04-95	7.06
					07-27-95	7.47
440701110402501	48-115-16cc01	111ALVM	6859	27.1	06-02-89	21.50
					09-08-89	22.58
					06-02-90	24.13
					09-05-90	24.06
					06-06-91	22.58
					09-06-91	23.41
					06-05-92	26.00
					09-10-92	dry
					06-04-93	22.35
					07-13-93	21.55
					09-10-93	22.74
					06-03-94	25.38
					09-09-94	dry
					10-28-94	dry
					06-04-95	22.52
					07-27-95	21.61

GOSHEN COUNTY

WATER-QUALITY DATA, WATER YEARS OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	GEO-LOGIC UNIT	LOCAL IDENTIFIER	SITE	DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)
414041104101001		111ALVM	20-061-27aad01	GW	03-29-95	1500	11.5	533	7.6	20.0
		111ALVM		GW	08-28-95	1045	12.0	530	7.6	19.3
414033104120101		111ALVM	20-061-28bda01	GW	04-03-95	1200	11.5	567	7.6	13.8
		111ALVM		GW	08-28-95	1350	13.5	585	7.6	13.1
415455104133401		211LNCE	23-061-32ccc01	GW	04-05-95	1445	10.0	1520	7.5	10.8
		211LNCE		GW	08-29-95	1700	13.5	1210	7.7	8.5
420029104170601		123WRVR	24-062-35cbb01	GW	03-28-95	1400	11.5	1720	7.5	24.6
		123WRVR		GW	09-11-95	1135	13.5	1690	8.2	21.3
420305104121101		111ALVM	24-061-16cba01	GW	04-04-95	1700	11.5	1360	7.3	6.2
		111ALVM		GW	08-21-95	1545	15.5	1420	7.2	4.7
421219104331901		111ALVM	26-064-28bbb03	GW	04-19-95	1130	14.0	868	7.4	19.2
		111ALVM		GW	08-23-95	0830	15.0	846	7.5	18.5
420836104223501		111ALVM	25-063-13bbd0	GW	04-04-95	1215	13.0	1120	7.4	27.4
		111ALVM		GW	08-29-95	1115	13.0	956	7.5	26.4
420557104181101		111ALVM	25-062-34bcb01	GW	04-15-95	1230	13.5	1020	7.2	14.7
		111ALVM		GW	08-22-95	1735	14.5	1040	7.3	12.4
415956104040701		111ALVM	23-060-03bbd01	GW	04-19-95	0830	8.0	1130	7.4	4.5
		111ALVM		GW	08-22-95	1215	11.5	1060	7.4	3.4
420549104154901		111ALVM	25-062-36bcc01	GW	04-03-95	1445	11.0	970	7.4	11.1
		111ALVM		GW	08-16-95	1220	15.0	1160	7.5	6.3
420636104205301		111ALVM	25-062-30dba01	GW	04-04-95	1500	10.0	977	7.4	7.8
		111ALVM		GW	08-15-95	1430	12.5	1000	7.4	4.8
414907104155401		211LNCE	21-062-01cbb01	GW	04-14-95	1000	13.5	1170	8.6	36.0
		211LNCE		GW	08-14-95	1505	14.5	1170	8.7	85.1
421248104313801		111ALVM	26-064-22bdd01	GW	04-14-95	1415	12.5	1370	7.2	18.6
		111ALVM		GW	08-23-95	1030	13.0	1280	7.2	11.2
420703104133001		111TRRC	25-061-29bbb01	GW	03-31-95	1430	14.0	849	7.7	86.7
		111TRRC		GW	08-15-95	1710	14.0	1080	7.7	87.9
420703104133002		111TRRC	25-061-29bbb02	GW	03-31-95	1530	13.0	1150	7.8	86.4
		111TRRC		GW	08-15-95	1825	14.5	1160	7.8	87.6
420427104133101		111ALVM	24-061-08bbb05	GW	04-14-95	1215	13.5	971	7.4	14.6
		111ALVM		GW	08-16-95	1445	14.5	975	7.4	11.2
420205104065601		111ALVM	24-060-19dca01	GW	04-07-95	1115	11.0	1300	7.4	13.1
		111ALVM		GW	08-21-95	1040	13.5	1290	7.5	9.8
413921104180801		123BRUL	20-062-34cbc01	GW	04-07-95	1515	10.5	667	7.4	22.4
		123BRUL		GW	08-30-95	1345	11.0	600	7.5	20.6
420941104184501		111ALVM	25-062-04dcc01	GW	04-11-95	1745	12.5	947	7.4	21.2
		111ALVM		GW	08-29-95	1335	14.0	952	7.4	19.7
420743104232501		111ALVM	25-063-23abc01	GW	04-12-95	1030	13.0	1100	7.3	--
		111ALVM		GW	08-22-95	1540	14.0	1030	7.3	12.0
420531104100201		111TRRC	25-061-34dda01	GW	04-18-95	1700	9.5	27	7.1	7.3
		111TRRC		GW	08-15-95	1200	11.0	1580	7.1	5.7
420209104071401		111ALVM	24-060-19cad01	GW	04-11-95	1515	10.0	1010	7.4	14.4
		111ALVM		GW	08-21-95	1340	14.0	970	7.4	12.1
420653104195601		111ALVM	25-062-29abc01	GW	04-05-95	1150	13.5	1030	7.3	20.4
		111ALVM		GW	08-14-95	1215	13.5	829	7.4	17.4
421219104310401		111ALVM	26-064-22ddd01	GW	04-19-95	1345	10.5	1030	7.3	14.1
		111ALVM		GW	08-23-95	1245	13.0	1010	7.3	8.7
420241104105301		111ALVM	24-061-22bab01	GW	03-29-95	1230	11.5	1160	7.2	10.5
		111ALVM		GW	08-30-95	1110	12.5	1320	7.2	7.3

GEOLOGIC UNIT (AQUIFER)

111ALVM	ALLUVIAL DEPOSITS	124BRDG	BRIDGER FORMATION	217GNNT	GANNETT GROUP
111TRRC	TERRACE DEPOSITS	124FSLB	FOSSIL BUTTE MEMBER OF	217SGJC	SAGE JUNCTION FORMATION
112GLCL	GLACIER DEPOSITS		GREEN RIVER FORMATION	217TMFK	THOMAS FORK FORMATION
120TRTR	TERTIARY SYSTEM	124LNEY	LANEY SHALE MEMBER OF GREEN	224TCRK	TWIN CREEK LIMESTONE OR
121FWKS	FORWKS FORMATION		RIVER FORMATION		FORMATION
123BRUL	BRULE FORMATION	124WSTC	WASATCH FORMATION	227NGGT	NUGGET SANDSTONE
123WRVR	WHITE RIVER FORMATION	125EVNS	EVANSTON FORMATION	237TYNS	THAYNES SANDSTONE
	OR GROUP	211HLRD	HILLIARD SHALE OR FORMATION	237WDS	WOODSIDE FORMATION
124ANGL	ANGELO MEMBER OF GREEN	211LNCE	LANCE FORMATION	361BRGN	BIGHORN DOLOMITE
	RIVER FORMATION	217ASPN	ASPEN SHALE OR FORMATION		

QUALITY OF GROUND WATER

GOSHEN COUNTY--Continued

WATER-QUALITY DATA, WATER YEARS OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	2, 4-D, DIS- SOLVED (UG/L) (39732)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)
414041104101001		03-29-95	85	4510	1.90	<0.010	1.90	<0.015	0.06	<0.050	<0.009
		08-28-95	85	4510	2.10	<0.010	2.10	<0.015	0.03	<0.035	<0.050
414033104120101		04-03-95	70	4495	0.70	<0.010	0.70	<0.015	0.06	<0.050	<0.009
		08-28-95	70	4495	0.56	<0.010	0.56	<0.015	0.06	<0.035	<0.050
415455104133401		04-05-95	16	4205	1.67	0.030	1.70	<0.015	0.06	<0.050	<0.050
		08-29-95	16	4205	1.59	0.010	1.60	<0.015	0.06	--	<0.050
420029104170601		03-28-95	142	4165	4.30	<0.010	4.30	<0.015	0.15	<0.060	<0.009
		09-11-95	142	4165	9.10	<0.010	9.10	<0.015	0.06	<0.035	<0.050
420305104121101		04-04-95	13	4085	--	<0.010	<0.05	0.020	0.03	<0.050	<0.050
		08-21-95	13	4085	--	--	--	--	--	<0.013	<0.050
421219104331901		04-19-95	60	4260	3.80	<0.010	3.80	<0.015	0.06	<0.060	<0.009
		08-23-95	60	4260	1.90	<0.010	1.90	<0.015	0.06	<0.013	<0.050
420836104223501		04-04-95	42	4175	8.10	<0.010	8.10	<0.015	0.06	<0.060	<0.050
		08-29-95	42	4175	5.50	<0.010	5.50	<0.015	0.09	<0.035	<0.050
420557104181101		04-15-95	40	4130	5.50	<0.010	5.50	<0.015	0.09	<0.060	<0.009
		08-22-95	40	4130	3.20	<0.010	3.20	0.020	0.06	<0.013	<0.050
415956104040701		04-19-95	15	4030	--	<0.010	<0.05	<0.015	<0.03	<0.060	<0.009
		08-22-95	15	4030	0.13	<0.010	0.13	<0.015	0.03	<0.013	<0.050
420549104154901		04-03-95	25	4125	7.69	0.010	7.70	<0.015	0.15	<0.050	<0.009
		08-16-95	25	4125	9.29	0.010	9.30	0.050	0.15	<0.035	<0.002
420636104205301		04-04-95	14	4145	1.69	0.010	1.70	<0.015	0.06	<0.050	<0.050
		08-15-95	14	4145	0.36	<0.010	0.36	0.020	0.09	<0.046	<0.002
414907104155401		04-14-95	100	4320	0.03	0.020	0.05	0.160	0.58	<0.050	<0.050
		08-14-95	100	4320	--	<0.010	<0.05	0.130	0.55	<0.035	<0.050
421248104313801		04-14-95	40	4230	12.0	<0.010	12.0	<0.015	0.06	<0.050	<0.009
		08-23-95	40	4230	9.80	<0.010	9.80	0.020	0.06	<0.013	<0.050
420703104133001		03-31-95	140	4085	5.49	0.010	5.50	<0.015	0.06	<0.050	<0.009
		08-15-95	140	4085	9.70	<0.010	9.70	0.050	0.06	<0.035	<0.002
420703104133002		03-31-95	95.5	4246	17.0	0.020	17.0	<0.015	0.06	<0.050	<0.009
		08-15-95	95.5	4246	22.0	<0.010	22.0	0.020	0.06	<0.035	<0.002
420427104133101		04-14-95	60	4105	9.30	<0.010	9.30	0.020	0.09	<0.050	<0.050
		08-16-95	60	4105	7.10	<0.010	7.10	0.020	0.09	<0.035	<0.002
420205104065601		04-07-95	19	4060	11.0	<0.010	11.0	<0.015	0.28	<0.050	<0.050
		08-21-95	19	4060	11.0	<0.010	11.0	0.020	0.31	<0.013	<0.050
413921104180801		04-07-95	60	4710	0.29	<0.010	0.29	<0.015	0.09	<0.050	<0.050
		08-30-95	60	4710	0.31	<0.010	0.31	<0.015	0.09	<0.035	<0.050
420941104184501		04-11-95	36	4205	5.20	<0.010	5.20	<0.015	0.09	<0.050	<0.009
		08-29-95	36	4205	5.60	<0.010	5.60	0.050	0.06	--	<0.050
420743104232501		04-12-95	50	4165	8.40	<0.010	8.40	<0.015	0.06	<0.050	<0.050
		08-22-95	50	4165	6.90	<0.010	6.90	<0.015	0.06	<0.013	<0.050
420531104100201		04-18-95	23	4175	6.83	0.070	6.90	0.040	0.40	<0.060	<0.009
		08-15-95	23	4175	3.28	0.020	3.30	0.070	0.37	<0.035	<0.002
420209104071401		04-11-95	80	4060	2.50	<0.010	2.50	0.015	0.09	<0.050	<0.009
		08-21-95	80	4060	1.70	<0.010	1.70	0.030	0.12	<0.013	<0.050
420653104195601		04-05-95	35	4145	2.70	<0.010	2.70	<0.015	0.09	<0.050	<0.050
		08-14-95	35	4145	2.20	<0.010	2.20	<0.015	0.09	<0.035	<0.050
421219104310401		04-19-95	25	4220	8.30	<0.010	8.30	<0.015	0.09	<0.060	<0.009
		08-23-95	25	4220	8.60	<0.010	8.60	<0.015	0.09	<0.013	<0.050
420241104105301		03-29-95	36	4180	4.40	<0.010	4.40	0.750	0.03	<0.050	<0.009
		08-30-95	36	4180	2.80	<0.010	2.80	2.20	0.06	<0.035	<0.050

QUALITY OF GROUND WATER

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GOSHEN COUNTY--Continued

WATER-QUALITY DATA, WATER YEARS OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALDI-CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA- RB SUL- FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DI- AZINON, DIS- SOLVED (UG/L) (39572)
414041104101001		03-29-95	<0.050	<0.050	<0.050	<0.017	<0.05	<0.050	<0.050	<0.013	<0.008
		08-28-95	<0.016	<0.016	<0.021	<0.001	<0.05	<0.035	<0.050	<0.200	<0.002
414033104120101		04-03-95	<0.050	<0.050	<0.050	<0.017	<0.05	<0.050	<0.050	<0.013	<0.008
		08-28-95	<0.016	<0.016	<0.021	<0.001	<0.05	<0.035	<0.050	<0.200	<0.002
415455104133401		04-05-95	<0.050	<0.050	<0.050	E0.006	<0.05	<0.050	<0.050	<0.200	<0.008
		08-29-95	<0.016	<0.016	<0.021	E0.003	<0.05*	<0.035	--	<0.200	<0.002
420029104170601		03-28-95	<0.060	<0.060	<0.060	E0.003	<0.05	<0.060	<0.060	<0.013	<0.008
		09-11-95	<0.016	<0.016	<0.021	<0.001	<0.05	<0.035	<0.050	<0.200	<0.002
420305104121101		04-04-95	<0.050	<0.050	<0.050	<0.001	<0.05	<0.050	<0.050	<0.200	<0.008
		08-21-95	<0.016	<0.016	<0.021	E0.002	<0.05	<0.011	<0.050	<0.200	<0.002
421219104331901		04-19-95	<0.016	<0.016	<0.021	E0.007	<0.05*	<0.011	<0.064	<0.013	<0.008
		08-23-95	<0.016	<0.016	<0.021	0.007	0.05	<0.011	<0.050	<0.200	<0.002
420836104223501		04-04-95	<0.060	<0.060	<0.060	E0.012	0.06	<0.060	<0.060	<0.200	<0.008
		08-29-95	<0.016	<0.016	<0.021	0.012	0.07	<0.035	<0.050	<0.200	<0.002
420557104181101		04-15-95	<0.016	<0.016	<0.021	E0.004	<0.05*	<0.011	<0.064	<0.013	<0.008
		08-22-95	<0.016	<0.016	<0.021	0.013	0.05	<0.011	<0.050	<0.200	<0.002
415956104040701		04-19-95	<0.016	<0.016	<0.021	<0.017	<0.05	<0.011	<0.064	<0.013	<0.008
		08-22-95	<0.016	<0.016	<0.021	<0.001	<0.05	<0.011	<0.050	<0.200	<0.002
420549104154901		04-03-95	<0.050	<0.050	<0.050	0.13	0.25	<0.050	<0.050	<0.013	<0.008
		08-16-95	<0.016	<0.016	<0.021	0.061	0.26	<0.035	<0.050	<0.004	<0.002
420636104205301		04-04-95	<0.050	<0.050	<0.050	<0.017	<0.05	<0.050	<0.050	<0.200	<0.008
		08-15-95	<0.021	<0.021	<0.028	E0.004	<0.05	<0.046	<0.066	<0.004	<0.002
414907104155401		04-14-95	<0.050	<0.050	<0.050	<0.017	<0.05	<0.050	<0.050	<0.200	<0.008
		08-14-95	<0.016	<0.016	<0.021	<0.05	<0.05	<0.035	<0.050	<0.200	--
421248104313801		04-14-95	<0.050	<0.050	<0.050	E0.004	<0.05*	<0.050	<0.050	<0.013	<0.008
		08-23-95	<0.016	<0.016	<0.021	E0.003	<0.05	<0.011	<0.050	<0.200	<0.002
420703104133001		03-31-95	<0.050	<0.050	<0.050	0.38	0.25	<0.050	<0.050	<0.013	<0.008
		08-15-95	<0.016	<0.016	<0.021	0.27	0.18	<0.035	<0.050	<0.004	<0.002
420703104133002		03-31-95	<0.050	<0.050	<0.050	0.70	0.21	<0.050	<0.050	<0.013	<0.008
		08-15-95	<0.016	<0.016	<0.021	0.89	0.24	<0.035	<0.050	<0.004	<0.002
420427104133101		04-14-95	<0.050	<0.050	<0.050	<0.017	<0.05*	<0.050	<0.050	<0.200	<0.008
		08-16-95	<0.016	<0.016	<0.021	<0.001	<0.05	<0.035	<0.050	<0.004	<0.002
420205104065601		04-07-95	<0.050	<0.050	<0.050	0.093	0.17	<0.050	<0.050	<0.200	<0.008
		08-21-95	<0.016	<0.016	<0.021	0.071	0.24	<0.011	<0.050	<0.200	<0.002
413921104180801		04-07-95	<0.050	<0.050	<0.050	<0.017	<0.05	<0.050	<0.050	<0.200	<0.008
		08-30-95	<0.016	<0.016	<0.021	<0.001	<0.05	<0.035	<0.050	<0.200	<0.002
420941104184501		04-11-95	<0.050	<0.050	<0.050	<0.017	<0.05	<0.050	<0.050	<0.013	<0.008
		08-29-95	<0.016	<0.016	<0.021	<0.001	<0.05	<0.035	--	<0.200	<0.002
420743104232501		04-12-95	<0.050	<0.050	<0.050	E0.002	<0.05*	<0.050	<0.050	<0.200	<0.008
		08-22-95	<0.016	<0.016	<0.021	E0.002	<0.05	<0.011	<0.050	<0.200	<0.002
420531104100201		04-18-95	<0.016	<0.016	<0.021	0.12	<0.05*	<0.011	<0.064	0.130	0.016
		08-15-95	<0.016	<0.016	<0.021	0.11	0.08	<0.035	<0.050	0.018	<0.002
420209104071401		04-11-95	<0.050	<0.050	<0.050	<0.017	<0.05	<0.050	<0.050	<0.013	<0.008
		08-21-95	<0.016	<0.016	<0.021	<0.001	<0.05*	<0.011	<0.050	<0.200	<0.002
420653104195601		04-05-95	<0.050	<0.050	<0.050	<0.017	<0.05	<0.050	<0.050	<0.200	<0.008
		08-14-95	<0.016	<0.016	<0.021	<0.05	<0.05	<0.035	<0.050	<0.200	--
421219104310401		04-19-95	<0.016	<0.016	<0.021	0.90	0.55	<0.011	<0.064	<0.013	<0.008
		08-23-95	<0.016	<0.016	<0.021	0.52	0.81	<0.011	<0.050	<0.200	<0.002
420241104105301		03-29-95	<0.050	<0.050	<0.050	E0.002	<0.05	<0.050	<0.050	<0.013	<0.008
		08-30-95	<0.016	<0.016	<0.021	0.005	<0.05	<0.035	<0.050	<0.200	<0.002

E - Estimate.

* - Compound identified, but not quantified.

QUALITY OF GROUND WATER

GOSHEN COUNTY--Continued

WATER-QUALITY DATA, WATER YEARS OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	1,1-DI CHLORO- PRO- PANE, WAT, WH TOTAL (UG/L) (34541)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
414041104101001		03-29-95	<0.004	<0.050	<0.2	<0.009	<0.012	<0.050	<0.008	<0.008	<0.015
		08-28-95	<0.002	<0.035	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010
414033104120101		04-03-95	<0.004	<0.050	<0.2	<0.009	<0.012	<0.050	<0.008	<0.008	<0.015
		08-28-95	<0.002	<0.035	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010
415455104133401		04-05-95	<0.004	<0.050	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.015
		08-29-95	<0.002	--	<0.2	<0.050	<0.050	--	0.110	<0.050	<0.010
420029104170601		03-28-95	<0.004	<0.060	<0.2	<0.009	<0.012	<0.060	E0.005	<0.008	<0.015
		09-11-95	<0.002	<0.035	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010
420305104121101		04-04-95	<0.004	<0.050	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.015
		08-21-95	<0.002	<0.011	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010
421219104331901		04-19-95	<0.004	<0.018	<0.2	<0.009	<0.012	<0.031	<0.008	<0.008	<0.015
		08-23-95	<0.002	<0.011	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010
420836104223501		04-04-95	<0.004	<0.060	<0.2	<0.050	<0.050	<0.060	<0.050	<0.050	<0.015
		08-29-95	<0.002	<0.035	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010
420557104181101		04-15-95	<0.004	<0.018	<0.2	<0.009	<0.012	<0.031	E0.003	<0.008	<0.015
		08-22-95	<0.002	<0.011	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010
415956104040701		04-19-95	<0.004	<0.018	<0.2	<0.009	<0.012	<0.031	0.013	<0.008	<0.015
		08-22-95	<0.002	<0.011	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010
420549104154901		04-03-95	<0.004	<0.050	<0.2	<0.009	<0.012	<0.050	<0.008	<0.008	<0.015
		08-16-95	<0.002	<0.035	<0.2	<0.002	<0.004	<0.050	<0.018	<0.005	<0.010
420636104205301		04-04-95	<0.004	<0.050	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.015
		08-15-95	<0.002	<0.046	<0.2	<0.002	<0.004	<0.066	0.380	<0.005	<0.010
414907104155401		04-14-95	<0.004	<0.050	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.015
		08-14-95	--	<0.035	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	--
421248104313801		04-14-95	<0.004	<0.050	<0.2	<0.009	<0.012	<0.050	<0.008	<0.008	<0.015
		08-23-95	<0.002	<0.011	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010
420703104133001		03-31-95	<0.004	<0.050	<0.2	<0.009	<0.012	<0.050	0.041	0.017	<0.015
		08-15-95	<0.002	<0.035	<0.2	<0.002	<0.004	<0.050	0.056	0.011	<0.010
420703104133002		03-31-95	<0.004	<0.050	<0.2	<0.009	<0.012	<0.050	0.400	0.020	<0.015
		08-15-95	<0.002	<0.035	<0.2	<0.002	<0.004	<0.050	0.081	<0.005	<0.010
420427104133101		04-14-95	<0.004	<0.050	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.015
		08-16-95	<0.002	<0.035	<0.2	<0.002	<0.004	<0.050	0.360	<0.005	<0.010
420205104065601		04-07-95	<0.004	<0.050	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.015
		08-21-95	<0.002	<0.011	<0.2	<0.050	<0.050	<0.050	0.110	<0.050	<0.010
413921104180801		04-07-95	<0.004	<0.050	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.015
		08-30-95	<0.002	<0.035	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010
420941104184501		04-11-95	<0.004	<0.050	<0.2	<0.009	<0.012	<0.050	<0.008	<0.008	<0.015
		08-29-95	<0.002	--	<0.2	<0.050	<0.050	--	<0.050	<0.050	<0.010
420743104232501		04-12-95	<0.004	<0.050	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.015
		08-22-95	<0.002	<0.011	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010
420531104100201		04-18-95	<0.004	<0.018	1.3	<0.009	<0.012	<0.031	<0.008	<0.008	<0.015
		08-15-95	<0.002	<0.035	0.7	<0.002	<0.004	<0.050	<0.018	<0.005	<0.010
420209104071401		08-11-95	<0.004	<0.050	<0.2	<0.009	<0.012	<0.050	<0.000	<0.000	<0.015
		08-21-95	<0.002	<0.011	<0.2	<0.050	<0.050	<0.050	<0.058	<0.058	<0.010
420653104195601		04-05-95	<0.004	<0.050	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.015
		08-14-95	--	<0.035	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	--
421219104310401		04-19-95	<0.004	<0.018	<0.2	<0.009	<0.012	<0.031	<0.008	0.008	<0.015
		08-23-95	<0.002	<0.011	<0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010
420241104105301		03-29-95	<0.004	<0.050	0.5	<0.009	<0.012	<0.050	0.140	<0.008	<0.015
		08-30-95	<0.002	<0.035	0.1	<0.050	<0.050	<0.050	0.130	<0.050	<0.010

E - Estimate.

QUALITY OF GROUND WATER

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LINCOLN COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	GEO-LOGIC UNIT	LOCAL IDENTIFIER	SITE	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00058)
413502110531101	124WSTC	19-119-32dad01	SP	06-22-95	1600	--	--	--	--
413510111010401	217GNNT	19-120-32cbb01	SP	05-21-95	--	--	--	--	--
413654110470701	124FSLB	19-118-20cba01	SP	06-23-95	--	--	--	--	--
413715110470701	124FSLB	19-118-20bba01	SP	06-23-95	1145	--	--	--	--
413803110531701	124WSTC	19-119-17aac01	SP	06-22-95	1045	--	--	--	--
413806110524601	124WSTC	19-119-16bac01	SP	06-22-95	--	--	--	--	--
413819110565501	217SGJC	19-120-11dcd01	SP	05-20-95	1610	--	--	--	--
413819110580101	217TMFK	19-120-10ddc01	SP	05-20-95	--	--	--	--	--
413825110513101	124WSTC	19-119-10cda01	SP	06-22-95	--	--	--	--	--
413941110402201	124FSLB	19-117-05bcb01	SP	06-12-95	0950	--	--	--	--
414007110172501	120TRTR	20-114-33ddb01	GW	07-31-95	1445	--	881	2.0	
414055110293601	124WSTC	20-116-26cdd01	SP	07-30-95	--	--	--	--	--
414152110051001	111ALVM	20-112-20cad01	GW	07-14-95	1255	E8.00	25	12	
414254110505001	124FSLB	20-119-15dad01	SP	05-22-95	1300	--	--	--	--
414312110480501	124WSTC	20-118-18bac01	SP	06-12-95	1645	--	--	--	--
414321110582801	217GNNT	20-120-15bad01	SP	06-20-95	1115	--	--	--	--
414343110560701	121FWKS	20-120-12cad01	SP	06-20-95	1615	--	--	--	--
414358110420501	124FSLB	20-118-12acc01	SP	06-13-95	--	--	--	--	--
414406110304801	217ASPN	20-116-10bda01	GW	06-26-95	1050	60.01	100	12	
414453110271601	111ALVM	20-115-06baa01	GW	07-10-95	1840	5.14	20	2.5	
414458110495301	124FSLB	21-118-32ddc01	SP	06-21-95	1830	--	--	--	--
414459110313601	111ALVM	21-116-36dcd01	GW	07-14-95	1030	30.82	105	12	
414517110240701	124LNEY	21-114-31cbb01	GW	06-26-95	1340	13.85	155	8.0	
414539110415601	124FSLB	21-117-33abd01	SP	06-13-95	1415	--	--	--	--
414546110195401	124BRDG	21-114-34aba01	GW	06-25-95	1850	3.97	142	13	
414555110232701	124BRDG	21-114-30dcd01	GW	06-26-95	1740	-12.12	65	6.0	
414606110194601	111ALVM	21-114-27dac01	GW	07-10-95	2010	0.0	50	--	--
414617110440901	124FSLB	21-117-30adc01	SP	06-13-95	1145	--	--	--	--
414642110115201	111ALVM	21-113-23dcd01	GW	06-25-95	0930	8.58	50	4.0	
414645110121101	111ALVM	21-113-23dcd01	GW	06-25-95	1105	3.92	9	4.5	
414707110485901	124WSTC	21-118-21acc01	SP	06-21-95	1400	--	--	--	--
414708110140001	124LNEY	21-113-21adc01	GW	06-25-95	1530	9.62	55	20	
414708110141201	111ALVM	21-113-21acc01	GW	06-25-95	1415	11.84	55	6.0	
414708110533101	224TCRK	21-119-23acd01	SP	06-24-95	0945	--	--	--	--
414708110533901	124WSTC	21-119-23acc01	SP	06-24-95	1245	--	--	--	--
414717110433001	124FSLB	21-117-20bdb01	SP	06-13-95	0940	--	--	--	--
414721110145701	111ALVM	21-113-20aad01	GW	06-25-95	1730	5.18	15	12	
414721110503401	227NGGT	21-118-20bbd01	SP	06-21-95	1615	--	--	--	--
414749110410101	111TRRC	21-117-15cad01	GW	06-23-95	1715	22.62	55	--	--
414758110474701	125EVNS	21-118-15dba01	SP	06-13-95	1820	--	--	--	--
414811110405201	125EVNS	21-117-15acb01	GW	06-23-95	1830	51.07	264	0.5	
415050110333401	111ALVM	22-116-34aad01	GW	08-01-95	1630	45.76	80	6.0	
415058110333801	111ALVM	22-116-34aab01	GW	08-01-95	1410	12.73	50	7.0	
415109110334101	111ALVM	22-116-27ddb01	GW	08-01-95	1520	6.30	40	8.0	
415117110541301	124WSTC	22-119-26cbc01	SP	06-21-95	--	--	--	--	--
415250110361301	111ALVM	22-116-17dcd01	GW	06-27-95	0930	5.67	15	8.0	
415511110414101	124ANGL	22-117-04abc01	SP	07-11-95	--	--	--	--	--
415557110571701	111ALVM	23-119-32bda03	GW	06-09-95	0930	20.98	120	--	--
415631110325701	211HLRD	23-116-26cad01	SP	08-02-95	0745	--	--	--	--
415757110433301	124FSLB	23-117-19aaa01	SP	07-11-95	1320	--	--	--	--
415758110433301	124FSLB	23-117-17ccc01	SP	07-11-95	--	--	--	--	--
420013110560901	111ALVM	23-119-04bcc01	GW	06-09-95	1230	7.11	200	--	--
420112110325401	111ALVM	24-116-35acb01	GW	08-01-95	1020	--	140	6.0	
420253110554601	111ALVM	24-119-21adb01	GW	06-10-95	1630	17.73	65	--	--
420254110555801	111ALVM	24-119-21acb01	GW	06-10-95	1715	19.93	35	--	--
420340110583301	111ALVM	24-119-18bdc01	GW	06-10-95	1000	153.57	249	--	--
420408110493601	237WDSO	24-118-09ccc01	SP	06-11-95	--	--	--	--	--
420415110494401	237WDSO	24-118-08dda01	SP	06-11-95	1545	--	--	--	--
420429110504301	227NGGT	24-118-08cba01	SP	06-11-95	1245	--	--	--	--
420430110505701	227NGGT	24-118-07daa01	SP	06-11-95	--	--	--	--	--
420525110401401	111ALVM	24-117-03dad01	GW	06-27-95	1140	5.58	20	11	
420526110530801	111TRRC	420526110530801	SP	06-11-95	1040	--	--	--	--
420552110223301	111ALVM	24-114-06abb01	GW	07-28-95	1835	21.85	--	12	
420558110133001	111ALVM	25-113-35ddd01	GW	07-28-95	1220	22.30	75	8.0	

E - Estimate.

QUALITY OF GROUND WATER

LINCOLN COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	FLOW RATE, INSTAN- TANEOUS (G/M) (00059)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
413502110531101		06-22-95	E50	656	7.5	6.5	310	63	70	33	14
413510111010401		05-21-95	--	1030	--	9.0	--	--	--	--	--
413654110470701		06-23-95	--	755	7.5	6.0	--	--	--	--	--
413715110470701		06-23-95	E25	833	7.4	6.0	400	75	84	45	26
413803110531701		06-22-95	E25	579	7.5	7.0	290	31	63	33	10
413806110524601		06-22-95	--	850	7.4	8.0	--	--	--	--	--
413819110565501		05-20-95	0.2	856	7.7	8.0	390	91	100	33	27
413819110580101		05-20-95	--	670	--	7.0	--	--	--	--	--
413825110513101		06-22-95	--	855	7.5	6.5	--	--	--	--	--
413941110402201		06-12-95	E25	675	7.6	6.0	320	70	57	44	17
414007110172501		07-31-95	--	3590	8.7	14.5	8	0	1.4	1.0	860
414055110293601		07-30-95	--	1050	7.1	10.5	--	--	--	--	--
414152110051001		07-14-95	--	3100	7.4	9.0	630	270	160	55	530
414254110505001		05-22-95	2.0	1060	7.5	5.0	530	250	110	63	25
414312110480501		06-12-95	E5.0	650	7.4	6.0	320	27	81	29	4.7
414321110582801		06-20-95	E1.0	1450	8.5	9.0	57	0	7.8	9.1	280
414343110560701		06-20-95	E2.0	605	7.9	13.0	280	--	73	24	17
414358110420501		06-13-95	--	980	7.5	7.0	--	--	--	--	--
414406110304801		06-26-95	--	1460	7.7	9.0	340	91	58	47	170
414453110271601		07-10-95	--	622	7.2	11.0	310	45	93	19	12
414458110495301		06-21-95	E25	1150	7.4	7.0	630	300	140	67	18
414459110313601		07-14-95	--	2470	7.3	9.0	900	630	220	86	200
414517110240701		06-26-95	--	1050	9.5	8.5	7	--	1.2	1.0	200
414539110415601		06-13-95	E10	990	7.6	7.0	430	150	100	44	40
414546110195401		06-25-95	--	1570	7.6	8.0	420	60	120	30	190
414555110232701		06-26-95	--	1310	7.5	18.0	400	74	73	52	130
414606110194601		07-10-95	--	2150	8.5	11.0	26	0	6.7	2.2	460
414617110440901		06-13-95	E200	1210	7.4	7.0	570	300	130	60	45
414642110115201		06-25-95	--	944	8.7	9.0	37	0	8.7	3.7	180
414645110121101		06-25-95	--	579	7.5	10.0	270	49	80	18	18
414707110485901		06-21-95	6.0	777	7.6	7.0	350	84	81	37	26
414708110140001		06-25-95	--	5540	7.4	10.0	1600	1200	330	180	860
414708110141201		06-25-95	--	4140	7.4	8.0	800	440	140	110	720
414708110533101		06-24-95	15	466	7.4	9.0	210	73	65	11	12
414708110533901		06-24-95	E5.0	652	7.5	10.0	300	100	92	16	20
414717110433001		06-13-95	E10	1120	7.7	10.0	460	270	100	52	53
414721110145701		06-25-95	--	1500	7.7	10.0	230	0	46	27	250
414721110503401		06-21-95	E5.0	61	6.2	7.0	25	5	7.7	1.3	2.3
414749110410101		06-23-95	--	1590	7.6	8.0	380	77	70	49	200
414758110474701		06-13-95	E25	997	7.4	8.5	410	150	88	47	48
414811110405201		06-23-95	--	7680	8.3	12.0	190	0	30	29	1800
415050110333401		08-01-95	--	1760	7.4	9.5	680	380	170	61	140
415058110333801		08-01-95	--	1360	7.6	9.5	480	210	120	43	96
415109110334101		08-01-95	--	825	7.6	7.0	310	75	80	27	43
415117110541301		06-21-95	--	770	7.4	13.0	--	--	--	--	--
415250110361301		06-27-95	--	1180	7.2	8.0	600	230	140	60	26
415511110414101		07-11-95	--	450	7.6	7.5	--	--	--	--	--
415557110571701		06-09-95	--	767	7.6	9.0	330	64	78	32	29
415631110325701		08-02-95	9.0	812	7.4	7.0	380	100	99	33	47
415757110433301		07-11-95	E20	345	7.8	6.0	170	8	37	19	6.4
415758110433301		07-11-95	--	310	8.0	6.5	--	--	--	--	--
420013110560901		06-09-95	--	1540	7.6	9.0	480	210	100	56	130
420112110325401		08-01-95	--	755	8.1	7.0	49	0	12	4.5	160
420253110554601		06-10-95	--	677	7.8	10.0	280	0	41	43	39
420254110555801		06-10-95	--	822	7.7	10.0	320	34	64	40	49
420340110583301		06-10-95	--	359	7.8	10.0	150	0	41	12	15
		06-10-95	--	359	7.8	10.0	150	0	40	12	14
420408110493601		06-11-95	--	430	7.7	9.0	--	--	--	--	--
420415110494401		06-11-95	E10	515	7.8	6.5	250	35	54	28	5.7
420429110504301		06-11-95	E2.0	591	8.1	8.0	290	86	71	27	6.8
420430110505701		06-11-95	--	548	8.1	7.0	--	--	--	--	--
420525110401401		06-27-95	--	434	7.6	5.5	220	0	70	10	7.2
420526110530801		06-11-95	E20	606	7.7	7.5	300	85	84	22	8.2
420552110223301		07-28-95	--	1110	7.7	9.5	210	0	48	23	170
420558110133001		07-28-95	--	2750	7.5	10.0	1400	1100	320	140	160

E - Estimate.

QUALITY OF GROUND WATER

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LINCOLN COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CAC03 (39086)	ALKA- LITY LAB (MG/L AS CAC03) (90410)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
413502110531101		06-22-95	0.3	1.4	248	255	--	--	22	48	0.3
413510111010401		05-21-95	--	--	--	--	--	--	--	--	--
413654110470701		06-23-95	--	--	--	--	--	--	--	--	--
413715110470701		06-23-95	0.6	2.4	320	329	--	--	83	33	0.4
413803110531701		06-22-95	0.3	1.0	262	275	--	--	27	12	0.4
413806110524601		06-22-95	--	--	--	--	--	--	--	--	--
413819110565501		05-20-95	0.6	2.0	294	285	--	--	38	65	0.2
413819110580101		05-20-95	--	--	--	--	--	--	--	--	--
413825110513101		06-22-95	--	--	--	--	--	--	--	--	--
413941110402201		06-12-95	0.4	2.6	253	264	--	--	84	15	0.6
414007110172501		07-31-95	140	1.4	1080	1150	55	1210	280	330	2.8
414055110293601		07-30-95	--	--	--	--	--	--	--	--	--
414152110051001		07-14-95	9	0.6	356	366	--	--	1300	72	1.0
414254110505001		05-22-95	0.5	2.4	287	304	--	--	260	24	0.5
414312110480501		06-12-95	0.1	1.2	295	301	--	--	22	18	0.2
414321110582801		06-20-95	16	1.1	314	326	--	--	180	140	2.3
414343110560701		06-20-95	0.4	1.6	--	243	--	--	51	23	0.4
414358110420501		06-13-95	--	--	--	--	--	--	--	--	--
414406110304801		06-26-95	4	4.0	248	269	--	--	230	160	0.5
414453110271601		07-10-95	0.3	2.2	265	266	--	--	60	6.2	0.2
414458110495301		06-21-95	0.3	2.8	326	340	--	--	300	20	0.3
414459110313601		07-14-95	3	8.1	273	290	--	--	780	210	0.3
414517110240701		06-26-95	33	0.5	--	329	--	--	120	17	0.9
414539110415601		06-13-95	0.8	1.3	280	288	--	--	260	6.8	0.3
414546110195401		06-25-95	4	0.5	364	386	--	--	420	48	0.6
414555110232701		06-26-95	3	1.6	323	330	--	--	350	29	0.2
414606110194601		07-10-95	39	1.4	286	303	--	--	660	57	0.3
414617110440901		06-13-95	0.8	2.1	268	270	--	--	400	17	0.3
414642110115201		06-25-95	13	0.9	200	188	--	--	210	35	0.7
414645110121101		06-25-95	0.5	1.1	225	243	--	--	63	7.1	0.4
414707110485901		06-21-95	0.6	2.6	271	277	--	--	80	44	0.4
414708110140001		06-25-95	9	4.2	380	412	--	--	2600	250	0.3
414708110141201		06-25-95	11	1.7	359	393	--	--	1700	170	0.5
414708110533101		06-24-95	0.4	2.3	135	150	--	--	75	11	0.5
414708110533901		06-24-95	0.5	5.1	195	217	--	--	100	18	0.4
414717110433001		06-13-95	1	0.4	195	199	--	--	400	11	0.2
414721110145701		06-25-95	7	1.6	300	321	--	--	400	35	0.5
414721110503401		06-21-95	0.2	0.5	19	21	--	--	4.1	1.9	<0.1
414749110410101		06-23-95	4	2.6	300	316	--	--	400	83	0.9
414758110474701		06-13-95	1	3.1	266	277	--	--	230	30	0.5
414811110405201		06-23-95	56	23	522	525	--	--	1100	1600	2.2
415050110333401		08-01-95	2	2.9	292	287	--	--	356	590	0.3
415058110333801		08-01-95	2	3.7	263	265	--	--	321	260	0.2
415109110334101		08-01-95	1	1.9	236	234	--	--	288	140	0.2
415117110541301		06-21-95	--	--	--	--	--	--	--	--	--
415250110361301		06-27-95	0.5	6.9	366	375	--	--	260	27	0.4
415511110414101		07-11-95	--	--	--	--	--	--	--	--	--
415557110571701		06-09-95	0.7	2.7	263	268	--	--	73	45	0.2
415631110325701		08-02-95	1	1.9	278	282	--	--	340	170	0.3
415757110433301		07-11-95	0.2	0.5	162	178	--	--	6.0	2.6	0.7
415758110433301		07-11-95	--	--	--	--	--	--	--	--	--
420013110560901		06-09-95	3	6.6	266	262	--	--	350	120	0.5
420112110325401		08-01-95	10	3.1	394	396	--	--	481	23	1.3
420253110554601		06-10-95	1	1.5	302	308	--	--	62	6.2	1.0
420254110555801		06-10-95	1	2.1	290	318	--	--	110	16	0.4
420340110583301		06-10-95	0.5	1.7	156	157	--	--	8.4	14	0.3
		06-10-95	0.5	1.7	156	157	--	--	8.3	14	0.3
420408110493601		06-11-95	--	--	--	--	--	--	--	--	--
420415110494401		06-11-95	0.2	1.0	215	222	--	--	56	3.6	0.3
420429110504301		06-11-95	0.2	0.8	203	210	--	--	110	3.8	0.2
420430110505701		06-11-95	--	--	--	--	--	--	--	--	--
420525110401401		06-27-95	0.2	1.2	227	206	--	--	17	7.1	0.2
420526110530801		06-11-95	0.2	0.8	216	207	--	--	100	5.7	0.3
420552110223301		07-28-95	5	2.0	372	383	--	--	453	180	0.3
420558110133001		07-28-95	2	6.3	262	271	--	--	320	1300	2.0

QUALITY OF GROUND WATER

LINCOLN COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
413502110531101		06-22-95	<3	<1	7.6	349	--	--	--	--	--
413510111010401		05-21-95	--	--	--	--	--	--	--	--	--
413654110470701		06-23-95	--	--	--	--	--	--	--	--	--
413715110470701		06-23-95	<3	<1	8.3	479	--	--	--	--	--
413803110531701		06-22-95	<3	<1	7.8	319	--	--	--	--	--
413806110524601		06-22-95	--	--	--	--	--	--	--	--	--
413819110565501		05-20-95	<3	<1	7.7	444	--	--	--	--	--
413819110580101		05-20-95	--	--	--	--	--	--	--	--	--
413825110513101		06-22-95	--	--	--	--	--	--	--	--	--
413941110402201		06-12-95	<3	<1	11	389	--	--	--	--	--
414007110172501		07-31-95	78	<3	8.2	2140	--	--	--	--	--
414055110293601		07-30-95	--	--	--	--	--	--	--	--	--
414152110051001		07-14-95	24	15	13	2350	0.63	<0.01	0.63	0.04	<0.01
414254110505001		05-22-95	<3	<1	12	679	--	--	--	--	--
414312110480501		06-12-95	<3	<1	7.4	344	--	--	--	--	--
414321110582801		06-20-95	<3	<1	8.5	824	--	--	--	--	--
414343110560701		06-20-95	4	14	10	346	--	--	--	--	--
414358110420501		06-13-95	--	--	--	--	--	--	--	--	--
414406110304801		06-26-95	<3	<1	9.7	875	7.89	0.01	7.90	0.02	<0.01
414453110271601		07-10-95	89	210	8.8	361	--	<0.01	<0.05	0.02	<0.01
414458110495301		06-21-95	<3	<1	12	764	--	--	--	--	--
414459110313601		07-14-95	1200	14	9.3	1690	--	<0.01	<0.05	0.16	<0.01
414517110240701		06-26-95	<3	<1	12	551	0.32	0.01	0.33	0.03	0.02
414539110415601		06-13-95	<3	<1	28	653	--	--	--	--	--
414546110195401		06-25-95	280	7	12	1050	--	0.01	<0.05	0.08	0.01
414555110232701		06-26-95	220	15	25	859	--	0.01	<0.05	0.24	<0.01
414606110194601		07-10-95	15	17	D11	1370	--	<0.01	<0.05	0.25	0.02
414617110440901		06-13-95	<3	<1	20	836	--	--	--	--	--
414642110115201		06-25-95	<3	1	7.4	559	--	<0.01	<0.05	0.04	0.02
414645110121101		06-25-95	<3	23	8.6	342	--	<0.01	<0.05	0.02	0.03
414707110485901		06-21-95	<3	<1	13	450	--	--	--	--	--
414708110140001		06-25-95	63	<3	10	4480	0.21	<0.01	0.21	0.03	0.01
414708110141201		06-25-95	30	<3	8.4	3090	0.73	<0.01	0.73	0.02	0.01
414708110533101		06-24-95	800	190	15	283	--	--	--	--	--
414708110533901		06-24-95	<3	1	11	393	--	--	--	--	--
414717110433001		06-13-95	<3	2	21	757	--	--	--	--	--
414721110145701		06-25-95	4	1	8.4	962	0.11	0.01	0.12	0.03	0.02
414721110503401		06-21-95	26	<1	9.1	40	--	--	--	--	--
414749110410101		06-23-95	120	51	11	1010	0.08	<0.01	0.08	0.08	0.03
414758110474701		06-13-95	<3	<1	12	625	--	--	--	--	--
414811110405201		06-23-95	510	70	4.7	4910	--	<0.01	<0.05	1.10	0.02
415050110333401		08-01-95	33	<1	9.9	1220	0.65	<0.01	0.65	<0.02	<0.01
415058110333801		08-01-95	100	15	11	810	1.80	<0.01	1.80	0.20	<0.01
415109110334101		08-01-95	58	5	9.9	460	0.31	<0.01	0.31	0.08	<0.01
415117110541301		06-21-95	--	--	--	--	--	--	--	--	--
415250110361301		06-27-95	570	2	10	756	0.04	0.01	0.050	0.030	<0.01
415511110414101		07-11-95	--	--	--	--	--	--	--	--	--
415557110571701		06-09-95	<3	<1	16	437	--	--	--	--	--
415631110325701		08-02-95	<3	<1	11	554	--	--	--	--	--
415757110433301		07-11-95	<3	<1	14	193	--	--	--	--	--
415758110433301		07-11-95	--	--	--	--	--	--	--	--	--
420013110560901		06-09-95	620	63	17	938	--	--	--	--	--
420112110325401		08-01-95	500	39	8.3	450	--	<0.01	<0.05	0.39	<0.01
420253110554601		06-10-95	9	1	23	401	--	--	--	--	--
420254110555801		06-10-95	6	<1	26	498	--	--	--	--	--
420340110583301		06-10-95	<3	4	26	213	--	--	--	--	--
420408110493601		06-10-95	7	3	26	210	--	--	--	--	--
420415110494401		06-11-95	--	--	--	--	--	--	--	--	--
420429110504301		06-11-95	<3	<1	11	293	--	--	--	--	--
420430110505701		06-11-95	<3	<1	14	360	--	--	--	--	--
420525110401401		06-27-95	--	--	--	--	--	--	--	--	--
420526110530801		06-11-95	<3	10	7.6	244	0.08	0.01	0.09	0.05	0.01
420522110223301		07-28-95	<3	5	18	363	--	--	--	--	--
420558110133001		07-28-95	120	45	12	689	--	<0.01	<0.05	0.12	<0.01
420558110133001		07-28-95	15	<3	22	2220	15.0	<0.01	15.0	0.08	<0.01

QUALITY OF GROUND WATER

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LINCOLN COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	GEO- LOGIC UNIT	LOCAL IDENT- I- FIER	SITE	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	FLOW RATE (G/M) (00058)
420611110392801	124WSTC	25-116-32ccb01		SP	08-01-95	1900	--	--	--
420754110423701	124WSTC	25-117-23cdc01		SP	08-01-95	--	--	--	--
420837110490801	237TYNS	25-118-23aba01		SP	06-24-95	1800	--	--	--
420905110111401	111ALVM	25-112-17bcb01		GW	07-29-95	2045	20.00	60	7.0
420906110582301	224TCRK	420906110582301		SP	06-10-95	1230	--	--	--
420958110192701	124WSTC	25-114-12daa01		SP	07-29-95	1200	--	--	--
420958110242401	237TYNS	25-114-08daa01		SP	07-30-95	--	--	--	--
42111511012701	111ALVM	25-119-06bca01		GW	06-10-95	1415	37.95	60	--
421245110113001	111ALVM	26-112-30abc01		GW	07-27-95	1535	38.86	75	8.0
421247110124601	111ALVM	26-120-25cba01		GW	06-09-95	1500	--	210	--
421252110113601	111ALVM	26-112-19dcd01		GW	07-27-95	1350	44.85	100	4.0
421301110123201	111ALVM	26-120-25bda01		GW	06-09-95	1645	31.50	90	--
421313110255001	227NGGT	26-115-24dcd01		SP	07-29-95	1500	--	--	5.0
421405110275601	227NGGT	26-115-15cdb01		SP	07-13-95	1420	--	--	--
421446110435701	124WSTC	26-117-16bbd01		SP	07-11-95	1730	--	--	--
421509110185301	361BGRN	26-113-07bda01		SP	07-27-95	1745	--	--	10
421541110313801	217ASPN	26-115-07bba01		SP	07-13-95	1715	--	--	--
421557110263201	224TCRK	26-115-01cbc01		SP	07-13-95	1005	--	--	--
421612110182301	361BGRN	26-113-06ada01		SP	07-12-95	1115	--	--	--
421642110431901	217GNNT	27-117-34cdc01		SP	07-11-95	1945	--	--	--
423238110533201	111ALVM	30-118-33bcb01		GW	10-17-94	0945	26.09	85	--
	111ALVM			GW	03-06-95	0945	24.20	85	--
	111ALVM			GW	05-18-95	0900	17.75	85	--
	111ALVM			GW	07-25-95	0910	17.67	85	--
424216110585501	111ALVM	31-119-03bad01		GW	10-17-94	1200	26.44	70	--
	111ALVM			GW	03-08-95	1000	27.10	70	--
	111ALVM			GW	05-18-95	1115	10.92	70	--
	111ALVM			GW	07-25-95	1045	6.85	70	--
424423110570901	111ALVM	32-119-23dad01		GW	10-17-94	1445	42.22	75	--
	111ALVM			GW	03-06-95	1530	44.64	75	--
	111ALVM			GW	05-18-95	1330	40.83	75	--
	111ALVM			GW	07-25-95	1320	26.93	75	--
424740110572601	111ALVM	33-118-31ddc01		GW	10-17-94	1645	16.09	50	--
	111ALVM			GW	03-06-95	1715	16.91	50	--
	111ALVM			GW	05-18-95	1500	16.12	50	--
	111ALVM			GW	07-25-95	1450	13.43	50	--
425135110592201	111ALVM	33-119-12cba01		GW	10-18-94	1745	4.94	25	--
	111ALVM			GW	03-07-95	0900	4.24	25	--
	111ALVM			GW	05-18-95	1415	--	25	--
	111ALVM			GW	07-25-95	1620	4.54	25	--
425638111002201	111ALVM	34-119-11cac01		GW	10-17-94	1815	11.15	60	--
	111ALVM			GW	03-06-95	1300	13.89	60	--
	111ALVM			GW	05-19-95	1000	8.77	60	--
	111ALVM			GW	07-26-95	0900	5.49	60	--
425855111020601	111ALVM	35-119-33abb01		GW	10-18-94	1130	12.98	50	--
	111ALVM			GW	03-07-95	1415	20.43	50	--
	111ALVM			GW	05-19-95	1225	12.89	50	--
	111ALVM			GW	07-26-95	1230	9.34	50	--
425857110591901	111ALVM	35-119-25ccd01		GW	10-18-94	1000	94.70	119	--
	111ALVM			GW	03-07-95	1230	102.63	119	--
	111ALVM			GW	05-19-95	1115	95.23	119	--
	111ALVM			GW	07-26-95	1125	78.17	119	--
425857111021801	111ALVM	35-119-33aba01		GW	10-16-94	1400	14.98	60	--
430057111003801	111ALVM	35-119-14cbc01		GW	10-18-94	1415	31.09	75	--
	111ALVM			GW	03-07-95	1600	35.31	75	--
	111ALVM			GW	05-19-95	1500	31.95	75	--
	111ALVM			GW	07-26-95	1530	29.15	75	--
430331111013301	111ALVM	36-119-34cbd01		GW	10-18-94	1545	21.75	85	--
	111ALVM			GW	03-07-95	1730	22.13	85	--
	111ALVM			GW	05-19-95	1605	20.34	85	--
	111ALVM			GW	07-26-95	1625	20.55	85	--
430441111003601	111ALVM	36-119-26bcc01		GW	10-16-94	1730	102.38	140	--
430444111003701	111ALVM	36-119-26bcb01		GW	10-16-94	1615	104.00	110	--

QUALITY OF GROUND WATER

LINCOLN COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	FLOW RATE, INSTAN- TANEOUS (G/M) (00059)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
420611110392801		08-01-95	15	373	7.7	8.0	190	24	61	9.1	1.7
420754110423701		08-01-95	--	633	7.8	10.5	--	--	--	--	--
420837110490801		06-24-95	E20	391	7.9	6.5	210	11	57	16	3.4
420905110111401		07-29-95	--	783	7.7	8.0	350	63	99	26	36
420906110582301		06-10-95	E25	595	7.6	9.0	290	74	76	25	11
420958110192701		07-29-95	25	583	7.7	8.0	230	18	59	20	37
420958110242401		07-30-95	--	535	7.9	7.0	--	--	--	--	--
421115111012701		06-10-95	--	1080	7.7	9.0	320	--	87	25	62
421245110113001		07-27-95	--	683	7.7	9.0	280	39	74	24	37
421247111024601		06-09-95	--	729	7.6	9.0	350	160	82	36	12
421252110113601		07-27-95	--	664	7.7	9.0	160	0	32	20	88
421301111023201		06-09-95	--	517	7.7	9.0	230	43	52	25	13
421313110255001		07-29-95	5.0	299	7.8	6.0	150	0	50	5.8	3.6
421405110275601		07-13-95	E20	260	7.9	6.0	150	7	44	8.9	3.4
421446110435701		07-11-95	E15	349	7.5	4.5	200	5	76	3.3	2.1
421509110185301		07-27-95	--	452	8.0	7.5	210	41	44	25	10
421541110313801		07-13-95	E3.0	590	7.6	8.0	270	27	77	19	19
421557110263201		07-13-95	30	354	7.7	5.5	190	3	64	7.8	2.5
421612110182301		07-12-95	2.0	350	7.7	8.0	260	67	57	28	12
421642110431901		07-11-95	E10	356	7.3	4.5	190	18	59	10	1.9
423238110533201		10-17-94	--	421	7.6	8.0	220	29	68	11	2.8
		03-06-95	--	416	7.8	7.0	210	37	67	11	3.1
		05-18-95	--	485	7.6	6.5	250	25	81	12	2.8
		07-25-95	--	464	7.5	7.5	250	15	80	11	2.5
424216110585501		10-17-94	--	540	7.4	10.0	260	48	76	16	11
		03-08-95	--	627	7.7	9.5	290	68	88	17	14
		05-18-95	--	564	7.6	9.5	260	53	76	16	16
		07-25-95	--	544	7.7	10.5	260	42	77	16	13
424423110570901		10-17-94	--	380	7.8	6.0	190	72	53	15	0.9
		03-06-95	--	411	8.1	4.5	210	85	58	16	1.0
		05-18-95	--	416	7.8	7.0	210	89	57	17	1.0
		07-25-95	--	357	8.0	6.0	190	41	51	14	0.90
424740110572601		10-17-94	--	481	7.5	9.5	250	44	74	15	1.9
		03-06-95	--	469	7.9	8.0	240	49	70	15	2.0
		05-18-95	--	473	7.7	9.0	240	48	71	15	2.0
		07-25-95	--	566	7.6	9.0	300	50	89	19	2.1
425135110592201		10-18-94	--	544	7.8	9.5	260	59	64	25	9.8
		03-07-95	--	510	7.8	5.0	250	33	61	23	9.0
		05-18-95	--	465	7.7	8.5	230	24	57	22	8.5
		07-25-95	--	520	7.8	9.5	260	30	64	24	9.1
425638111002201		10-17-94	--	416	7.5	8.0	210	32	53	20	1.1
		03-06-95	--	388	7.9	8.0	200	18	49	18	1.0
		05-19-95	--	413	7.8	8.5	210	34	53	20	1.1
		07-26-95	--	423	7.9	7.5	220	52	55	21	1.2
425855111020601		10-18-94	--	507	7.7	9.0	230	35	63	18	13
		03-07-95	--	508	7.8	9.5	230	37	63	18	14
		05-19-95	--	535	7.7	8.0	240	43	65	19	16
		07-26-95	--	506	7.8	8.0	230	31	63	18	15
425857110591901		10-18-94	--	377	7.8	8.0	200	24	49	18	1.2
		03-07-95	--	388	7.8	8.0	200	20	50	18	1.2
		05-19-95	--	380	7.8	8.0	200	15	49	18	1.2
		07-26-95	--	384	7.9	8.0	210	16	51	19	1.2
425857111021801		10-16-94	--	530	7.6	8.5	240	29	68	18	13
430057111003801		10-18-94	--	523	7.8	10.0	260	32	69	22	5.7
		03-07-95	--	560	7.6	9.0	290	42	75	24	6.6
		05-19-95	--	531	7.7	9.0	270	33	71	23	6.7
		07-26-95	--	532	7.8	10.0	270	29	70	23	6.1
430331111013301		10-18-94	--	351	7.9	8.0	180	21	44	16	2.8
		03-07-95	--	345	7.8	6.0	180	14	44	16	2.8
		05-19-95	--	345	7.8	7.0	180	19	45	17	2.8
		07-26-95	--	345	8.0	8.0	180	14	44	16	2.8
430441111003601		10-16-94	--	472	7.6	8.0	240	28	65	20	2.0
430444111003701		10-16-94	--	467	7.6	8.0	240	31	62	21	2.2

E-Estimate.

QUALITY OF GROUND WATER

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LINCOLN COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
420611110392801		08-01-95	0.0	1.0	165	187	202	14	1.1	0.1	<3
420754110423701		08-01-95	--	--	--	--	--	--	--	--	--
420837110490801		06-24-95	0.1	0.6	197	208	--	9.3	1.6	0.1	<3
420905110111401		07-29-95	0.8	2.0	291	303	355	120	7.5	0.1	<3
420906110582301		06-10-95	0.3	0.9	219	223	--	86	7.7	0.1	36
420958110192701		07-29-95	1	1.9	211	216	257	90	5.0	0.2	<3
420958110242401		07-30-95	--	--	--	--	--	--	--	--	--
421115111012701		06-10-95	2	1.7	--	228	--	46	97	0.1	6
421245110113001		07-27-95	1	1.1	244	251	298	110	6.7	0.3	<3
421247111024601		06-09-95	0.3	1.5	190	189	--	170	13	0.1	<3
421252110113601		07-27-95	3	1.6	240	244	293	110	6.4	0.3	<3
421301111023201		06-09-95	0.4	1.3	190	193	--	51	11	0.1	4
421313110255001		07-29-95	0.1	0.8	151	153	184	3.2	2.5	<0.1	<3
421405110275601		07-13-95	0.1	0.7	140	145	--	3.6	2.4	0.9	<3
421446110435701		07-11-95	0.1	0.8	198	200	--	3.8	0.9	0.1	<3
421509110185301		07-27-95	0.3	0.8	172	176	209	40	15	0.2	<3
421541110313801		07-13-95	0.5	2.5	243	245	--	37	20	0.4	<3
421557110263201		07-13-95	0.1	0.8	189	190	--	3.0	1.4	0.1	<3
421612110182301		07-12-95	0.3	0.4	191	194	--	55	18	0.1	<3
421642110431901		07-11-95	0.1	1.1	171	180	--	3.7	4.3	<0.1	4
423238110533201		10-17-94	0.1	0.7	186	191	--	36	0.8	<0.1	10
		03-06-95	0.1	0.7	176	173	--	46	0.9	<0.1	7
		05-18-95	0.1	0.7	227	236	--	26	1.0	<0.1	6
		07-25-95	0.1	0.9	229	237	280	16	0.8	<0.1	10
424216110585501		10-17-94	0.3	1.2	208	225	--	36	15	<0.1	6
		03-08-95	0.4	1.3	222	225	--	47	36	<0.1	<3
		05-18-95	0.4	1.1	203	172	--	41	31	0.1	6
		07-25-95	0.4	1.1	216	222	264	36	19	<0.1	7
424423110570901		10-17-94	0.0	0.7	122	132	--	66	0.5	0.3	12
		03-06-95	0.0	0.9	126	132	--	79	1.2	0.3	<3
		05-18-95	0.0	0.6	124	129	--	85	0.8	0.3	<3
		07-25-95	0.0	0.8	144	146	175	40	0.8	0.3	<3
424740110572601		10-17-94	0.0	1.2	203	214	--	41	1.4	0.1	10
		03-06-95	0.1	0.9	188	197	--	45	1.5	<0.1	8
		05-18-95	0.1	1.0	191	198	--	46	1.9	0.1	<3
425135110592201		07-25-95	0.0	1.2	250	252	305	45	4.0	0.1	<3
		10-18-94	0.3	1.1	204	232	--	51	10	0.1	<3
		03-07-95	0.2	1.1	214	219	--	41	8.6	<0.1	<3
		05-18-95	0.2	0.9	209	218	--	29	6.3	0.1	5
		07-25-95	0.2	1.1	228	230	279	40	9.2	0.1	<3
425638111002201		10-17-94	0.0	0.6	183	195	--	29	0.9	0.2	<3
		03-06-95	0.0	0.5	179	179	--	28	0.7	0.2	<3
		05-19-95	0.0	0.5	181	188	--	28	1.0	0.2	4
		07-26-95	0.0	0.5	172	196	210	27	1.2	0.2	4
425855111020601		10-18-94	0.4	0.9	196	207	--	38	17	0.1	4
		03-07-95	0.4	1.0	195	197	--	39	19	0.1	8
		05-19-95	0.4	0.7	198	205	--	41	27	0.2	9
		07-26-95	0.4	0.8	200	205	244	35	19	0.1	5
425857110591901		10-18-94	0.0	0.6	173	188	--	17	1.2	<0.1	<3
		03-07-95	0.0	0.6	179	184	--	17	1.1	<0.1	<3
		05-19-95	0.0	0.5	181	187	--	17	1.4	<0.1	<3
		07-26-95	0.0	0.6	189	190	231	17	1.4	<0.1	<3
425857111021801		10-16-94	0.4	1.0	215	222	--	39	16	0.1	<3
430057111003801		10-18-94	0.2	0.9	231	240	--	24	7.7	<0.1	<3
		03-07-95	0.2	1.0	245	252	--	25	8.7	<0.1	4
		05-19-95	0.2	0.9	239	247	--	25	6.6	<0.1	8
		07-26-95	0.2	0.7	240	244	293	25	8.6	<0.1	4
430331111013301		10-18-94	0.1	0.6	155	168	--	16	2.5	<0.1	<3
		03-07-95	0.1	0.6	161	165	--	15	2.3	<0.1	<3
		05-19-95	0.1	0.6	163	168	--	16	2.2	<0.1	4
		07-26-95	0.1	0.5	162	166	197	15	2.7	<0.1	<3
430441111003601		10-16-94	0.1	0.6	217	223	--	17	0.7	<0.1	<3
430444111003701		10-16-94	0.1	0.70	210	197	--	16	1.3	<0.1	<3

QUALITY OF GROUND WATER

LINCOLN COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P) (00671)
420611110392801		08-01-95	<1	6.6	194	--	--	--	--	--	--
420754110423701		08-01-95	--	--	--	--	--	--	--	--	--
420837110490801		06-24-95	<1	9.5	222	--	--	--	--	--	--
420905110111401		07-29-95	<1	21	490	--	0.75	<0.01	0.75	0.03	<0.01
420906110582301		06-10-95	<1	14	354	--	--	--	--	--	--
420958110192701		07-29-95	<1	20	361	--	0.18	<0.01	0.18	0.03	<0.01
420958110242401		07-30-95	--	--	--	--	--	--	--	--	--
42111511012701		06-10-95	<1	18	474	--	--	--	--	--	--
421245110113001		07-27-95	<1	11	411	--	0.10	<0.01	0.10	0.03	<0.01
421247110124601		06-09-95	<1	18	458	--	2.80	<0.01	2.80	<0.02	0.01
421252110113601		07-27-95	1	13	416	--	0.13	<0.01	0.13	0.03	<0.01
4213011101023201		06-09-95	1	15	306	--	4.90	<0.01	4.90	0.02	0.02
421313110255001		07-29-95	<1	13	170	--	--	--	--	--	--
421405110275601		07-13-95	<1	14	165	--	--	--	--	--	--
421446110435701		07-11-95	<1	6.1	213	--	--	--	--	--	--
421509110185301		07-27-95	<1	6.4	249	--	0.97	<0.01	0.97	0.03	<0.01
421541110313801		07-13-95	<1	12	334	--	--	--	--	--	--
421557110263201		07-13-95	<1	9.3	203	--	--	--	--	--	--
421612110182301		07-12-95	<1	7.0	294	--	--	--	--	--	--
421642110431901		07-11-95	<1	5.1	193	--	--	--	--	--	--
423238110533201		10-17-94	<1	7.9	243	20	0.16	<0.01	0.16	<0.02	0.02
		03-06-95	<1	6.9	240	--	0.11	<0.01	0.11	<0.02	0.02
		05-18-95	1	8.0	278	--	1.20	<0.01	1.20	<0.02	0.02
		07-25-95	<1	8.2	260	--	0.64	<0.01	0.64	0.05	0.01
424216110585501		10-17-94	<1	11	312	20	2.40	<0.01	2.40	<0.02	0.02
		03-08-95	<1	11	353	--	0.75	<0.01	0.75	<0.02	0.01
		05-18-95	<1	10	297	--	0.48	<0.01	0.48	<0.02	0.02
		07-25-95	<1	11	310	--	1.50	<0.01	1.50	0.04	<0.01
424423110570901		10-17-94	<1	4.9	222	10	0.38	<0.01	0.38	<0.02	<0.01
		03-06-95	<1	4.8	242	--	0.27	<0.01	0.27	<0.02	0.02
		05-18-95	<1	4.7	245	--	0.17	<0.01	0.17	<0.02	<0.01
		07-25-95	<1	5.1	201	--	0.35	<0.01	0.35	0.04	<0.01
424740110572601		10-17-94	<1	11	282	20	1.79	0.01	1.80	<0.02	0.02
		03-06-95	<1	10	271	--	1.90	<0.01	1.90	<0.02	0.02
		05-18-95	<1	10	274	--	1.80	<0.01	1.80	<0.02	0.02
425135110592201		07-25-95	<1	11	333	--	2.50	<0.01	2.50	0.03	0.01
		10-18-94	<1	12	315	20	0.60	<0.01	0.60	<0.02	0.02
		03-07-95	<1	11	289	--	0.58	<0.01	0.58	<0.02	0.04
		05-18-95	<1	12	269	--	0.59	<0.01	0.59	<0.02	0.04
		07-25-95	<1	12	300	--	0.64	<0.01	0.64	0.04	0.03
425638111002201		10-17-94	<1	6.2	233	<10	1.20	<0.01	1.20	<0.02	<0.01
		03-06-95	<1	5.7	215	--	1.00	<0.01	1.00	<0.02	<0.01
		05-19-95	<1	6.0	230	--	1.60	<0.01	1.60	<0.02	<0.01
		07-26-95	3	6.3	225	--	2.00	<0.01	2.00	0.04	<0.01
425855111020601		10-18-94	<1	8.7	286	20	0.67	<0.01	0.67	<0.02	<0.01
		03-07-95	<1	8.2	284	--	0.76	<0.01	0.76	<0.02	0.01
		05-19-95	<1	8.2	304	--	0.90	<0.01	0.90	<0.02	<0.01
		07-26-95	<1	8.4	283	--	0.75	<0.01	0.75	0.09	<0.01
425857110591901		10-18-94	<1	7.2	211	<10	0.81	0.01	0.82	<0.02	0.01
		03-07-95	<1	6.9	209	--	0.78	<0.01	0.78	<0.02	0.02
		05-19-95	<1	7.0	210	--	0.75	<0.01	0.75	<0.02	0.01
		07-26-95	<1	7.2	215	--	0.99	<0.01	0.99	0.07	0.01
425857111021801		10-16-94	<1	9.2	301	--	0.75	<0.01	0.75	<0.02	0.02
430057111003801		10-18-94	<1	9.2	297	20	3.20	<0.01	3.20	<0.02	<0.01
		03-07-95	<1	9.3	317	--	3.70	<0.01	3.70	<0.02	0.02
		05-19-95	<1	9.4	304	--	2.90	<0.01	2.90	<0.02	<0.01
		07-26-95	<1	9.2	301	--	3.20	<0.01	3.20	<0.02	<0.01
430331111013301		10-18-94	<1	5.7	194	<10	1.20	<0.01	1.20	0.02	<0.01
		03-07-95	<1	5.7	190	--	1.00	<0.01	1.00	<0.02	<0.01
		05-19-95	<1	5.8	194	--	0.90	<0.01	0.90	<0.02	<0.01
		07-26-95	<1	5.8	188	--	0.97	<0.01	0.97	<0.02	<0.01
430441111003601		10-16-94	<1	8.5	271	--	5.30	<0.01	5.30	<0.02	<0.01
430444111003701		10-16-94	<1	8.8	256	--	5.90	<0.01	5.90	<0.02	<0.01

QUALITY OF GROUND WATER

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TETON COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	GEO- LOGIC UNIT	LOCAL IDENT- I- FIER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)
433715110392801	111ALVM	42-115-09bdb01		09-12-94	1350	25.59	--
	111ALVM			07-14-95	0930	--	--
433932110430801	111ALVM	43-116-25cca01		05-31-89	1200	9.87	49.00
	111ALVM			09-06-89	1000	10.19	49.00
	111ALVM			05-31-90	1215	10.17	49.00
	111ALVM			09-04-90	1130	10.34	49.00
	111ALVM			06-04-91	0930	9.19	49.00
	111ALVM			09-04-91	0845	10.49	49.00
	111ALVM			06-03-92	0845	9.39	49.00
	111ALVM			09-10-92	1000	10.60	49.00
	111ALVM			06-02-93	1000	9.15	49.00
	111ALVM			09-08-93	1040	10.20	49.00
	111ALVM			06-01-94	1000	9.51	49.00
	111ALVM			09-07-94	0945	10.47	49.00
	111ALVM			10-26-94	1305	12.20	49.00
	111ALVM			06-02-95	1045	9.24	49.00
433939110424001	111ALVM	43-116-25dbd01		07-25-95	1000	9.30	49.00
	111ALVM			09-08-88	1045	15.39	48.60
	111ALVM			05-31-89	1015	14.14	48.60
	111ALVM			09-06-89	1130	14.13	48.60
	111ALVM			05-31-90	1320	15.98	48.60
	111ALVM			09-04-90	0930	14.28	48.60
	111ALVM			06-04-91	1030	12.12	48.60
	111ALVM			09-04-91	1000	14.69	48.60
	111ALVM			06-03-92	1015	12.94	48.60
	111ALVM			09-10-92	0815	14.70	48.60
	111ALVM			06-02-93	0845	12.89	48.60
	111ALVM			09-08-93	0905	14.19	48.60
	111ALVM			06-01-94	0840	12.69	48.60
	111ALVM			09-07-94	0830	14.49	48.60
	111ALVM			10-26-94	1210	16.58	48.60
433939110425601	111ALVM	43-116-25caa01		06-02-95	0900	12.37	48.60
	111ALVM			07-25-95	0800	13.26	48.60
	111ALVM			09-08-88	0930	14.84	42.80
	111ALVM			05-31-89	1330	13.40	42.80
	111ALVM			09-06-89	1330	13.62	42.80
	111ALVM			05-31-90	1400	14.47	42.80
	111ALVM			09-04-90	1245	12.79	42.80
	111ALVM			06-04-91	1100	12.51	42.80
	111ALVM			09-04-91	1050	13.98	42.80
	111ALVM			06-03-92	1115	12.71	42.80
	111ALVM			09-10-92	1120	14.18	42.80
	111ALVM			06-02-93	1120	12.34	42.80
	111ALVM			09-08-93	1220	13.62	42.80
	111ALVM			06-01-94	1115	12.81	42.80
	111ALVM			06-01-94	1145	12.81	42.80
	111ALVM			09-07-94	1110	13.95	42.80
	111ALVM			10-26-94	1405	15.90	42.80
	111ALVM			06-02-95	1215	12.47	42.80
	111ALVM			07-25-95	1210	12.69	42.80
434142110440101	111ALVM	43-116-14abc01		06-03-89	1615	38.98	160.00
	111ALVM			09-06-89	1500	37.71	160.00
	111ALVM			06-02-90	1000	61.50	160.00
	111ALVM			09-06-90	1015	42.48	160.00
	111ALVM			09-13-92	1015	50.15	160.00
	111ALVM			09-12-93	1515	37.17	160.00
	111ALVM			09-11-94	0800	48.84	160.00
	111ALVM			07-12-95	1200	--	160.00
434216110440301	111ALVM	43-116-11dbc01		09-11-94	0950	48.78	88.00
434234110434401	111ALVM	43-116-11adb01		09-11-94	0900	58.54	151.00
	111ALVM			07-13-95	1030	5.87	151.00
434438110433701	111ALVM	44-116-26ddd01		09-11-93	1515	67.75	95.00
	111ALVM			09-11-94	1100	93.09	95.00
434458110433101	111ALVM	44-116-26daa01		06-03-89	1515	--	250.00
	111ALVM			09-06-89	1615	107.58	250.00

QUALITY OF GROUND WATER

TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE OF (MM HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
433715110392801		09-12-94	395	7.5	8.0	--	9.4	102	--
		07-14-95	444	7.6	8.0	--	6.2	66	--
433932110430801		05-31-89	95	8.8	8.0	--	--	--	--
		09-06-89	95	8.9	9.5	--	--	--	--
		05-31-90	91	9.0	8.0	--	--	--	--
		09-04-90	62	9.3	11.0	--	--	--	--
		06-04-91	93	9.0	8.0	--	--	--	--
		09-04-91	101	8.7	9.0	--	--	--	--
		06-03-92	93	8.8	8.0	--	--	--	--
		09-10-92	96	9.0	9.0	--	--	--	<1
		06-02-93	99	8.5	8.5	--	--	--	<1
		09-08-93	101	8.4	9.0	--	--	--	<1
		06-01-94	98	8.4	9.0	--	5.9	65	<1
		09-07-94	99	8.5	9.0	--	6.1	67	<1
		10-26-94	96	8.3	9.0	--	5.8	64	<1
		06-02-95	101	8.8	9.0	--	6.4	71	<1
		07-25-95	102	8.6	9.0	--	5.7	64	<1
433939110424001		09-08-88	165	8.2	10.0	--	--	--	--
		05-31-89	220	8.2	9.5	--	--	--	--
		09-06-89	171	8.3	11.0	--	--	--	--
		05-31-90	198	8.3	9.5	--	--	--	--
		09-04-90	122	9.0	11.0	--	--	--	--
		06-04-91	206	8.5	9.0	--	--	--	--
		09-04-91	164	8.5	10.5	--	--	--	--
		06-03-92	172	8.2	9.5	--	--	--	--
		09-10-92	142	8.5	11.0	--	--	--	<1
		06-02-93	192	8.2	10.0	--	--	--	<1
		09-08-93	148	8.1	10.0	--	--	--	<1
		06-01-94	189	8.0	9.0	--	4.9	55	<1
		09-07-94	142	8.2	10.5	--	3.1	35	<1
		10-26-94	150	8.0	12.0	--	2.4	28	<1
		06-02-95	197	8.2	10.5	--	5.2	58	<1
433939110425601		07-25-95	155	8.2	10.0	--	3.9	44	<1
		09-08-88	139	8.1	8.0	--	--	--	--
		05-31-89	127	7.7	8.0	--	--	--	--
		09-06-89	141	7.8	10.5	--	--	--	--
		05-31-90	135	7.9	8.0	--	--	--	--
		09-04-90	135	7.8	10.5	--	--	--	--
		06-04-91	131	7.9	8.0	--	--	--	--
		09-04-91	142	7.9	10.0	--	--	--	--
		06-03-92	138	7.8	9.0	--	--	--	--
		09-10-92	142	7.8	10.0	--	--	--	<1
		06-02-93	133	7.3	7.5	--	--	--	<1
		09-08-93	150	7.4	10.0	--	--	--	<1
		06-01-94	138	7.5	8.0	--	6.7	73	<1
		06-01-94	138	7.6	8.0	--	6.6	72	--
		09-07-94	141	7.5	10.5	--	5.4	62	<1
		10-26-94	134	7.9	9.5	--	1.4	16	<1
434142110440101		06-02-95	140	7.7	8.0	--	7.1	79	<1
		07-25-95	143	7.6	10.0	--	5.4	60	<1
		06-03-89	59	6.6	7.5	--	--	--	--
		09-06-89	53	6.9	8.0	--	--	--	--
		06-02-90	60	6.8	7.5	--	--	--	--
		09-06-90	57	6.8	9.5	--	--	--	--
		09-13-92	57	6.8	7.5	--	--	--	--
		09-12-93	61	6.4	8.5	--	--	--	--
		09-11-94	58	6.4	7.5	--	10.2	110	--
		07-12-95	57	6.8	7.5	--	8.5	92	--
		09-11-94	43	6.3	7.5	--	10.8	116	--
		09-11-94	38	6.1	8.5	--	9.4	103	--
		07-13-95	35	6.7	8.0	--	9.2	95	--
		09-11-93	35	6.1	8.0	--	--	--	--
		09-11-94	34	6.1	8.5	--	9.2	104	--
434458110433101		06-03-89	80	9.2	8.0	--	--	--	--
		09-06-89	79	9.0	9.5	--	--	--	--

QUALITY OF GROUND WATER

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TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	ALKA- LINIT WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS ORTHOPHOS- PHATE DIS- SOLVED (MG/L AS P) (00671)
433715110392801		09-12-94	--	144	<0.01	0.11	0.04	<0.20	<0.01
		07-14-95	--	164	<0.01	0.50	<0.02	<0.20	<0.01
433932110430801		05-31-89	--	47	--	0.27	--	0.20	--
		09-06-89	--	49	--	0.23	--	--	--
		05-31-90	--	49	--	0.20	<0.01	<0.20	--
		09-04-90	--	35	--	0.10	0.02	<0.20	--
		06-04-91	--	50	--	--	--	--	--
		09-04-91	--	51	--	--	--	--	--
		06-03-92	--	46	--	--	--	--	--
		09-10-92	--	51	<0.01	0.14	0.01	<0.20	<0.01
		06-02-93	<1	48	--	--	--	--	--
		09-08-93	K8	49	<0.01	0.19	0.01	<0.20	<0.01
		06-01-94	<1	49	--	--	--	--	--
		09-07-94	<1	50	<0.01	0.14	0.02	<0.20	<0.01
		10-26-94	<1	46	--	--	--	--	--
		06-02-95	<1	50	--	--	--	--	--
433939110424001		07-25-95	<1	50	<0.01	0.22	0.02	<0.20	0.01
		09-08-88	--	84	--	--	--	--	--
		05-31-89	--	113	--	0.34	--	--	--
		09-06-89	--	90	--	<0.10	--	--	--
		05-31-90	--	99	--	0.20	<0.01	<0.20	--
		09-04-90	--	76	--	<0.10	0.02	<0.20	--
		06-04-91	--	102	--	--	--	--	--
		09-04-91	--	88	--	--	--	--	--
		06-03-92	--	89	--	--	--	--	--
		09-10-92	--	76	<0.01	<0.05	0.01	<0.20	<0.01
		06-02-93	<1	98	--	--	--	--	--
		09-08-93	<1	76	<0.01	<0.05	0.01	<0.20	<0.01
		06-01-94	<1	93	--	--	--	--	--
		09-07-94	<1	74	<0.01	0.06	0.02	<0.20	<0.01
		10-26-94	<1	73	--	--	--	--	--
433939110425601		06-02-95	<1	100	--	--	--	--	--
		07-25-95	<1	79	<0.01	0.08	0.04	<0.20	<0.01
		09-08-88	--	68	--	--	--	--	--
		05-31-89	--	56	--	0.21	--	--	--
		09-06-89	--	72	--	0.14	--	--	--
		05-31-90	--	71	--	0.20	<0.01	0.80	--
		09-04-90	--	74	--	<0.10	0.03	<0.20	--
		06-04-91	--	70	--	--	--	--	--
		09-04-91	--	75	--	--	--	--	--
		06-03-92	--	71	--	--	--	--	--
		09-10-92	--	74	<0.01	0.08	0.01	<0.20	<0.01
		06-02-93	<1	67	--	--	--	--	--
		09-08-93	23	71	<0.01	0.09	0.02	<0.20	<0.01
		06-01-94	<1	69	--	--	--	--	--
		06-01-94	--	--	--	--	--	--	--
		09-07-94	<1	72	<0.01	0.07	0.02	<0.20	<0.01
		10-26-94	<1	68	--	--	--	--	--
		06-02-95	<1	70	--	--	--	--	--
		07-25-95	K1	71	<0.01	0.15	0.05	<0.20	0.01
434142110440101		06-03-89	--	28	--	0.14	--	--	--
		09-06-89	--	27	--	0.18	--	--	--
		06-02-90	--	30	--	--	--	--	--
		09-06-90	--	28	--	--	--	--	--
		09-13-92	--	28	<0.01	0.18	<0.01	<0.20	<0.01
		09-12-93	--	26	<0.01	0.19	<0.01	<0.20	<0.01
		09-11-94	--	26	<0.01	0.18	0.03	<0.20	<0.01
		07-12-95	--	26	<0.01	0.18	<0.02	<0.20	<0.01
434216110440301		09-11-94	--	19	<0.01	0.14	<0.01	<0.20	<0.01
434234110434401		09-11-94	--	15	<0.01	0.12	0.01	<0.20	<0.01
		07-13-95	--	20	<0.01	0.11	0.02	<0.20	<0.01
434438110433701		09-11-93	--	14	<0.01	0.12	<0.01	<0.20	<0.01
		09-11-94	--	12	<0.01	0.16	<0.01	<0.20	0.13
434458110433101		06-03-89	--	38	--	0.15	--	--	--
		09-06-89	--	38	--	0.15	--	--	--

K - Results based on colony count outside the acceptable range (non-ideal colony count).

QUALITY OF GROUND WATER

TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	GEO- LOGIC UNIT	LOCAL IDENT- I- FIER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)
434458110433101	111ALVM	44-116-26daa01		06-02-90	0915	133.25	250.00
				09-06-90	1115	122.33	250.00
				06-04-91	1614	119.05	250.00
				09-04-91	1525	115.45	250.00
				06-03-92	1520	107.25	250.00
				09-13-92	0930	130.67	250.00
				09-11-93	1420	104.99	250.00
				09-11-94	1145	130.30	250.00
434700110424501	111ALVM	44-116-13abd01		06-03-89	1330	--	--
				09-09-89	1130	222.35	--
				06-01-90	1530	218.10	--
				09-06-90	1230	209.84	--
				06-04-91	1545	221.69	--
				09-04-91	1450	210.79	--
				06-04-92	1535	217.44	--
				09-13-92	0815	219.25	--
434904110364701	111ALVM	45-115-36cac01		09-12-93	0825	218.21	--
				09-12-94	0835	215.25	--
				09-04-90	1315	--	118.60
				09-04-90	1730	114.05	118.60
				09-05-90	1815	--	118.60
				09-04-91	1345	114.09	118.60
				06-03-92	1405	--	118.60
				06-03-92	1405	118.08	118.60
				09-08-88	1130	112.15	119.00
434920110365601	111ALVM	45-115-36bcd01		05-31-89	1530	114.36	119.00
				09-08-89	1710	116.07	119.00
				05-31-90	1050	116.74	119.00
				09-04-90	1410	117.12	119.00
				06-04-91	1400	114.30	119.00
				09-04-91	1250	115.31	119.00
				06-03-92	1340	116.22	119.00
				09-10-92	1310	115.98	119.00
				06-01-94	1300	115.41	119.00
434920110370801	111ALVM	45-115-36bcc01		06-03-94	1400	115.20	119.00
				09-09-94	1350	115.40	119.00
				10-26-94	0845	115.42	119.00
				06-02-95	1345	115.87	119.00
				07-25-95	1430	117.41	119.00
				09-08-89	1630	96.67	118.00
				05-31-90	0945	93.55	118.00
				09-04-90	1430	89.07	118.00
435018110365601	111ALVM	45-115-25bca01		06-04-91	1310	96.51	118.00
				09-04-91	1140	88.93	118.00
				09-04-91	1200	88.93	118.00
				06-03-92	1300	91.26	118.00
				09-09-92	0930	105.51	118.00
				09-08-93	1415	93.94	118.00
				06-01-94	1435	92.59	118.00
				09-07-94	1415	96.45	118.00
435025110362801	111ALVM	45-115-25abb01		10-26-94	1030	103.39	118.00
				06-02-95	1515	107.50	118.00
				07-25-95	1620	94.15	118.00
				11-06-95	1455	94.15	118.00
				09-11-92	1400	44.94	--
				09-11-93	1315	19.10	--
				09-11-93	1040	234.39	--
				09-11-94	1440	233.72	--
435039110305001	111ALVM	45-114-23ccd01		06-03-89	1115	16.95	--
				09-09-89	0945	11.30	--
				06-01-90	0930	11.27	--
				09-07-90	1045	10.93	--
				06-05-91	1530	9.21	--
				09-05-91	1500	11.36	--
				06-05-92	1350	10.02	--

QUALITY OF GROUND WATER

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TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
434458110433101		06-02-90	78	9.1	8.0	--	--	--	--
		09-06-90	78	8.8	9.0	--	--	--	--
		09-13-92	78	8.9	8.5	--	--	--	--
		09-11-93	80	8.5	9.0	--	--	--	--
		09-11-94	80	8.5	9.0	--	6.4	71	--
434700110424501		06-03-89	131	8.6	8.5	--	--	--	--
		09-09-89	145	8.6	11.0	--	--	--	--
		06-01-90	228	8.6	8.5	--	--	--	--
		09-06-90	176	8.5	12.0	--	--	--	--
		09-13-92	198	8.6	9.5	--	--	--	--
434904110364701		09-12-93	195	8.2	11.0	--	--	--	--
		09-12-94	200	8.0	9.5	--	8.1	92	--
		09-04-90	--	--	--	--	--	--	--
		09-05-90	266	8.0	8.0	--	--	--	--
		09-04-91	267	7.7	7.5	--	--	--	--
434920110365601		09-08-88	203	7.7	8.5	--	--	--	--
		05-31-89	166	7.8	8.0	--	--	--	--
		06-04-91	201	8.1	7.5	--	--	--	--
		09-10-92	189	8.2	13.0	--	--	--	<1
		06-01-94	198	7.8	10.0	--	--	--	--
434920110370801		06-03-94	210	7.8	10.5	--	9.6	123	<1
		09-09-94	208	7.8	14.5	--	8.4	107	<1
		10-26-94	206	7.8	5.0	--	10.4	106	<1
		06-02-95	210	8.0	13.5	--	--	--	<1
		07-25-95	201	8.1	--	--	--	--	<1
435018110365601		09-08-89	305	7.6	7.0	--	--	--	--
		05-31-90	235	8.0	7.0	--	--	--	--
		09-04-90	223	8.0	8.0	--	--	--	--
		06-04-91	254	8.1	8.0	--	--	--	--
		09-04-91	256	8.0	8.0	--	--	--	--
435018110365601		09-04-91	256	8.0	8.0	--	--	--	--
		06-03-92	234	8.0	8.0	--	--	--	--
		09-09-92	344	7.9	8.0	--	--	--	<1
		09-08-93	312	7.7	8.0	--	--	--	<1
		06-01-94	258	7.8	8.0	--	14.5	160	<1
435018110365601		09-07-94	390	7.7	8.5	--	10.4	113	<1
		10-26-94	411	7.6	7.5	--	9.3	101	<1
		06-02-95	331	7.9	8.5	--	4.2	47	<1
		07-25-95	340	7.9	8.5	--	10.2	113	<1
		11-06-95	535	7.9	7.0	590	10.1	108	<1
435025110362801		09-11-92	199	6.9	7.0	--	--	--	--
		09-11-93	181	6.9	7.0	--	--	--	--
		09-11-93	145	6.8	7.5	--	--	--	--
		09-11-94	153	7.0	8.5	--	7.3	88	--
		06-03-89	273	7.8	6.0	--	--	--	--
435039110305001		09-09-89	224	7.6	9.5	--	--	--	--
		06-01-90	199	7.6	5.5	--	--	--	--
		09-07-90	205	7.6	12.0	--	--	--	--

QUALITY OF GROUND WATER

TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
434458110433101		06-02-90	--	39	--	--	--	--	--
		09-06-90	--	40	--	--	--	--	--
		09-13-92	--	39	<0.01	0.17	<0.01	<0.20	<0.01
		09-11-93	--	37	<0.01	0.16	0.02	<0.20	<0.01
434700110424501		09-11-94	--	37	<0.01	0.20	0.02	<0.20	<0.01
		06-03-89	--	62	--	<0.10	--	<0.20	--
		09-09-89	--	70	--	0.11	--	--	--
		06-01-90	--	86	--	--	--	--	--
434904110364701		09-06-90	--	88	--	--	--	--	--
		09-13-92	--	95	<0.01	0.15	<0.01	<0.20	<0.01
		09-12-93	--	89	<0.01	0.16	0.02	<0.20	<0.01
		09-12-94	--	90	<0.01	0.18	0.02	<0.20	<0.01
434920110365601		09-04-90	--	--	--	--	--	--	--
		09-05-90	--	126	--	3.00	0.03	0.30	--
		09-04-91	--	122	0.01	3.30	0.02	0.20	<0.01
		09-08-88	--	93	--	--	--	--	--
434920110370801		05-31-89	--	66	--	0.69	--	0.30	--
		06-04-91	--	127	0.03	0.67	0.07	0.60	0.05
		09-10-92	--	93	<0.01	0.64	<0.01	<0.20	0.02
		06-01-94	--	105	--	--	--	--	--
434920110370801		06-03-94	<1	106	<0.01	0.66	0.03	<0.20	0.04
		09-09-94	<1	102	<0.01	0.99	0.04	<0.20	0.04
		10-26-94	<1	94	<0.01	0.71	0.02	<0.20	0.01
		06-02-95	<1	102	--	--	--	--	--
434920110370801		07-25-95	K2	100	<0.01	0.64	0.06	<0.20	0.02
		09-08-89	--	134	--	1.40	0.03	0.60	--
		05-31-90	--	107	--	0.30	<0.01	0.20	--
		09-04-90	--	95	--	0.10	0.02	<0.20	--
435018110365601		06-04-91	--	108	<0.01	0.56	<0.01	0.20	0.02
		09-04-91	--	113	--	--	--	--	--
		09-04-91	--	113	<0.01	0.96	<0.01	<0.20	0.01
		06-03-92	--	102	<0.01	0.49	0.06	<0.20	0.04
435018110365601		09-09-92	--	142	<0.01	2.40	0.01	<0.20	0.03
		09-08-93	K1	132	<0.01	1.50	0.03	<0.20	0.03
		06-01-94	<1	110	<0.01	0.70	0.04	<0.20	0.03
		09-07-94	<1	152	<0.01	3.10	0.03	<0.20	0.03
435018110365601		10-26-94	<1	163	<0.01	3.50	<0.02	<0.20	0.03
		06-02-95	<1	130	<0.01	2.00	0.04	<0.20	0.04
		07-25-95	<1	139	<0.01	2.30	0.03	<0.20	0.04
		11-06-95	<1	213	<0.01	5.30	<0.02	<0.20	0.03
435025110362801		09-11-92	--	83	<0.01	0.19	0.01	<0.20	0.02
		09-11-93	--	72	<0.01	0.26	<0.01	<0.20	0.03
		09-11-93	--	55	<0.01	0.12	0.01	<0.20	0.04
		09-11-94	--	54	<0.01	0.12	0.02	<0.20	0.04
435039110305001		06-03-89	--	134	--	0.21	--	0.20	--
		09-09-89	--	101	--	0.12	--	--	--
		06-01-90	--	90	--	--	--	--	--
		09-07-90	--	90	--	--	--	--	--

K - Results based on colony count outside the acceptable range (non-ideal colony count).

QUALITY OF GROUND WATER

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TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	GEO- LOGIC UNIT	LOCAL IDENT- I- FIER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)
435039110305001		111ALVM 45-114-23ccd01		09-12-92	1015	11.36	--
				09-12-93	1000	11.05	--
				09-12-94	1130	11.13	--
				10-28-94	1210	--	--
				10-28-94	1235	--	--
435122110351801 435354110372401		111ALVM 45-114-19abb01 112GLCL 45-115-02aac02		07-15-95	1030	15.48	--
				07-14-95	1530	67.86	--
				09-07-88	1400	6.95	38.00
				06-01-89	1100	2.52	38.00
				09-07-89	1145	5.24	38.00
				05-30-90	1145	3.38	38.00
				09-05-90	1130	5.21	38.00
				06-05-91	1055	2.75	38.00
				09-05-91	1125	4.85	38.00
				06-04-92	1030	4.74	38.00
				09-09-92	1600	5.00	38.00
				06-03-93	1100	2.19	38.00
				09-09-93	1120	5.12	38.00
				06-02-94	1115	4.27	38.00
				06-02-94	1145	4.27	38.00
				09-08-94	1415	6.05	38.00
				10-27-94	1045	6.20	38.00
				06-03-95	1200	2.24	38.00
				07-26-95	1325	4.15	38.00
435354110373201 435355110372401		111ALVM 45-115-02aca01 45-115-02aac01		06-04-95	1700	0.03	5.15
				06-06-95	1330	0.0	5.15
				07-26-95	1430	1.68	5.15
				09-07-88	1315	6.33	32.80
				06-01-89	1000	2.77	32.80
				09-07-89	1045	5.62	32.80
				05-30-90	1040	3.78	32.80
				09-05-90	1045	5.60	32.80
				06-05-91	1005	3.07	32.80
				09-05-91	1030	5.24	32.80
				06-04-92	0950	5.14	32.80
				09-09-92	1520	5.35	32.80
				06-03-93	1000	2.43	32.80
				09-09-93	1010	5.49	32.80
				06-02-94	1020	4.65	32.80
				09-08-94	1320	6.44	32.80
				10-27-94	0950	6.60	32.80
				06-03-95	1045	2.46	32.80
				07-26-95	1145	4.51	32.80
435357110374101 435403110372001		111ALVM 45-115-02abc01 45-115-02aab01		09-08-88	1630	4.72	38.35
				06-01-89	1315	2.67	38.35
				09-07-89	1345	3.80	38.35
				09-09-89	1345	--	38.35
				05-30-90	1520	3.12	38.35
				09-05-90	1345	3.86	38.35
				06-05-91	1315	2.94	38.35
				09-05-91	1230	3.80	38.35
				09-05-91	1300	--	38.35
				06-04-92	1245	3.59	38.35
				09-09-92	1145	4.03	38.35
				06-03-93	1335	2.63	38.35
				09-09-93	1350	3.68	38.35
				06-02-94	1345	2.66	38.35
				06-02-94	1415	2.66	38.35
				09-08-94	1100	4.29	38.35
				10-27-94	1300	4.15	38.35
				06-03-95	1350	2.59	38.35
				07-26-95	1640	3.29	38.35
				11-08-95	1120	3.74	38.35
				09-07-88	1155	11.37	32.45
				06-01-89	1200	6.45	32.45

QUALITY OF GROUND WATER

TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
435039110305001		09-12-92	217	7.4	10.5	--	--	--	--
		09-12-93	210	7.3	9.5	--	--	--	--
		09-12-94	209	7.1	9.0	--	1.6	19	--
		10-28-94	211	7.1	10.0	--	--	--	--
		10-28-94	215	7.4	9.0	--	--	--	--
435122110351801 435354110372401		07-15-95	180	7.5	7.0	--	5.6	59	--
		07-14-95	276	7.7	8.0	--	0.2	2	--
		09-07-88	80	6.5	8.5	--	--	--	--
		06-01-89	62	6.6	4.5	--	--	--	--
		09-07-89	68	6.7	8.0	--	--	--	--
		05-30-90	81	6.8	5.0	--	--	--	--
		09-05-90	96	6.6	9.0	--	--	--	--
		06-05-91	66	6.9	5.0	--	--	--	--
		09-05-91	74	6.8	8.0	--	--	--	--
		06-04-92	103	6.8	6.0	--	--	--	--
		09-09-92	96	6.6	9.0	--	--	--	<1
		06-03-93	61	6.0	4.5	--	--	--	<1
		09-09-93	73	6.5	7.5	--	--	--	K1
		06-02-94	102	6.4	5.0	--	4.4	44	<1
		06-02-94	102	6.4	5.0	--	4.3	43	--
		09-08-94	104	6.5	8.5	--	2.5	28	<1
		10-27-94	107	6.2	8.0	--	4.8	53	<1
		06-03-95	68	6.6	4.5	--	8.7	89	<1
		07-26-95	61	6.6	6.0	--	7.8	78	K1
		06-04-95	81	6.8	8.5	--	0.5	7	<1
435354110373201 435355110372401		06-06-95	81	6.7	8.5	--	1.0	13	K1
		07-26-95	140	6.6	14.5	--	0.7	7	<1
		09-07-88	77	6.6	8.5	--	--	--	--
		06-01-89	39	6.8	5.0	--	--	--	--
		09-07-89	68	6.7	8.5	--	--	--	--
		05-30-90	77	6.8	5.0	--	--	--	--
		09-05-90	88	6.6	9.5	--	--	--	--
		06-05-91	62	6.9	5.0	--	--	--	--
		09-05-91	72	6.7	8.0	--	--	--	--
		06-04-92	96	6.6	6.0	--	--	--	--
		09-09-92	94	6.9	9.0	--	--	--	<1
		06-03-93	65	6.2	4.5	--	--	--	<1
		09-09-93	73	6.4	7.5	--	--	--	<1
		06-02-94	96	6.3	5.5	--	5.1	51	<1
		09-08-94	101	6.4	8.5	--	2.4	25	<1
		10-27-94	109	6.4	8.0	--	4.5	50	<1
		06-03-95	75	6.8	4.5	--	8.2	84	<1
		07-26-95	62	6.4	6.5	--	6.9	69	<1
		09-08-88	551	6.6	11.5	--	--	--	--
		06-01-89	145	6.8	6.5	--	--	--	--
435357110374101 435403110372001		09-07-89	461	6.5	11.0	--	--	--	--
		05-30-90	272	6.8	6.5	--	--	--	--
		09-05-90	463	6.5	11.0	--	--	--	--
		06-05-91	210	7.0	6.5	--	--	--	--
		09-05-91	414	6.7	11.5	--	--	--	--
		06-04-92	239	6.6	8.0	--	--	--	--
		09-09-92	450	6.5	11.0	--	--	--	<1
		06-03-93	204	6.3	6.0	--	--	--	<1
		09-09-93	566	6.4	10.5	--	--	--	K1
		06-02-94	268	6.2	6.5	--	0.2	2	<1
		06-02-94	280	6.4	6.5	--	0.4	4	--
		09-08-94	609	6.3	11.5	--	0	0	<1
		10-27-94	642	6.4	10.5	--	1.4	16	<1
		06-03-95	180	7.0	6.0	--	0.2	2	K4
		07-26-95	441	6.5	13.0	--	0.1	1	<1
		11-08-95	552	6.7	10.0	597	0.3	3	<1
		09-07-88	90	6.8	8.5	--	--	--	--
		06-01-89	103	6.9	5.5	--	--	--	--

K - Results based on colony count outside the acceptable range (non-ideal colony count).

QUALITY OF GROUND WATER

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TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CAC03 (00410)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
435039110305001		09-12-92	--	90	<0.01	0.10	<0.01	<0.20	<0.01
		09-12-93	--	93	<0.01	0.13	0.01	<0.20	<0.01
		09-12-94	--	84	<0.01	0.10	0.03	<0.20	0.01
		10-28-94	--	84	--	--	--	--	--
		10-28-94	--	87	--	--	--	--	--
435122110351801 435354110372401		07-15-95	--	81	<0.01	0.17	0.02	<0.20	0.01
		07-14-95	--	140	<0.01	0.22	0.02	<0.20	0.03
		09-07-88	--	36	--	--	--	--	--
		06-01-89	--	23	--	0.84	--	--	--
		09-07-89	--	32	--	0.34	0.02	0.70	--
		05-30-90	--	40	--	0.20	<0.01	0.30	--
		09-05-90	--	43	--	0.30	0.02	<0.20	--
		06-05-91	--	33	--	--	--	--	--
		09-05-91	--	37	--	--	--	--	--
		06-04-92	--	50	--	--	--	--	--
		09-09-92	--	47	<0.01	0.23	0.02	<0.20	<0.01
		06-03-93	K1	23	--	--	--	--	--
		09-09-93	<1	32	<0.01	0.18	0.03	<0.20	0.01
		06-02-94	<1	46	--	--	--	--	--
		09-08-94	<1	49	<0.01	0.25	0.02	<0.20	0.01
435354110373201		10-27-94	<1	50	--	--	--	--	--
		06-03-95	<1	30	--	--	--	--	--
		07-26-95	<1	27	<0.01	0.26	0.03	<0.20	0.02
		06-04-95	K4	29	--	--	--	--	--
		06-06-95	K1	31	--	--	--	--	--
435355110372401		07-26-95	K2	43	<0.01	<0.05	0.07	<0.20	0.03
		09-07-88	--	36	--	--	--	--	--
		06-01-89	--	16	--	0.78	--	--	--
		09-07-89	--	33	--	0.34	0.03	2.0	--
		05-30-90	--	40	--	0.30	<0.01	<0.20	--
		09-05-90	--	47	--	0.10	0.07	0.40	--
		06-05-91	--	31	--	--	--	--	--
		09-05-91	--	36	--	--	--	--	--
		06-04-92	--	44	--	--	--	--	--
		09-09-92	--	49	<0.01	0.20	0.05	<0.20	<0.01
		06-03-93	<1	26	--	--	--	--	--
		09-09-93	K7	32	<0.01	0.17	0.02	<0.20	0.01
		06-02-94	<1	44	--	--	--	--	--
		09-08-94	<1	46	<0.01	0.24	0.03	<0.20	0.01
435357110374101		10-27-94	<1	50	--	--	--	--	--
		06-03-95	<1	43	--	--	--	--	--
		07-26-95	K11	27	<0.01	0.22	0.04	<0.20	0.01
		09-08-88	--	162	--	--	--	--	--
		06-01-89	--	51	--	0.10	--	1.5	--
		09-07-89	--	135	--	--	3.40	3.8	--
		09-09-89	--	--	--	<0.10	--	--	--
		05-30-90	--	76	--	<0.10	1.80	2.3	--
		09-05-90	--	130	--	<0.10	2.60	3.0	--
		06-05-91	--	79	<0.01	<0.05	1.20	1.3	0.29
		09-05-91	--	121	--	--	--	--	--
		09-05-91	--	--	<0.01	<0.05	1.90	2.3	0.25
		06-04-92	--	76	<0.01	<0.05	1.30	1.5	0.17
		09-09-92	--	112	<0.01	<0.05	1.80	2.2	0.21
		06-03-93	<1	66	<0.01	<0.05	0.88	1.2	0.03
435403110372001		09-09-93	K10	117	<0.01	<0.05	1.70	2.2	0.08
		06-02-94	<1	56	<0.01	0.06	0.63	0.8	<0.01
		09-08-94	<1	144	<0.01	<0.05	1.30	1.8	0.06
		10-27-94	<1	155	<0.01	<0.05	1.40	1.8	0.11
		06-03-95	<1	69	<0.01	<0.05	0.62	0.9	0.77
		07-26-95	K1	110	<0.01	<0.05	1.30	1.9	0.60
		11-08-95	<1	125	<0.01	<0.05	1.50	2.3	0.67
		09-07-88	--	40	--	--	--	--	--
		06-01-89	--	41	--	0.21	--	--	--

K - Results based on colony count outside the acceptable range (non-ideal colony count).

QUALITY OF GROUND WATER

TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	GEO- LOGIC UNIT	LOCAL IDENT- I- FIER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)
435403110372001	111ALVM	45-115-02aab01		09-07-89	0945	10.57	32.45
				05-30-90	1240	8.25	32.45
				09-05-90	0945	10.62	32.45
				06-05-91	0905	7.12	32.45
				09-05-91	0900	10.10	32.45
				06-04-92	0900	9.95	32.45
				09-09-92	1420	10.31	32.45
				06-03-93	0845	5.75	32.45
				09-09-93	0900	10.44	32.45
				06-02-94	0855	9.39	32.45
				09-08-94	1200	11.42	32.45
				10-27-94	0845	11.61	32.45
				06-03-95	0920	5.46	32.45
				07-26-95	1030	9.33	32.45
				09-07-88	1500	11.43	36.30
				06-01-89	1430	5.97	36.30
				09-07-89	1230	10.67	36.30
435407110374001	111ALVM	45-115-02abb01		05-30-90	1405	8.23	36.30
				09-05-90	1245	10.88	36.30
				06-05-91	1145	7.04	36.30
				09-05-91	1200	10.63	36.30
				06-04-92	1115	10.21	36.30
				09-09-92	1300	10.96	36.30
				06-03-93	1210	5.13	36.30
				09-09-93	1240	10.42	36.30
				06-02-94	1240	9.70	36.30
				09-08-94	0915	11.30	36.30
				10-27-94	1150	11.62	36.30
				06-03-95	1505	4.53	36.30
				07-26-95	0900	9.19	36.30
				11-08-95	0930	11.04	36.30
				06-02-89	1750	3.98	175.00
				09-07-89	1545	27.30	175.00
435427110350901	111ALVM	46-114-31ca1		06-02-90	1125	15.08	175.00
				09-06-90	1650	28.84	175.00
				06-05-91	1505	17.65	175.00
				09-05-91	1435	24.97	175.00
				06-04-92	1355	E26.40	175.00
				09-12-92	1240	39.57	175.00
				09-11-93	0810	30.32	175.00
				09-12-94	1000	36.03	175.00
435512110335801	111ALVM	46-114-29db2		07-14-95	1200	6.51	175.00
				06-02-89	1648	19.72	250.00
				09-07-89	1640	37.89	250.00
				06-01-90	1045	30.64	250.00
				09-06-90	1750	60.36	250.00
				06-05-91	1445	32.12	250.00
				09-05-91	1420	55.66	250.00
				06-04-92	1342	E48.47	250.00
				09-12-92	0900	72.50	250.00
435519110335401	111ALVM	46-114-29db1					
				09-11-93	0900	55.75	250.00
				09-10-94	0910	70.58	250.00
				06-02-89	1700	13.83	200.00
				09-07-89	1645	29.91	200.00
				06-01-90	1020	21.00	200.00
				09-06-90	1815	46.01	200.00
				06-05-91	1430	15.77	200.00
				09-05-91	1420	42.42	200.00
435555110382001	111ALVM	46-115-23ccc01		06-04-92	1330	E39.30	200.00
				09-12-92	1320	55.36	200.00
				09-11-93	0930	42.53	200.00
				09-10-94	1020	56.77	200.00
	111ALVM			06-02-89	1430	71.09	--
				09-08-89	1430	67.94	--
				06-01-90	1340	63.30	--

E - Estimate.

QUALITY OF GROUND WATER

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TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
435403110372001		09-07-89	91	6.9	8.5	--	--	--	--
		05-30-90	76	6.8	5.5	--	--	--	--
		09-05-90	97	6.9	9.5	--	--	--	--
		06-05-91	88	7.0	5.5	--	--	--	--
		09-05-91	86	6.7	9.0	--	--	--	--
		06-04-92	73	6.6	6.0	--	--	--	--
		09-09-92	92	6.7	9.0	--	--	--	<1
		06-03-93	103	6.9	5.5	--	--	--	<1
		09-09-93	80	6.4	8.0	--	--	--	<1
		06-02-94	66	6.4	6.0	--	11.6	118	<1
		09-08-94	80	6.4	9.0	--	2.8	32	<1
		10-27-94	78	6.3	9.0	--	6.7	75	<1
		06-03-95	101	6.9	5.0	--	4.6	47	<1
		07-26-95	90	6.8	7.0	--	4.3	43	<1
		09-07-88	67	6.3	6.5	--	--	--	--
		06-01-89	53	6.5	5.0	--	--	--	--
		09-07-89	67	6.3	6.5	--	--	--	--
		05-30-90	69	6.7	5.0	--	--	--	--
435407110374001		09-05-90	75	6.7	6.5	--	--	--	--
		06-05-91	64	6.7	5.5	--	--	--	--
		09-05-91	64	6.6	6.5	--	--	--	--
		06-04-92	65	6.5	5.5	--	--	--	--
		09-09-92	71	6.6	6.5	--	--	--	<1
		06-03-93	58	5.8	5.0	--	--	--	<1
		09-09-93	64	5.9	6.5	--	--	--	<1
		06-02-94	68	6.0	5.5	--	7.4	74	<1
		09-08-94	68	6.3	6.0	--	4.0	42	<1
		10-27-94	72	6.0	6.5	--	6.3	67	<1
		06-03-95	54	6.4	5.0	--	7.0	72	<1
		07-26-95	60	6.3	5.0	--	5.8	58	<1
		11-08-95	66	6.4	7.0	597	4.1	43	<1
		06-02-89	166	7.1	6.0	--	--	--	--
		09-07-89	163	7.1	6.0	--	--	--	--
		06-02-90	169	7.1	6.0	--	--	--	--
		09-12-92	177	7.1	6.0	--	--	--	--
		09-11-93	177	7.0	6.0	--	--	--	--
435427110350901		09-12-94	176	6.7	6.5	--	9.0	96	--
		07-14-95	168	7.1	6.5	--	8.0	84	--
		06-02-89	--	--	--	--	--	--	--
		06-01-90	215	8.1	9.0	--	--	--	--
435512110335801		09-06-90	206	8.0	7.0	--	--	--	--
		09-12-92	212	7.9	10.5	--	--	--	--
		09-11-93	214	7.7	7.5	--	--	--	--
		09-10-94	216	7.7	12.5	--	6.1	75	--
435519110335401		06-02-89	--	--	--	--	--	--	--
		09-12-92	223	7.6	6.5	--	--	--	--
		09-11-93	196	7.5	5.0	--	--	--	--
435555110382001		09-10-94	219	7.5	5.5	--	4.5	47	--
		06-02-89	63	6.4	6.0	--	--	--	--
		09-08-89	126	6.5	6.5	--	--	--	--
		06-01-90	154	6.7	6.5	--	--	--	--

QUALITY OF GROUND WATER

TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	STREP- TOCOC FECAL, KF AGAR (COLS. PER 100 ML) (31673)	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
435403110372001	09-07-89	09-07-89	--	45	--	0.25	0.01	0.20	--
		05-30-90	--	37	--	0.10	0.04	0.80	--
		09-05-90	--	52	--	0.20	0.03	<0.20	--
		06-05-91	--	48	--	--	--	--	--
		09-05-91	--	42	--	--	--	--	--
	06-04-92	06-04-92	--	33	--	--	--	--	--
		09-09-92	--	46	<0.01	0.18	0.01	<0.20	<0.01
		06-03-93	<1	48	--	--	--	--	--
		09-09-93	K6	35	<0.01	0.20	<0.01	<0.20	0.01
		06-02-94	<1	30	--	--	--	--	--
	09-08-94	09-08-94	<1	36	<0.01	0.19	0.02	<0.20	0.01
		10-27-94	<1	36	--	--	--	--	--
		06-03-95	<1	48	--	--	--	--	--
		07-26-95	56	39	<0.01	0.22	0.03	<0.20	0.01
		09-07-88	--	30	--	--	--	--	--
435407110374001	06-01-89	06-01-89	--	16	--	<0.10	--	<0.20	--
		09-07-89	--	30	--	0.14	0.03	0.40	--
		05-30-90	--	38	--	0.10	<0.01	0.40	--
		09-05-90	--	38	--	<0.10	0.06	<0.20	--
		06-05-91	--	32	--	--	--	--	--
	09-05-91	09-05-91	--	30	--	--	--	--	--
		06-04-92	--	32	--	--	--	--	--
		09-09-92	--	35	<0.01	0.16	0.06	<0.20	0.01
		06-03-93	<1	24	--	--	--	--	--
		09-09-93	K1	26	<0.01	0.19	0.03	<0.20	0.02
	06-02-94	06-02-94	<1	30	--	--	--	--	--
		09-08-94	<1	31	<0.01	0.19	0.02	<0.20	0.02
		10-27-94	<1	31	--	--	--	--	--
		06-03-95	<1	23	--	--	--	--	--
		07-26-95	<1	25	<0.010	0.16	0.04	<0.20	0.02
435427110350901	11-08-95	11-08-95	<1	29	<0.01	0.15	0.02	<0.20	0.02
		06-02-89	--	84	--	0.16	--	<0.20	--
		09-07-89	--	83	--	0.17	--	--	--
		06-02-90	--	87	--	--	--	--	--
	09-05-91	09-05-91	--	--	--	--	--	--	--
		09-12-92	--	91	<0.01	0.19	0.02	<0.20	0.03
		09-11-93	--	81	<0.01	0.21	<0.01	<0.20	0.03
	09-12-94	09-12-94	--	88	<0.01	0.21	0.03	<0.20	0.03
		07-14-95	--	82	<0.01	0.18	<0.02	<0.20	0.03
		06-02-89	--	--	--	--	--	--	--
435512110335801	06-01-90	06-01-90	--	112	--	--	--	--	--
		09-06-90	--	105	--	--	--	--	--
	09-12-92	09-12-92	--	110	<0.01	0.07	<0.01	<0.20	<0.01
		09-11-93	--	107	<0.01	0.06	0.02	<0.20	<0.01
435519110335401	09-10-94	09-10-94	--	108	<0.01	0.08	0.01	<0.20	<0.01
		06-02-89	--	--	--	--	--	--	--
	09-12-92	09-12-92	--	113	<0.01	0.07	0.01	<0.20	<0.01
435555110382001	09-11-93	09-11-93	--	99	<0.01	<0.05	0.04	<0.20	<0.01
		09-10-94	--	108	<0.01	0.08	0.03	<0.20	<0.01
		06-02-89	--	27	--	0.50	--	0.20	--
	09-08-89	09-08-89	--	51	--	0.67	--	--	--
		06-01-90	--	62	--	--	--	--	--

K - Results based on colony count outside the acceptable range (non-ideal colony count).

QUALITY OF GROUND WATER

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TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	GEO- LOGIC UNIT	LOCAL IDENT- I- FIER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)
435555110382001	111ALVM	46-115-23ccc01		09-06-90	1415	66.98	--
				06-05-91	1410	62.75	--
				09-05-91	1350	65.73	--
				06-05-92	1300	62.69	--
				09-11-92	1315	85.61	--
				09-12-93	1105	66.57	--
				09-10-94	1430	77.05	--
				09-10-94	1315	24.69	--
				09-10-94	1210	10.45	--
440018110405201	111ALVM	47-115-31ca01		09-06-91	1100	27.70	--
440553110401301	111ALVM	48-115-28acb01					
440645110401101	111ALVM	48-115-21bc02					
	111ALVM			06-05-92	1125	27.24	--
				09-11-92	1100	28.93	--
				06-04-93	1210	24.32	--
				09-10-93	1045	27.39	--
				06-03-94	1110	27.00	--
				09-09-94	1200	28.77	--
				10-28-94	1035	28.32	--
				06-04-95	1330	23.83	--
				11-07-95	1430	25.50	--
440645110402001	111ALVM	48-115-21bc01		09-07-88	1700	26.70	37.30
	111ALVM			06-02-89	1300	22.61	37.30
				09-08-89	1215	25.84	37.30
				06-02-90	1415	24.95	37.30
				09-05-90	1600	26.05	37.30
				06-06-91	1000	23.20	37.30
				09-06-91	1155	26.14	37.30
				09-06-91	1220	--	37.30
				06-05-92	0745	--	37.30
				06-05-92	0945	25.74	37.30
	111ALVM			09-10-92	1515	27.25	37.30
				06-04-93	1100	23.05	37.30
				09-10-93	0900	25.79	37.30
				06-03-94	0900	25.54	37.30
				09-09-94	1045	27.10	37.30
				10-28-94	0940	27.66	37.30
				06-04-95	1215	22.61	37.30
				07-27-95	1225	24.03	37.30
440657110402601	111ALVM	48-115-21bb02		11-07-95	1250	26.62	37.30
				06-02-89	1145	3.28	--
				09-08-89	1200	4.93	--
				06-02-90	1335	6.61	--
				09-06-90	1525	6.84	--
				06-06-91	1115	4.63	--
				09-06-91	0930	5.72	--
				09-06-91	1020	--	--
	111ALVM			06-05-92	1050	8.27	--
				09-11-92	1015	9.20	--
				06-04-93	0950	4.85	--
				09-10-93	1400	5.14	--
				06-03-94	1005	37.70	--
				09-09-94	1000	8.15	--
				06-04-95	0910	3.67	--
				07-27-95	0855	34.37	--
				11-07-95	1030	6.61	--
440659110402001	111ALVM	48-115-21bb01		06-02-89	1215	6.81	--
	111ALVM			09-08-89	1130	8.11	--
				06-02-90	1300	30.72	--
				09-06-90	1540	9.20	--
				06-06-91	1035	7.80	--
				09-06-91	0920	9.09	--
				09-06-91	0945	--	--
				06-05-92	1020	13.50	--
				09-11-92	0945	12.63	--
				06-04-93	0915	12.63	--
	111ALVM			09-10-93	1330	8.36	--

E - Estimate.

QUALITY OF GROUND WATER

TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
435555110382001		09-06-90	127	6.5	7.0	--	--	--	--
		09-11-92	98	6.2	7.0	--	--	--	--
		09-12-93	119	6.4	7.0	--	--	--	--
		09-10-94	115	6.0	7.5	--	3.8	41	--
440018110405201		09-10-94	223	7.9	5.5	--	8.3	87	--
440553110401301		09-10-94	193	8.0	8.0	--	3.8	43	--
440645110401101		09-06-91	284	8.2	8.0	--	--	--	--
		06-05-92	275	8.1	7.5	--	--	--	--
		09-11-92	265	8.1	8.0	--	--	--	<1
		06-04-93	264	7.6	7.0	--	--	--	<1
		09-10-93	285	7.9	7.5	--	--	--	<1
		06-03-94	280	7.7	7.5	--	8.2	89	<1
		09-09-94	281	7.8	8.5	--	7.5	83	<1
		10-28-94	271	7.7	7.0	--	9.3	102	<1
		06-04-95	270	8.0	--	--	7.3	97	<1
		11-07-95	270	7.5	6.0	595	6.8	70	<1
440645110402001		09-07-88	259	7.7	7.0	--	--	--	--
		06-02-89	277	7.8	7.0	--	--	--	--
		09-08-89	445	7.6	7.0	--	--	--	--
		06-02-90	304	7.9	7.5	--	--	--	--
		09-05-90	593	7.3	7.5	--	--	--	--
		06-06-91	290	8.0	8.5	--	--	--	--
		09-06-91	293	8.0	7.5	--	--	--	--
		06-05-92	285	7.9	7.5	--	--	--	--
		09-10-92	287	7.8	7.5	--	--	--	<1
		06-04-93	279	7.6	7.5	--	--	--	<1
		09-10-93	307	7.6	6.5	--	--	--	<1
		06-03-94	294	7.7	7.5	--	7.7	84	<1
		09-09-94	336	7.7	7.0	--	6.9	74	<1
		10-28-94	615	7.5	7.0	--	2.7	30	<1
		06-04-95	293	7.8	8.0	--	7.1	95	<1
		07-27-95	349	7.7	8.0	--	7.2	98	<1
		11-07-95	314	7.7	6.0	595	7.7	79	<1
440657110402601		06-02-89	--	--	--	--	--	--	--
		06-06-91	484	7.9	18.5	--	--	--	--
		09-06-91	488	7.8	19.0	--	--	--	--
		06-05-92	488	7.8	18.5	--	--	--	--
		09-11-92	482	7.8	18.5	--	--	--	--
		06-04-93	472	7.7	18.5	--	--	--	--
		09-10-93	485	7.6	19.5	--	--	--	--
		06-03-94	470	7.5	19.0	--	5.0	70	--
		09-09-94	487	7.6	19.0	--	4.3	61	--
		06-04-95	492	7.7	18.5	--	4.4	59	--
		07-27-95	483	7.6	19.0	--	4.5	61	<1
		11-07-95	479	7.6	18.0	595	4.1	56	<1
440659110402001		06-02-89	468	7.9	15.0	--	--	--	--
		09-08-89	--	--	--	--	--	--	--
		06-02-90	401	7.8	16.0	--	--	--	--
		09-06-90	470	7.8	18.0	--	--	--	--
		06-06-91	398	8.0	16.0	--	--	--	--
		09-06-91	398	7.9	16.0	--	--	--	--
		06-05-92	400	7.9	16.0	--	--	--	--
		09-11-92	396	7.8	16.0	--	--	--	--
		06-04-93	394	7.9	16.0	--	--	--	--
		09-10-93	403	7.6	16.5	--	--	--	--

QUALITY OF GROUND WATER

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TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	DATE	STREP- TOCOCCEI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
435555110382001		09-06-90	--	51	--	--	--	--	--
		09-11-92	--	40	<0.01	0.76	<0.01	<0.20	0.03
		09-12-93	--	46	<0.01	0.65	0.03	<0.20	0.05
440018110405201		09-10-94	--	42	<0.01	0.71	0.03	<0.20	0.04
		09-10-94	--	112	<0.01	0.15	0.03	<0.20	0.01
		09-10-94	--	97	<0.01	0.08	0.02	<0.20	0.02
440645110401101		09-06-91	--	140	<0.01	0.55	0.01	<0.20	<0.01
		06-05-92	--	134	<0.01	0.17	0.03	<0.20	0.01
		09-11-92	--	134	<0.01	0.13	<0.01	<0.20	<0.01
		06-04-93	<1	128	<0.01	0.17	0.03	<0.20	0.01
		09-10-93	<1	124	<0.01	0.61	<0.01	<0.20	0.02
		06-03-94	<1	134	<0.01	0.22	0.03	<0.20	0.01
		09-09-94	<1	132	<0.01	0.35	0.02	<0.20	0.02
		10-28-94	<1	130	<0.01	0.19	<0.02	<0.20	<0.01
		06-04-95	<1	130	--	--	--	--	--
440645110402001		11-07-95	<1	135	<0.01	0.26	<0.02	<0.20	<0.01
		09-07-88	--	131	--	--	--	--	--
		06-02-89	--	140	--	0.44	--	<0.20	--
		09-08-89	--	188	--	2.80	<0.01	0.30	--
		06-02-90	--	157	--	0.80	<0.01	0.40	--
		09-05-90	--	202	--	14.0	0.03	0.90	--
		06-06-91	--	158	<0.01	0.47	<0.01	<0.20	<0.01
		09-06-91	--	150	--	--	--	--	--
		09-06-91	--	--	<0.01	1.70	0.02	0.20	<0.01
		06-05-92	--	--	<0.01	0.50	0.03	<0.20	0.04
		06-05-92	--	148	--	--	--	--	--
		09-10-92	--	149	<0.01	1.70	0.02	<0.20	0.09
		06-04-93	<1	143	<0.01	0.51	0.02	<0.20	0.10
		09-10-93	<1	133	<0.01	2.80	0.01	<0.20	0.11
		06-03-94	<1	150	<0.01	0.59	0.02	<0.20	0.12
		09-09-94	<1	152	<0.01	3.70	0.04	<0.20	0.16
		10-28-94	<1	252	<0.01	9.40	<0.02	0.30	0.15
		06-04-95	<1	147	<0.01	1.00	0.04	<0.20	0.22
		07-27-95	<1	150	<0.01	5.90	0.04	<0.20	0.22
		11-07-95	<1	143	<0.01	2.50	<0.02	<0.20	0.22
440657110402601		06-02-89	--	--	--	--	--	--	--
		06-06-91	--	197	<0.01	<0.05	<0.01	<0.20	<0.01
		09-06-91	--	199	--	--	--	--	--
		09-06-91	--	--	<0.01	0.07	0.01	<0.20	<0.01
		06-05-92	--	200	<0.01	0.07	0.03	<0.20	0.01
		09-11-92	--	196	<0.01	0.06	<0.01	<0.20	0.01
		06-04-93	--	195	<0.01	0.06	0.03	<0.20	0.01
		09-10-93	--	185	<0.01	0.06	0.01	<0.20	0.01
		06-03-94	--	192	--	--	--	--	--
		09-09-94	--	195	<0.01	0.08	0.03	<0.20	0.01
		06-04-95	--	199	1.00	0.06	0.04	<0.20	0.02
		07-27-95	<1	188	<0.01	0.07	0.05	<0.20	0.02
440659110402001		11-07-95	<1	194	<0.01	0.06	<0.02	<0.20	<0.01
		06-02-89	--	--	--	--	--	--	--
		06-02-90	--	177	--	--	--	--	--
		09-06-90	--	200	--	--	--	--	--
		06-06-91	--	171	<0.01	0.05	0.01	0.20	<0.01
		09-06-91	--	--	<0.01	0.09	<0.01	<0.20	<0.01
		06-05-92	--	171	<0.01	0.09	0.05	0.20	0.01
		09-11-92	--	169	<0.01	0.09	0.02	<0.20	0.01
		06-04-93	--	168	<0.01	0.09	0.02	<0.20	0.01
		09-10-93	--	158	<0.01	0.09	0.02	<0.20	0.02

QUALITY OF GROUND WATER

TETON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	GEO- LOGIC UNIT	LOCAL IDENT- I- FIER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)
440659110402001	111ALVM	48-115-21bb01		09-09-94	0915	11.76	--
				06-04-95	0930	7.06	--
				07-27-95	1000	7.47	--
				11-07-95	1115	9.49	--
440701110402501	111ALVM	48-115-16cc01		06-02-89	1055	21.50	27.10
				09-08-89	1045	22.58	27.10
				06-02-90	1242	24.13	27.10
				09-05-90	1530	24.06	27.10
				06-06-91	1140	22.58	27.10
				09-06-91	1300	23.41	27.10
				06-05-92	1200	E26.00	27.10
				06-04-95	1100	22.52	27.10
				07-27-95	1115	21.61	27.10

STATION	NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
440659110402001		09-09-94	394	7.7	16.0	--	4.6	61
		06-04-95	403	7.8	16.0	--	4.5	60
		07-27-95	404	7.7	16.0	--	4.6	62
		11-07-95	397	7.8	15.5	595	4.1	53
440701110402501		06-02-89	299	7.6	11.0	--	--	--
		09-06-91	0	0	0.0	--	--	--
		06-04-95	340	7.7	9.5	--	8.8	117
		07-27-95	403	7.5	13.0	--	8.6	116

STATION	NUMBER	DATE	STREP- TOCOCCEI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
440659110402001		09-09-94	--	165	<0.01	0.10	0.02	<0.20	0.01
		06-04-95	--	165	--	--	--	--	--
		07-27-95	K1	148	<0.01	0.11	0.05	<0.20	0.02
		11-07-95	<1	168	<0.01	0.12	<0.02	<0.20	0.01
440701110402501		06-02-89	--	156	--	0.88	--	<0.20	--
		06-04-95	K6	181	--	--	--	--	--
		07-27-95	<1	207	<0.01	0.52	0.03	<0.20	0.02

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
inch (in.)	2.54×10^1	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
<i>Area</i>		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
<i>Volume</i>		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
<i>Flow</i>		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
<i>Mass</i>		
ton (short)	9.072×10^{-1}	megagram or metric ton

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

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